

1-45 to Class B -

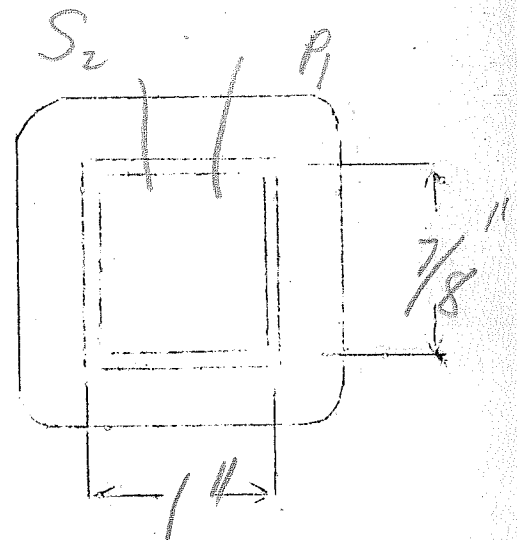
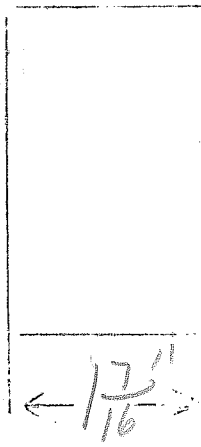
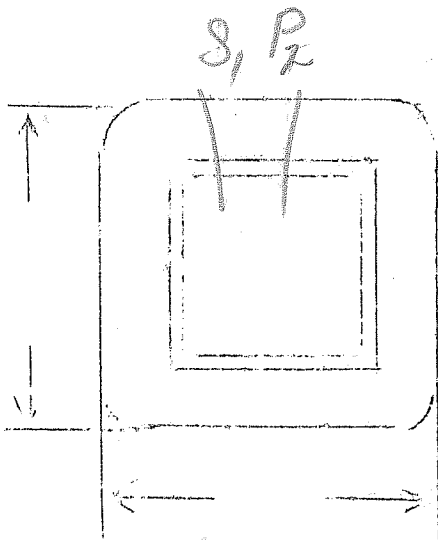
RATIO 1-1

list # 280
3.00

506

SPEC. NO.

Winding	PRI	SEC				
Turns	3600	3600				
Taps	NONE	NONE				
Wind. Lgth.	1 1/4	1 1/4				
Wire Size	37	37				
T.P.L.	225-16	225-16				
Kind Term.	NO 20 PER	NO 20 PER				
Term. Lgth.	9"	9"				
Layer Insul.	20#62	20#62				
Wrapper	2L003VP	2L005BA				
TUBE	4L007		IMPREGNATION		WAX	
CURE	1 X 3/8 NW					



POWER:

NEW STOCK

117V @ 5% ~ to:

730V C.T. @ 300 m.a.

5V @ 2amps 5V @ 6amps

12.6V C.T @ 5amps

SPEC. NO. T 506

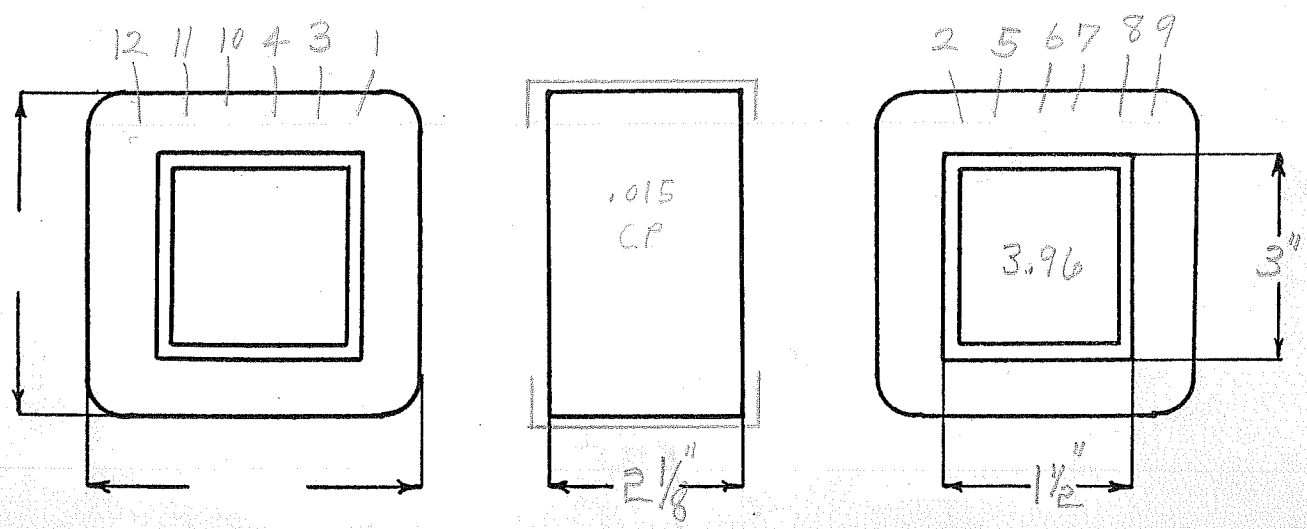
Winding	1-2-3	SHIELD	4-5	6-7	8-9	10-11-12	
	SEC		PRIM.	FIL.#1	FIL.#2	FIL.#3	
Turns	1140	1	175	8	8	20	
Taps	570	—	—	—	—	10	
Wind. Lgth.	1 7/8	1 7/8	1 7/8	15/16	15/16	1 7/8	
Wire Size	#27	0.002 cu	#17	#20	#15	#16	
T. P. L.	114-10L	—	35-5L	8 - 1/2 L	8 - 1/2 L	20-1L	
Finish	93.5%	—	87.5%	25%	44%	56%	
Pitch	#22	—	W.O.	W.O.	W.O.	W.O.	
Type Lead	DULAC	Sil Br.	Sleeve	Sleeve	Sleeve	Sleeve	
Lead Lgth.	Cut 14"	3"	Cut 14"	Cut 14"	Cut 14"	Cut 14"	
Layer Insul.	30#	—	1L005GA	—	—	—	
Test Volt.	2500	—	1500	2500	2500	2500	
Wrapper	2L005VC	1L005VC	2L007GA	2L007GA	—	2L005GA	

TUBE 6 L 010 BK + 1L005VC IMPREGNATION Varnish

CORE 1 1/2 X 3 GA. 24 GRADE D EASTERN STANDARD STACK 2 X 2

MOUNTING A, N

W_n = 88%



DESIGNED BY AL SHASKY

DATE 26-7-49

DESIGN AND TEST DATA

Rating:

$$I_a = .9 \times 300 = 270 \text{ m.a.}$$

Sec V.A. = 258

Pri. V.A. = 322

$I_p = 2.75 \text{ amps}$

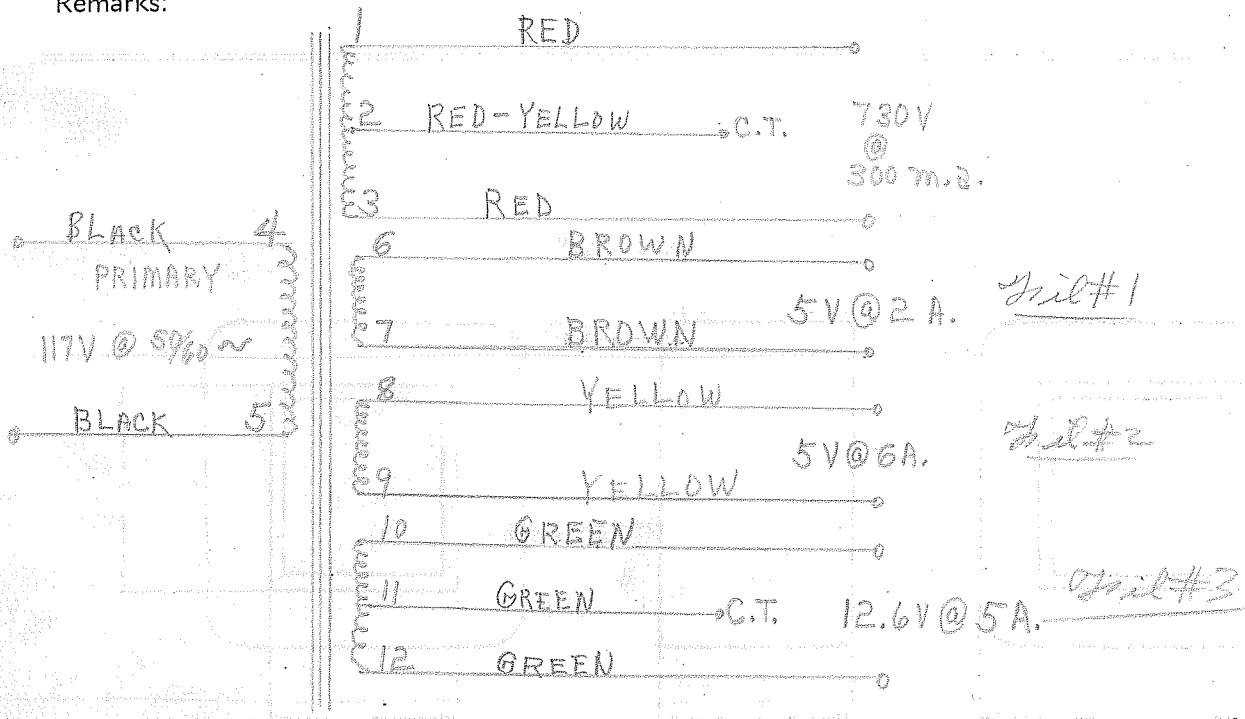
Winding	SEC.	SHIELD	PRIM.	FIL#1	FIL#2	FIL#3.
Mean Turn	10.05	—	11.81	13.10	13.10	13.62
Resistance 25° c	50.2	—	0.89	0.091	0.0285	0.093
Pounds Copper	0.595	—	1.082	0.0274	0.087	0.180
Copper Density	747	—	744	511	543	517
Ratio Volts	OPEN CIRCUIT	—	117	5.35	5.35	13.38
	FULL LOAD	—	117	5.06	5.07	12.64
Test to Ground	2500	—	1500	2500	2500	2500

Iron Induction 11.8 Kg @ 50 Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles on _____ with _____ grounded

Remarks:



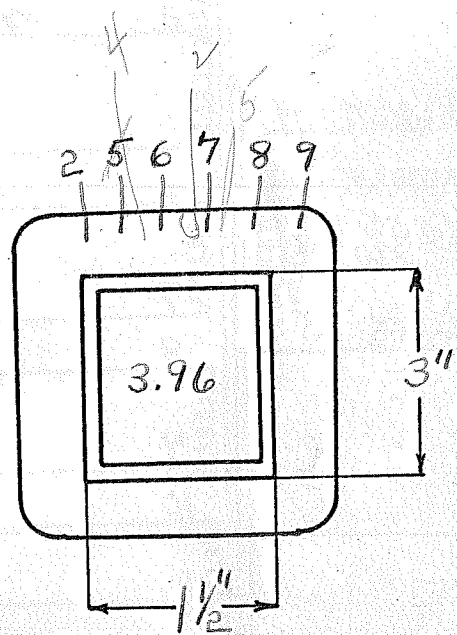
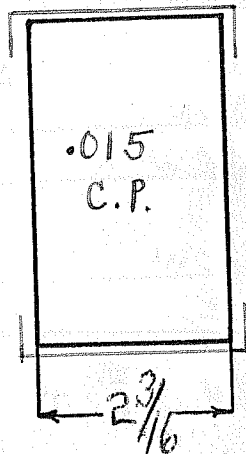
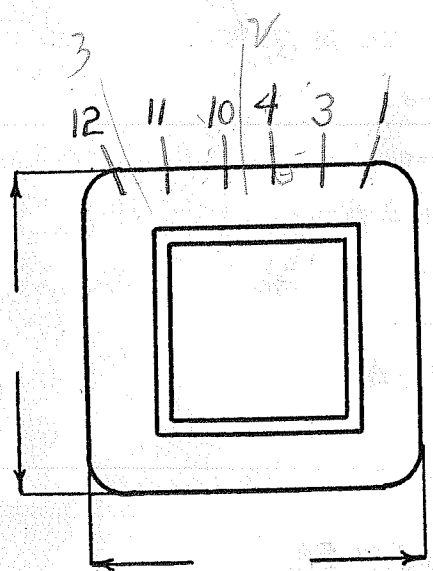
NEW STOCK

POWER 8
 117V @ 50/60 ~ T0:
 730V C.T. @ 300 ma.
 5V @ 2A. 5V @ 6A.
 12.6V C.T. @ 5A.

SPEC. NO. T 506

Winding	1-2-3 SEC.	SHIELD	4-5 PRIM	6-7 FIL #1	8-9 FIL #2	10-11-12 FIL #3
Turns	1140	1	175	8	8	20
Taps	570	—	—	—	—	10
Wind. Lgth.	1 7/8	1 7/8	1 7/8	15/16	15/16	1 7/8
Wire Size	#27	0.002 cu.	#17	#20	#15	#16
T. P. L.	114-10L	—	35-5L	8-1/2L	8-1/2L	20-1L
Finish	93%	—	87.5%	25%	44%	56%
PITCH	#22	—	w.o.	w.o.	w.o.	w.o.
Type Lead	DULAC	SIL. BR.	sleeve	sleeve	sleeve	sleeve
Lead Lgth.	cut 14"	3"	cut 14"	cut 14"	cut 14"	cut 14"
Layer Insul.	30#	—	1L005GA	—	—	—
Test Volt.	2500	—	1500	2500	2500	2500
Wrapper	2L005VC	1L005 VC	2L007GA	← 2L007GA. →		2L005GA.
TUBE	6L010 GK + 1L005 VC			IMPREGNATION		VARNISH
CORE	1 1/2 X 3		GA. 24	GRADE D EASTERN STANDARD		STACK 2 X 2
MOUNTING	A, N					

$W_n = 88\%$



DATE

DESIGN AND TEST DATA

Rating: $I_s = 0.9 \times 300 = 270 \text{ m.a.}$

Sec. VA = 258

Pri. VA = 322

$I_p = 2.75 \text{ AMPS}$

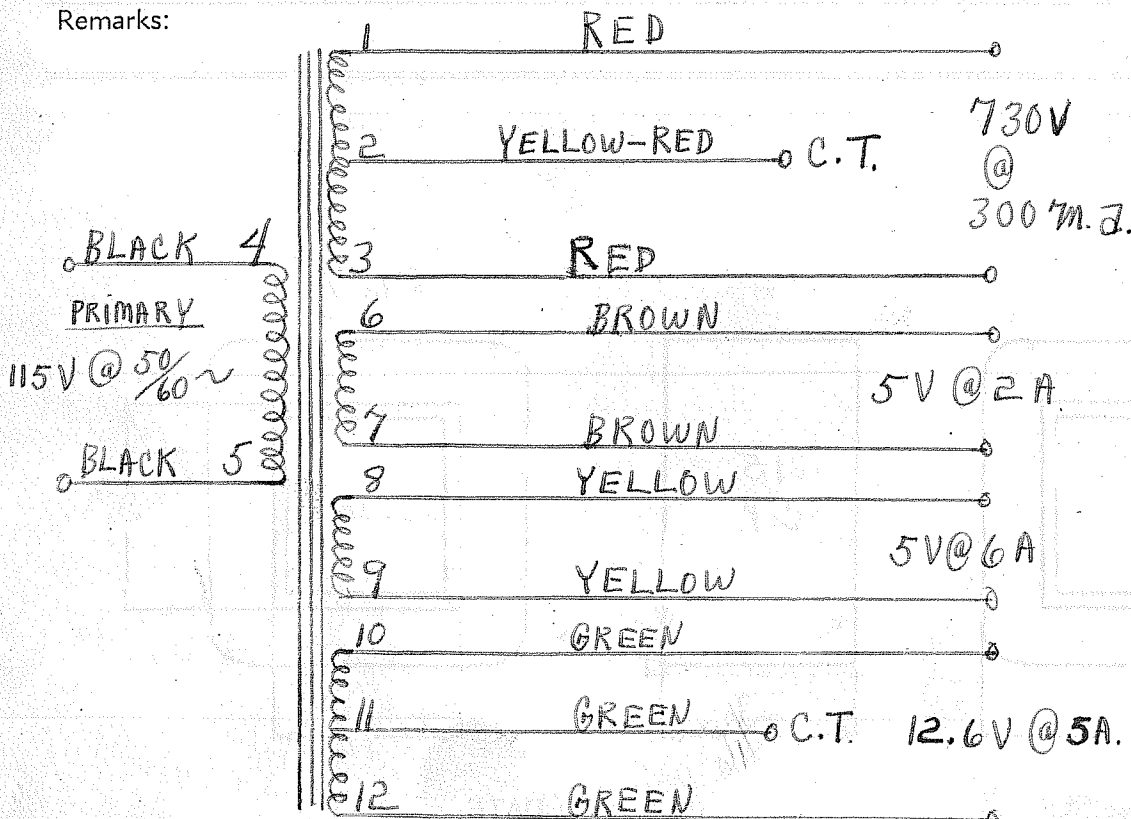
Winding	SEC	SHIELD	PRIM	FIL #1	FIL #2	FIL #3
Mean Turn	10.05"	—	11.81"	13.10"	13.10"	13.62"
Resistance 25° c	50.2	—	0.89	0.091	0.0285	0.093
Pounds Copper	0.595	—	1.082	0.0274	0.087	0.180
Copper Density	747	—	744	511	543	517
OPEN CIRCUIT Ratio Volts	762	—	117	5.35	5.35	13.38
LOAD	731	—	117	5.06	5.07	12.64
Test to Ground	2500	—	1500	2500	2500	2500

Iron Induction $11.8 \text{ Kg @ } 50$ Cycles

Exciting Current $230 \text{ mg amperes @ } 115$ volts 60 cycles on

Induced Test: Apply _____ Volts at _____ Cycles on _____ with _____ grounded

Remarks:

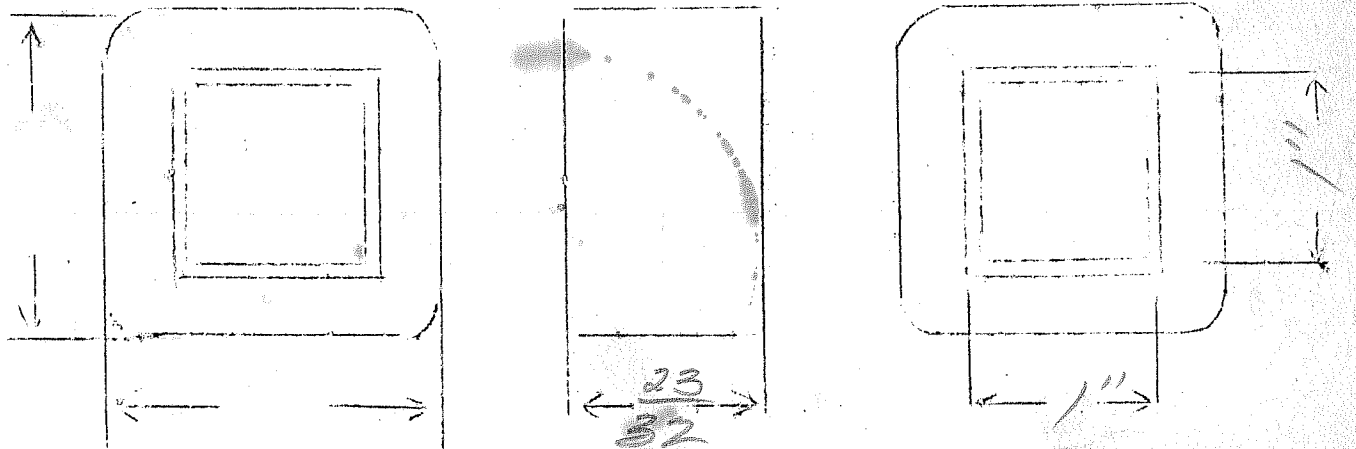


SPEC. NO. 005

Winding	PRI	SEC.				
Turns	4500	3000				
Taps	NONE	NONE				
Wind. Lgth.	1/2	1/2				
Wire Size	40#	37#				
T.P.L.	125	88				
Kind Term.						
Term. Lgth.						
Layer Insul.	166(C)	166(C)				
Wrapper	240031A	240056A				

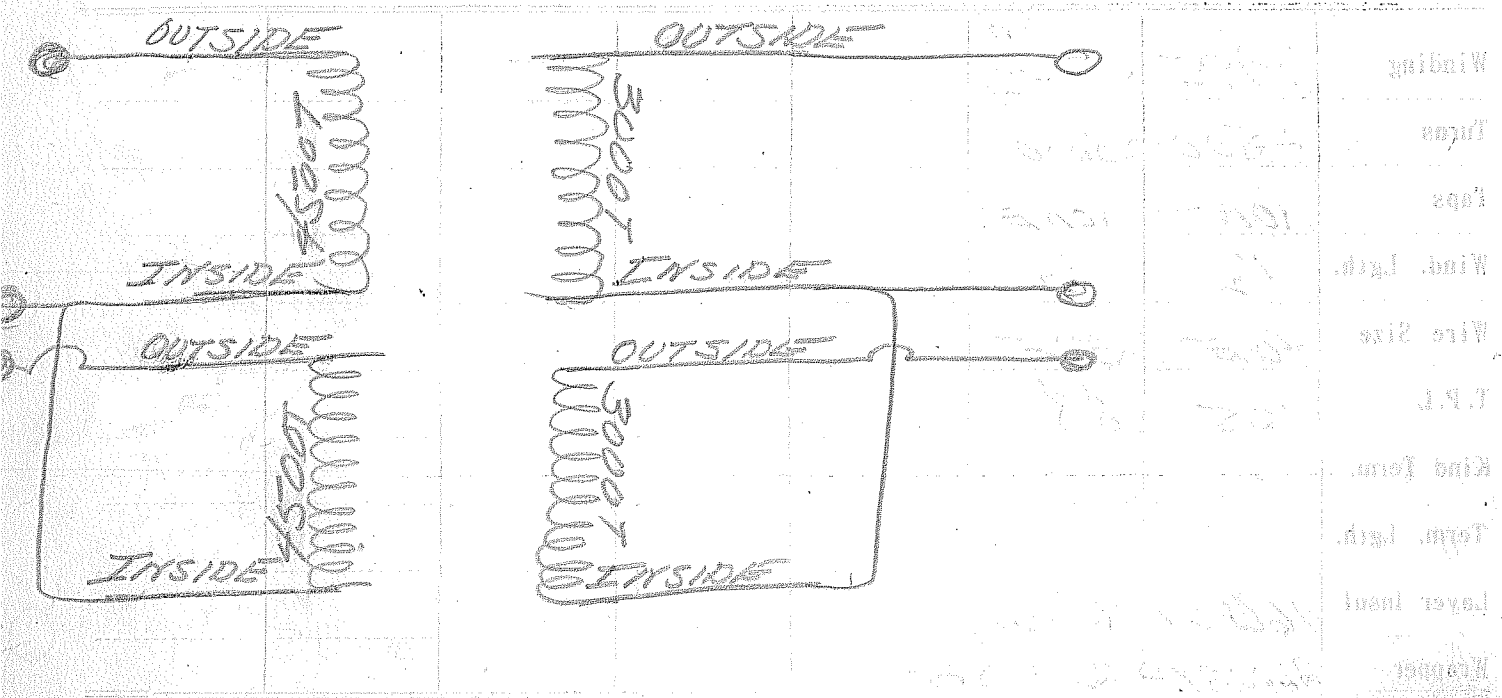
TUBE | 7L007 | IMPREGNATION | Max
 CURE | 1" x 1" NYN

SEE OTHER SIDE FOR ASSEMBLY INFORMATION

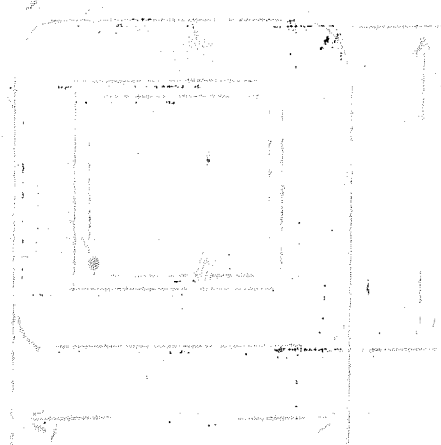
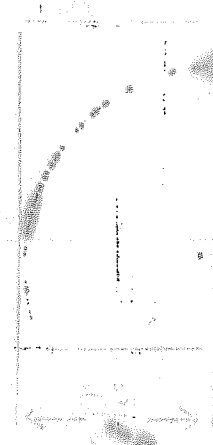
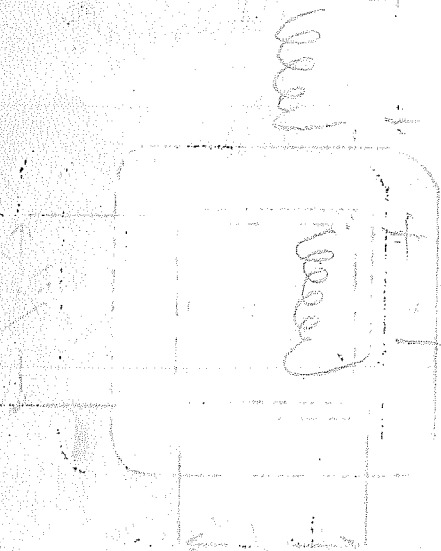


2 COILS ASSEMBLED REVERSE DIRECTION

PR. 1.50 .0V .001 SEC.



INTEGRATION



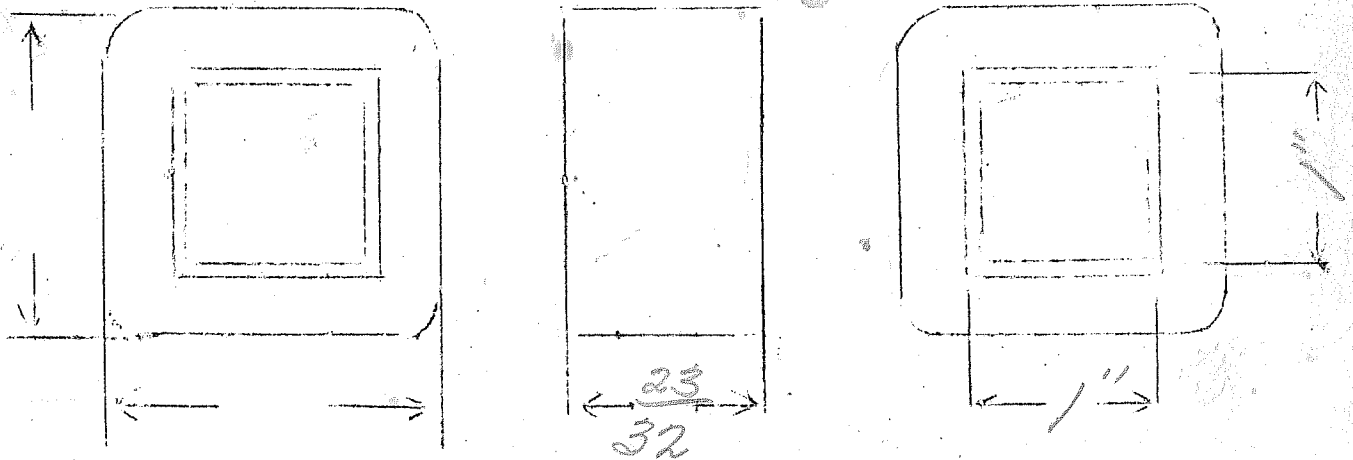
SPEC. NO. 504

Winding	<i>PRI</i>	<i>SEC</i>				
Turns	<i>4500</i>	<i>3000</i>				
Taps	<i>NONE</i>	<i>NONE</i>				
Wind. Lgth.	<i>1/2</i>	<i>1/2</i>				
Wire Size	<i>40E</i>	<i>37E</i>				
T.P.L.	<i>125</i>	<i>88</i>				
Kind Term.						
Term. Lgth.						
Layer Insul.	<i>16607</i>	<i>16607</i>				
Wrapper	<i>2L0031R</i>	<i>2L0056A</i>				

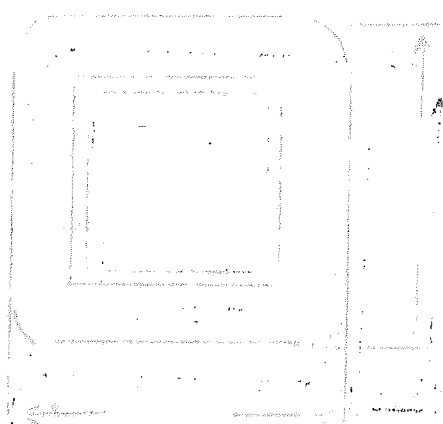
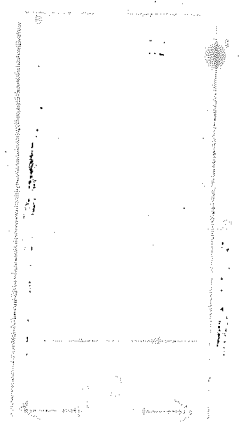
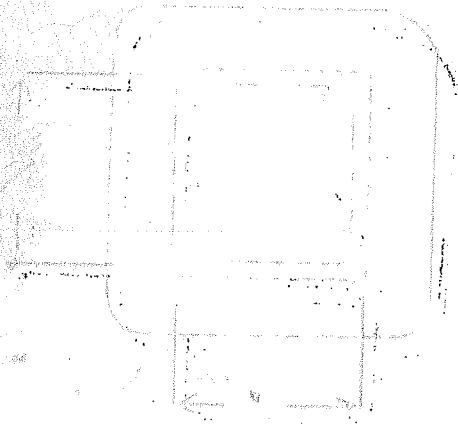
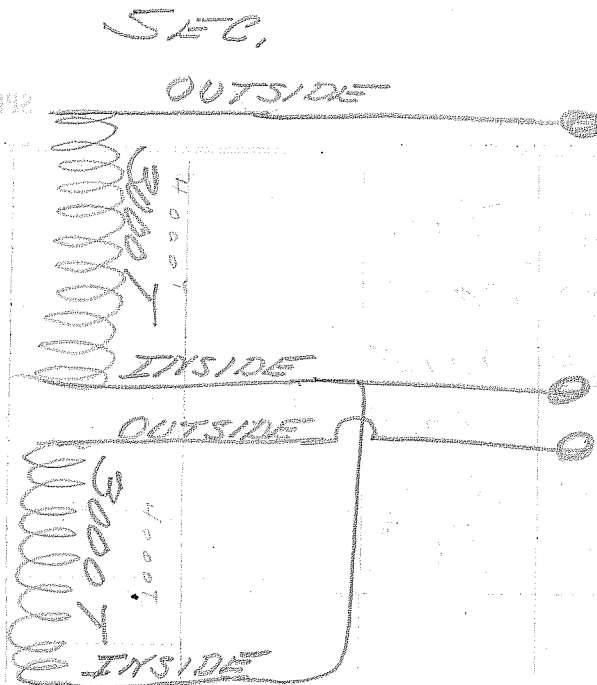
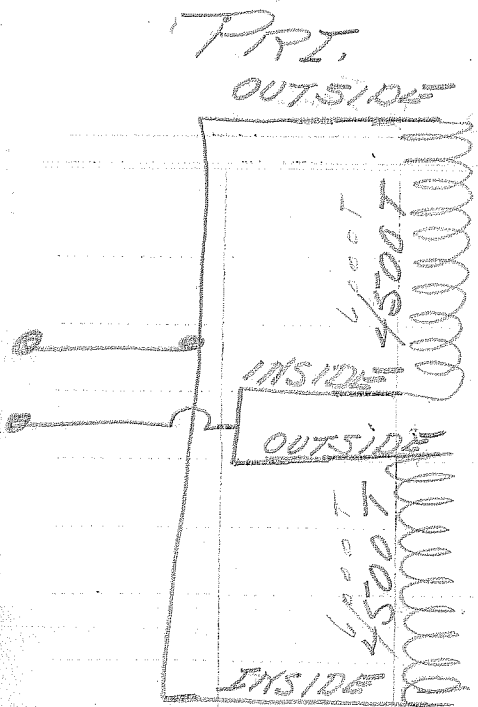
TUBE | *7L007* | IMPREGNATION | *MAX.*

CURE | *1 1/2" MIN* | *Grade A Anneal*

SEE OTHER SIDE FOR ASSEMBLY INFORMATION



TWO COILS TO BE ASSEMBLED IN REVERSE



117V @ 50/60 Hz to

1734VC.T @ 260ma.

5V @ 6a

6.3V @ 9a

6.3V @ 1.2a tuned @ 5 V @ 2a

DESIGN AND TEST DATA

SPEC. NO. T 504

Winding	1-2-3		4-5	6-7	8-9	10-11-12	
	Sec	Shield	Pri	fil #1	fil #2	fil #3	
Turns	1270	1	193	11	9	11	
Taps	635		—	—	—	9	primary
Wind. Lgth.	1 7/8	1 7/8	1 7/8	1 7/8	15/16	15/16	
Wire Size	#28	.002 cu	#18	#13	#15	#20	
T. P. L.	127-10L	—	39-5L	11-1L	9-1/2L	11-1/2L	est. estimated
Finish	92.3%	—	87%	43.5%	50%	28%	founder copper
Type Lead	#22 Dulac	slit. Br.	w.o. sleeve	w.o. sleeve	w.o. sleeve	w.o. sleeve	
Lead Lgth.	cut 14"	3"	cut 14"	cut 14"	cut 14"	cut 14"	
Layer Insul.	30#	—	Double 50#	—	—	—	Rane Yelle
Test Volt.	2500	—	1500	1500	2500	2500	Test to ground
Wrapper	2L005VC	1L005VC	2L0076A	3L0056A		3L0056-A	

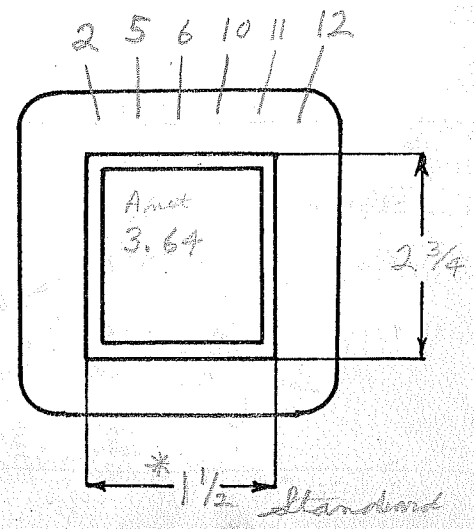
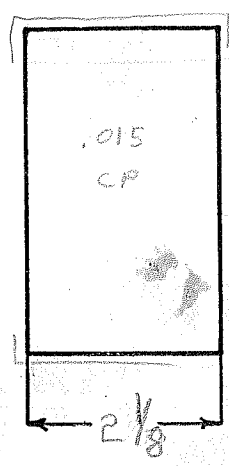
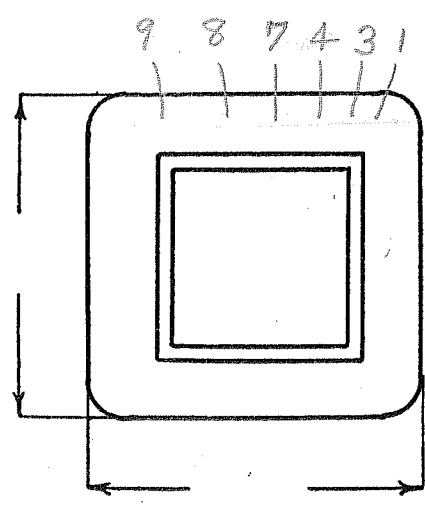
TUBE 6L 010 GA + 1L005VC IMPREGNATION varnish

CORE 1 1/2" * X 2 3/4" GA. 24 GRADE D STACK 2 X 2

MOUNTING A, N

wr = 87%

* Use 1 1/2" Standard Laminations



DESIGN AND TEST DATA

Rating:

$I_s = 19 \times 260 = 239 \text{ ma}$

Sec VA = 235

Pr VA = 293

$I_f = 2.50$

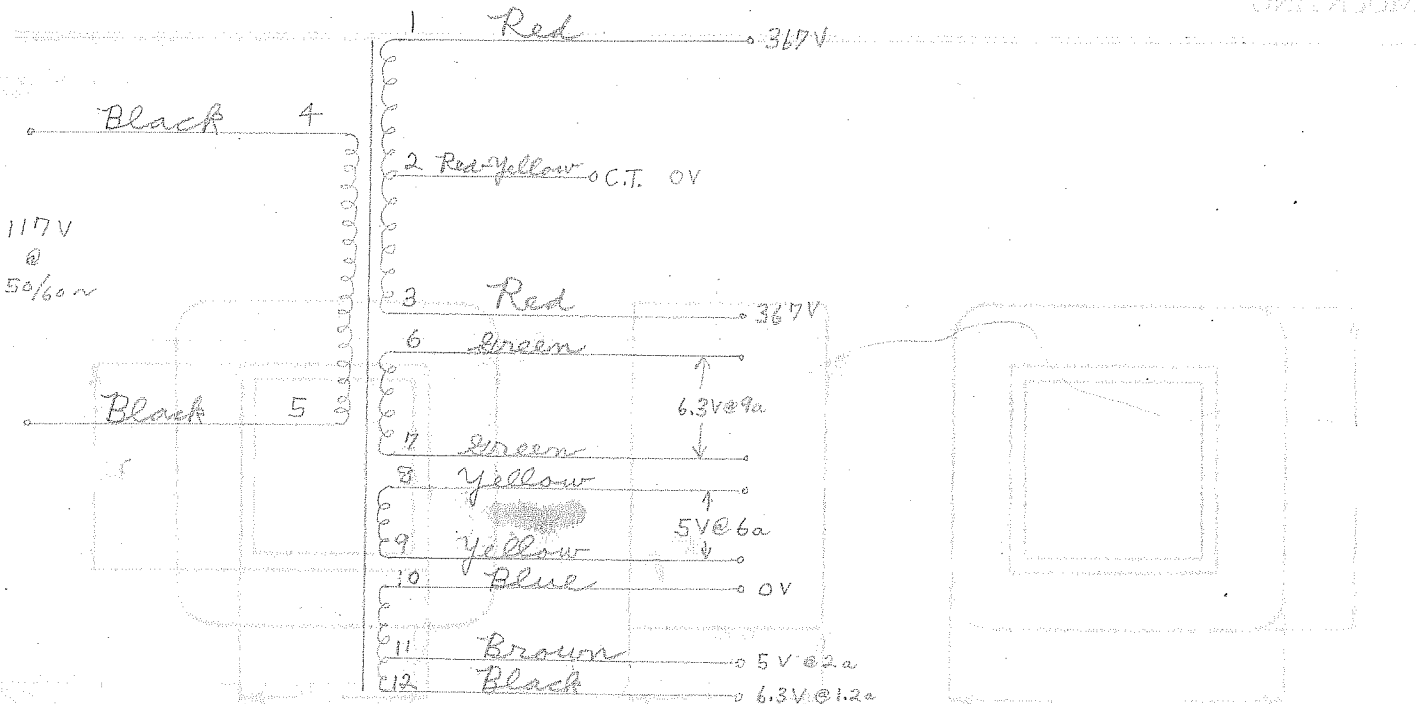
Winding	Sec	Shield	Tri	Fil #1	Fil #2	Fil #3	
Mean Turn	9.61	—	11.16	12.40	12.96	12.96	
Resistance 25° c	67.5	—	117.5	102.32	103.16	112.3	
Pounds Copper	.501	—	.900	.180	.0968	.0372	
Copper Density	681	—	650	575	545	511	
Ratio Volts <i>Open Ckt</i>	770	—	117	6.66	5.45	6.66-5.45	
<i>Load</i>	735	—	117	6.29	5.15	6.35-5.08	
Test to Ground	2500	—	1500	1500	2500	2500	

Iron Induction 16.6 Kev @ 50 Cycles

Exciting Current 165 milli amperes @ 117 volts 60 cycles on 4-5

Induced Test: Apply _____ Volts at _____ Cycles on _____ with _____ grounded

Remarks:



117 V. @ 50/60 ~ TO:
 734V C.T. @ 2.60 ma.
 5V @ 6A 6.3V @ 9A.
 6.3V @ 1.2A Tapped @ 5V @ 2A.

SPEC. NO. T 504

REPLACEMENT FOR R.C.A. 201T9 & 201T10

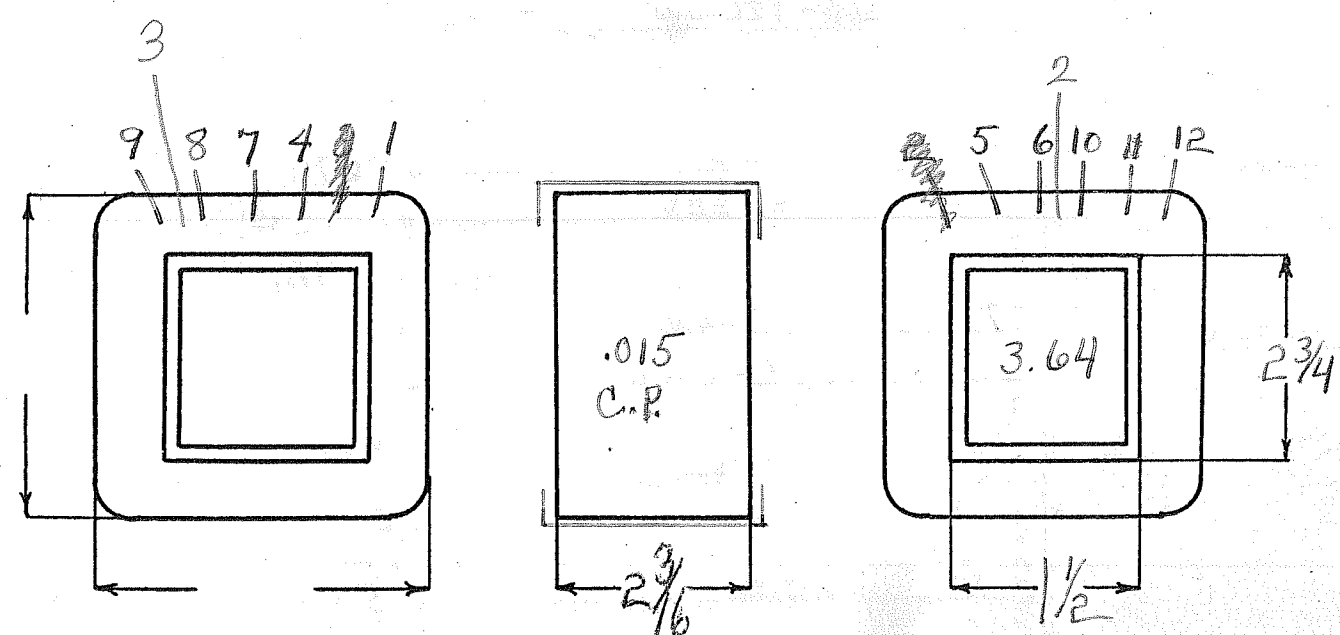
Winding	1-2-3 SEC.	SHIELD	4-5 PRI.	6-7 FIL #1	8-9 FIL #2	10-11-12 FIL #3	
Turns	1270	1	193	11	9	11	
Taps	635	—	—	—	—	9	
Wind. Lgth.	1 7/8	1 7/8	1 7/8	1 7/8	15/16	15/16	
Wire Size	#28	0.002 Cu	#18	#13	#15	#20	
T. P. L.	127-10L	—	39-5L	11-1L	9-1/2L	11-1/2L	
Finish PITCH	92.3%	—	87%	43.5%	50%	28%	
Type Lead	#22 DULAC	SIL. BR.	w.o. sleeve	w.o. sleeve	w.o. sleeve	w.o. sleeve	
Lead Lgth.	Cut 14"	3"	Cut 14"	Cut 14"	Cut 14"	Cut 14"	
Layer Insul.	40# 30#	—	DOUBLE 60#50#	—	—	—	
Test Volt.	2500	—	1500	1500	2500	2500	
Wrapper	1L005CA 2L005VC	1L003CA 1L60# 1L005VC	2L0076A	3L0056A	← 3L0056A. →		

TUBE 6L010GK + ~~1L005VC~~ ^{1L003CA} IMPREGNATION VARNISH

CORE ^{#1} 1/2 X 2 3/4 GA. 24 GRADE D STACK 2 X 2

MOUNTING A, N

$w_n = 87\%$ * USE 1 1/2" STANDARD LAMINATIONS



DESIGN AND TEST DATA

Rating: $I_s = 0.9 \times 260 = 234 \text{ m.a.}$

SEC V.A. = 235
 PRI. VA = 293
 $I_p = 2.50 \text{ A.}$

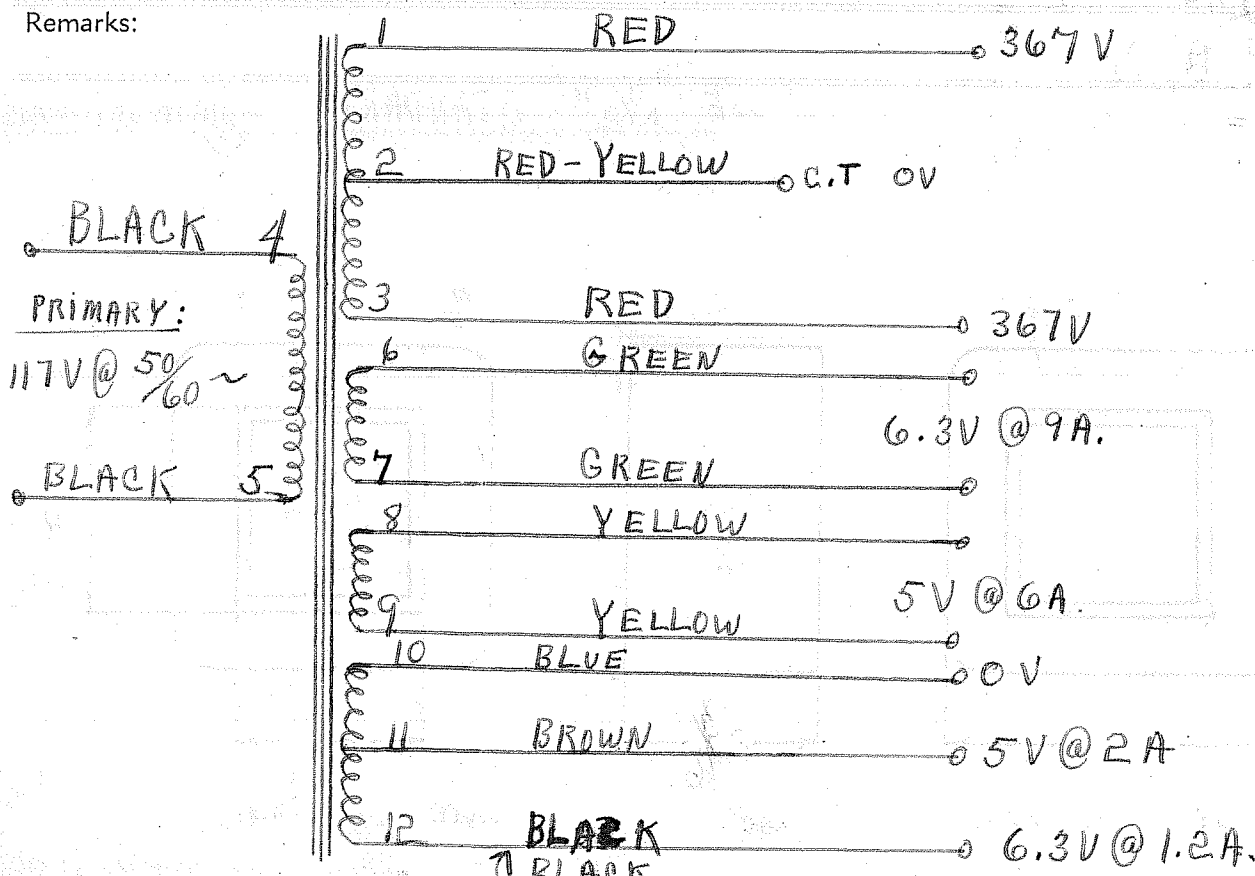
Winding	1-2-3 SEC	SHIELD	4-5 PRI	6-7 FIL#1	8-9 FIL#2	10-11-12 FIL#3
Mean Turn	9.61	—	11.16	12.40	12.96	12.96
Resistance 25° c	67.5	—	1.175	0.0232	.0316	0.123
Pounds Copper	.501	—	.900	.180	.0968	.0372
Copper Density	681	—	650	575	545	511
OPEN CIRCUIT Ratio Volts	770	—	117	6.66	5.45	6.66-5.45
LOAD	735	—	117	6.29	5.15	6.35-5.08
Test to Ground	2500	—	1500	1500	2500	2500

Iron Induction 11.6 kG @ 50 Cycles

Exciting Current 165 Milli amperes @ 117 volts 60 cycles on 4-5

Induced Test: Apply _____ Volts at _____ Cycles on _____ with _____ grounded

Remarks:



PLATE

STOCK

115 volts @ 50/60 cycles to
 4660V CT @ 300 Ma. DC (2000V DC)
 4100V CT @ 300 Ma. DC (1750V DC)
 3560V CT @ 200 Ma. DC (1500V DC) By taps in primary SPEC. NO. P473

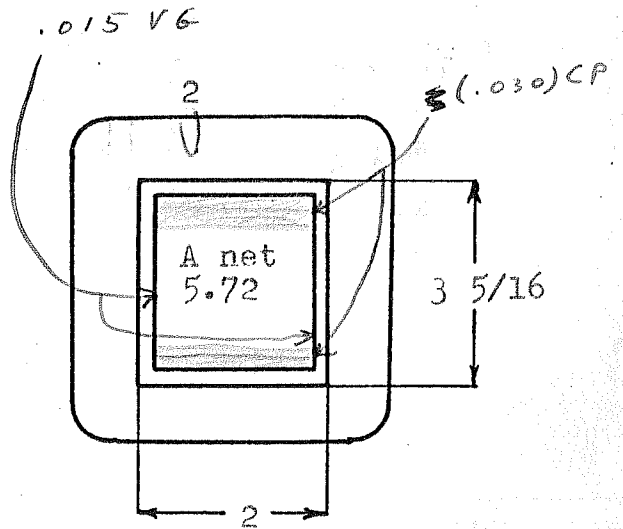
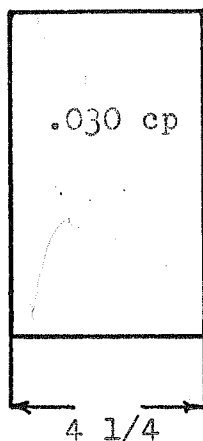
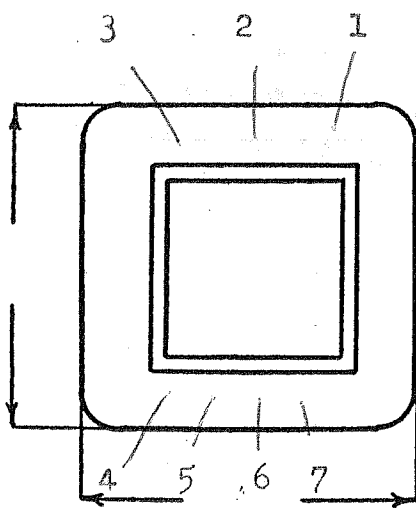
Winding		1-2-3 Sec.		4-5-6-7 Pri.		
Turns		6450		196		
Taps		13225		151 - 171		
Wind. Lgth.		3 5/8		3 5/8		
Wire Size		#27		#12		
T. P. L.		215-30L		40-5L		
Finish		90%		92%		
Type Lead		#20 Dulac		W.O.		
Lead Lgth.		6"		6"		
Layer Insul.		Double 40#		1L010 cp		
Test Volt.		8500		1500		
Wrapper	12030 CP	3L40# interleaved 3L007GA		4L007GA		

TUBE	12L007GK plus 2L007VC 1L010V6	IMPREGNATION	Double Varnish
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CORE	2 x 3 1/4	GA.	24	GRADE	D	STACK	2 x 2
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MOUNTING M

T.P.V. 1.3, 1.5, 1.65
 Window. $1.245 / 1.375 = 90.6\%$



DESIGNED BY F. Fratze

DATE

DESIGN AND TEST DATA

Rating: I sec. (rms) = 212 Ma. Sec. VA = HI 699 MED. 615 LOW 535
 Pri. VA = 845 744 647
 Pri. I = 7.36 6.47 5.63

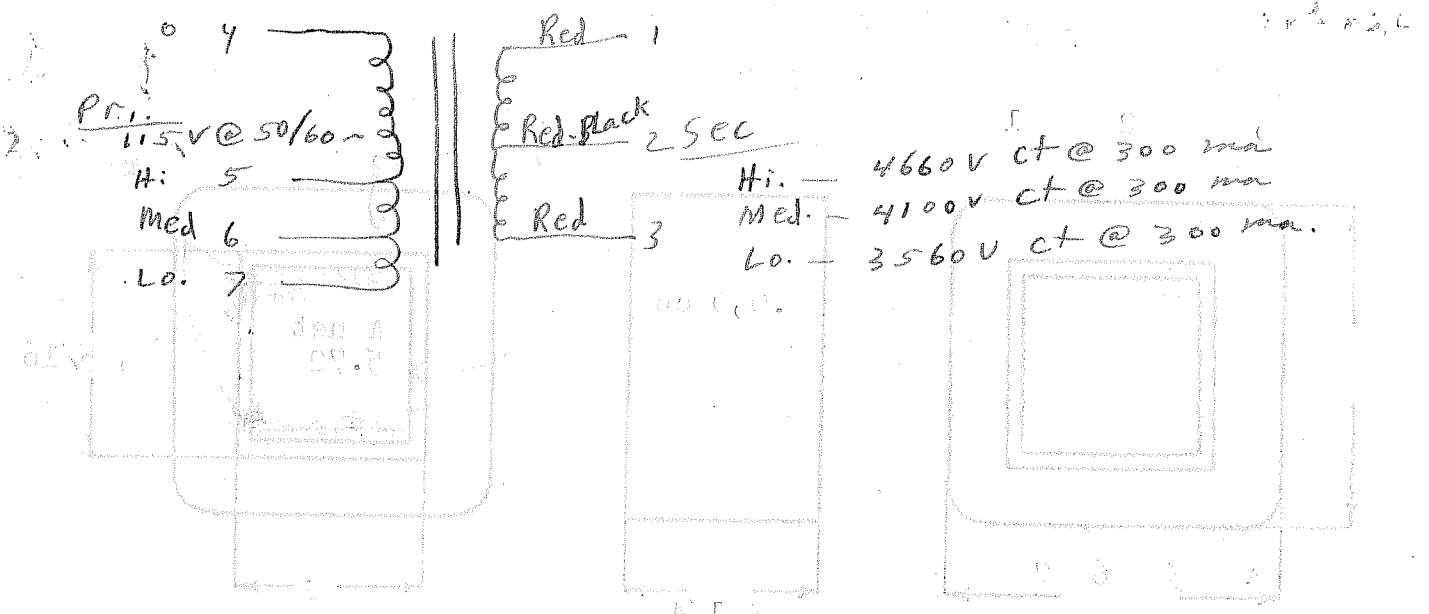
Winding		Sec.		Pri.	
Mean Turn		12.5		17.6	
Resistance 25° c		353		.36 - .41 - .47	
Pounds Copper		4.17		5.79	
Copper Density		950		887	
Ratio Volts	Lo 3594	MED. 4134	HI 4694	115	
Test to Ground		8500		1500	

Iron Induction 9.3 kg @ 50 Cycles with 115 V on 4-5

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles on _____ with _____ grounded

Remarks:



PLATE

STOCK

115 volts @ 50/60 cycles to
 3620 volts CT @ 350 Ma. DC (1500V DC) or
 3060 volts CT @ 350 Ma. DC (1250V DC)

SPEC. NO. P472

By tap in primary

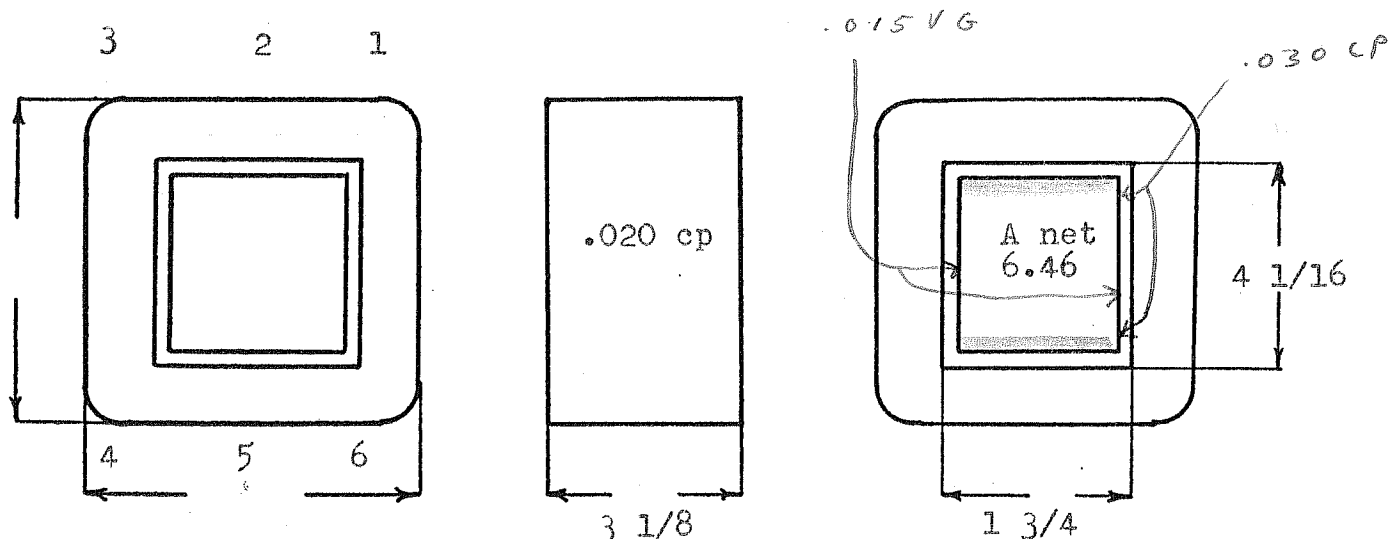
Winding	=	1-2-3			4-5-6		
	=	Sec.			Pri.		
Turns		4400			156		
Taps		2200			132		
Wind. Lgth.		2 5/8			2 5/8		
Wire Size		#27			#13		
T. P. L.		157-28L			32-5L		
Finish		91%			90%		
Type Lead		#22 Dulac			W.O.		
Lead Lgth.		6"			6"		
Layer Insul.		Double 40#			1L010CP		
Test Volt.		6000			1250		
Wrapper		2L007VC plus 2L40# interleaved 2L007GA	1L007VC + 1L015CP		3L007GA		

TUBE	12L007GK plus 2L005VC 1L010VG	IMPREGNATION	Double Varnish
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CORE 1 3/4 x 4 GA. 24 GRADE D STACK 2 x 2

MOUNTING M Pour with Tar

T. P. V. — 1.15, 1.35
 Window — 1.13/1.25 = 90.4%



DESIGNED BY F. Frazee

DATE 6-4-47

DESIGN AND TEST DATA

Rating: I sec. (rms) = $.707 \times 350 = 248$

	<u>HI</u>	<u>LO</u>
Sec. VA =	635	537
Pri. VA =	767	656
Pri. I =	6.68	5.71

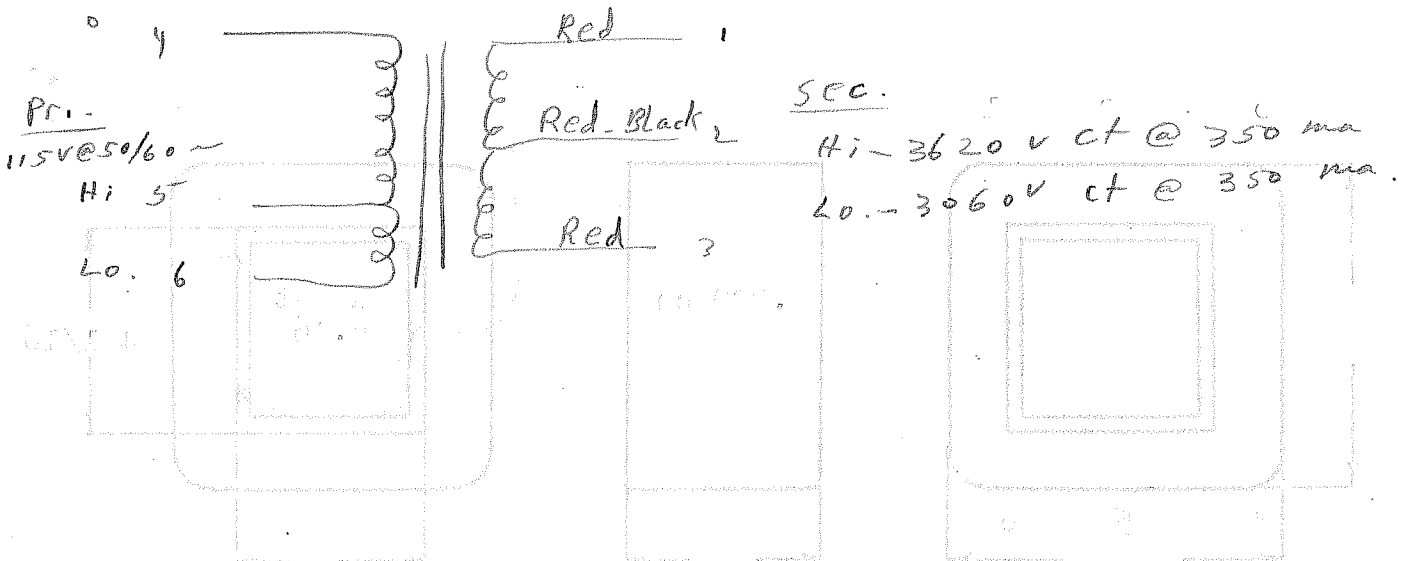
Winding		1-2-3 Sec.		4-5-6 Pri.	
Mean Turn		14.32		18.16	
Resistance 25° c		276		.411-.488	
Pounds Copper		3.26		3.78	
Copper Density		813		774 max.	
Ratio Volts	HI - 1915-1915 LO - 1620-1620			115	
Test to Ground		6000		1250	

Iron Induction 9.9 kg @ 50 Cycles

Exciting Current 383 milli amperes @ 115 volts 60 cycles on 4-5

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:



Television Tower

New Stock

117V @ 50/60 ~ to
 690V C.T. @ 190 ma
 5V @ 3a.
 6.3V @ 7.6a

AT&T TEST DATA **OBsolete**

SPEC. NO. T500

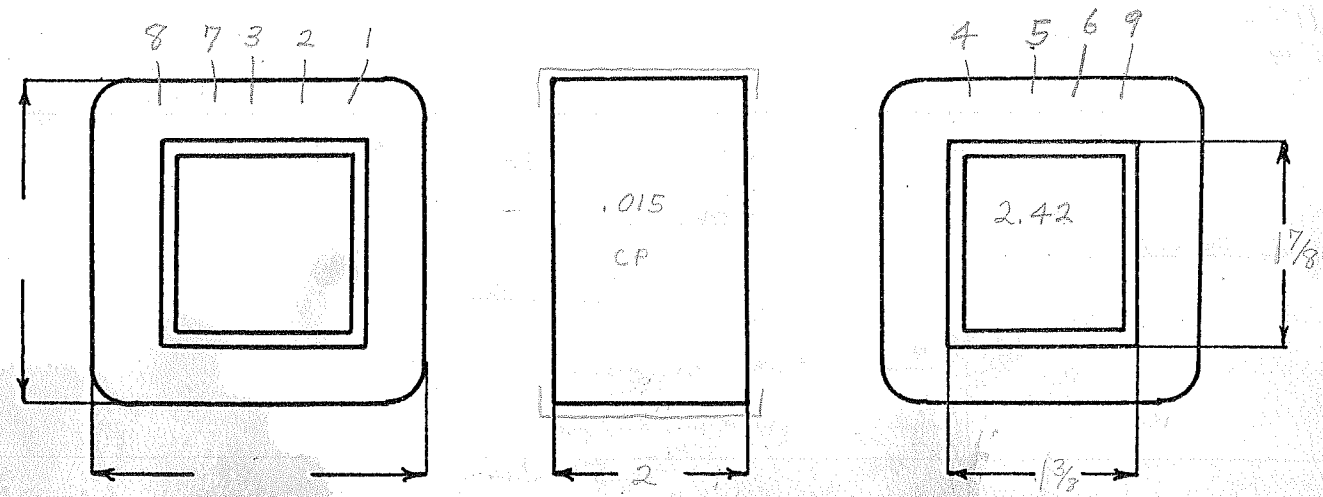
Winding	1-2-3		4-5	6-7	8-9		
	Sec	Shield	Pri	Shil #1	Shil #2		
Turns	1770	1	282	17	13		
Taps	885	—	—	—	—		pmbr/W
Wind. Lgth.	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4		
Wire Size	# 30	.002 cu	# 20	Double # 17	Double # 21		
T. P. L.	148 - 12L	—	47 - 6L	17 - 1L	13 - 1L		
Finish	92%	—	90%	91%	45%		
Type Lead	# 22 Dialac	Shil. Br.	w.o. sleeve	w.o. sleeve			
Lead Lgth.	cut 14"	3"	cut 14"	cut 14"	cut 14"		
Layer Insul.	30#	—	50#	—	—		
Test Volt.	2500	—	1500	1500	2500		
Wrapper	2L005VC	1L005VC	2L007GA	3L007GA	2L007GA		

TUBE 5L0106K+1L003VP IMPREGNATION Varnish

CORE 3/8 X 2 GA. 24 GRADE D STACK 2 X 2

MOUNTING A, N

wn = 88%



DESIGNED BY A. Hadley

DATE 7-7-49

DESIGN AND TEST DATA

Rating:

$$I_s = .9 \times 190 = 171 \text{ ma.}$$

$$\text{Sec VA} = 155.7$$

$$\text{Pri VA} = 196.5$$

$$I_p = 1.680 \text{ a}$$

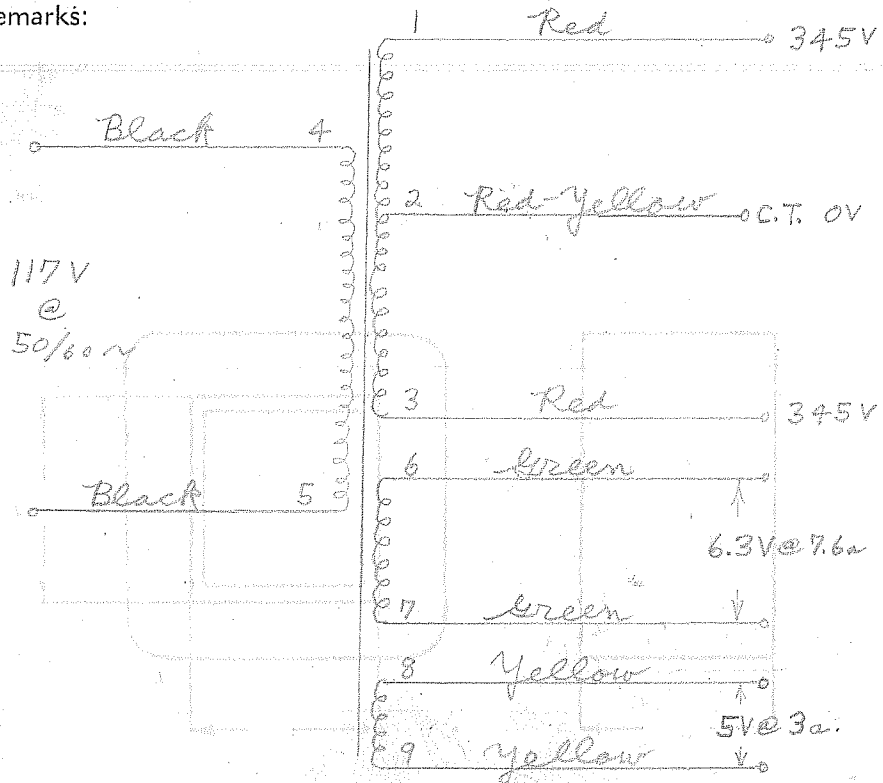
Winding	Sec	Shield	Pri	6.3v 7.6a Wire #1	5v 3a Wire #2	
Mean Turn	7.49	—	8.96	10.04	10.48	
Resistance 25° c	116	—	2.18	.0367	.0740	
Pounds Copper	.348	—	.670	.179	.0564	
Copper Density	589	—	610	540	540	
Ratio Volts	Open Circuit	—	117	7.06	5.40	
	Load	—	117	6.56	5.01	
Test to Ground	2500	—	1500	1500	2500	

Iron Induction 12.0 Kg @ 50 Cycles

Exciting Current 200 milli amperes @ 117 volts 60 cycles on 4-5

Induced Test: Apply 117 Volts at 50/60 Cycles on 0 with grounded

Remarks:



Power
117V @ 60 cycles
to
690VCT @ 190 ma
5V @ 3a
6.3V @ 7.6a

New stock

DESIGN AND TEST DATA

SPEC. NO. T 500

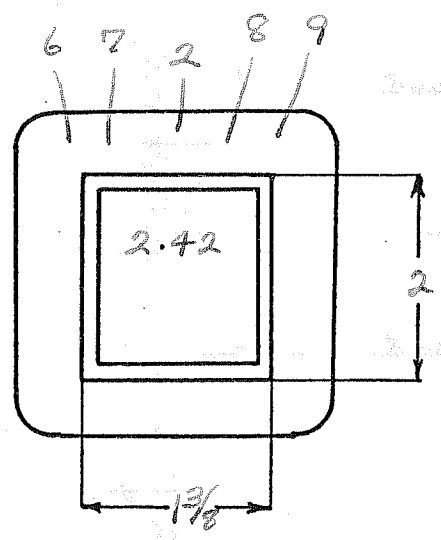
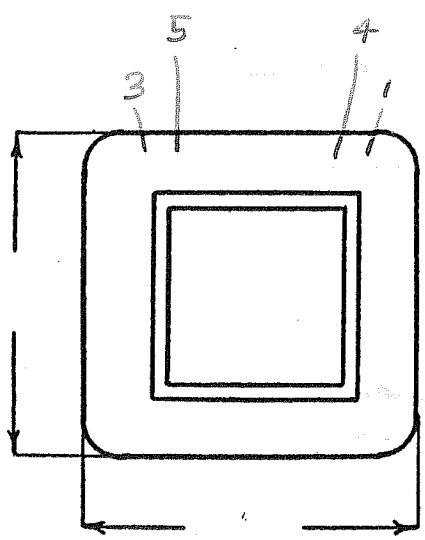
Winding	1-2-3		4-5	6-7	8-9		
	dec	dheld	Pri	Sec #1	Sec #2		
Turns	1480	1	240	11	14		
Taps	740	—	—	—	—		
Wind. Lgth.	1 ¹¹ / ₁₆	1 ¹¹ / ₁₆	1 ¹¹ / ₁₆	← 1 ¹¹ / ₁₆ →			
Wire Size	#28	.001cu	#19	#18	#15		
T. P. L.	106-14L	—	40-6L	11- ¹ / ₃ L	14- ² / ₃ L		
Finish Pitch	86%	—	89%	90%	90%		
Type Lead	#22 Dulac	#26 T.C.	#18 P.B.	w.o. sleeve	w.o. sleeve		
Lead Lgth.	cut 14"	3"	cut 14"	cut 14"	cut 14"		
Layer Insul.	40#	—	50#	—	—		
Test Volt.	2500	—	1500	2000	1000		
Wrapper	1L002CA 1L005VC	1L003CA	1L010CP	1L003CA 1L005GA			

TUBE 6L010GR+1L002CA IMPREGNATION Varnish

CORE 1³/₈ x 2 GA. 24 GRADE D STACK 2x2

MOUNTING A, N

w = 89%



RE-DESIGNED BY A. Hadley

DATE 6-1-50

DESIGN AND TEST DATA

Rating:

$I_s \approx 190 \text{ ma.}$

Sec VA = 156

Pri VA = 198

$I_p = 1.69$

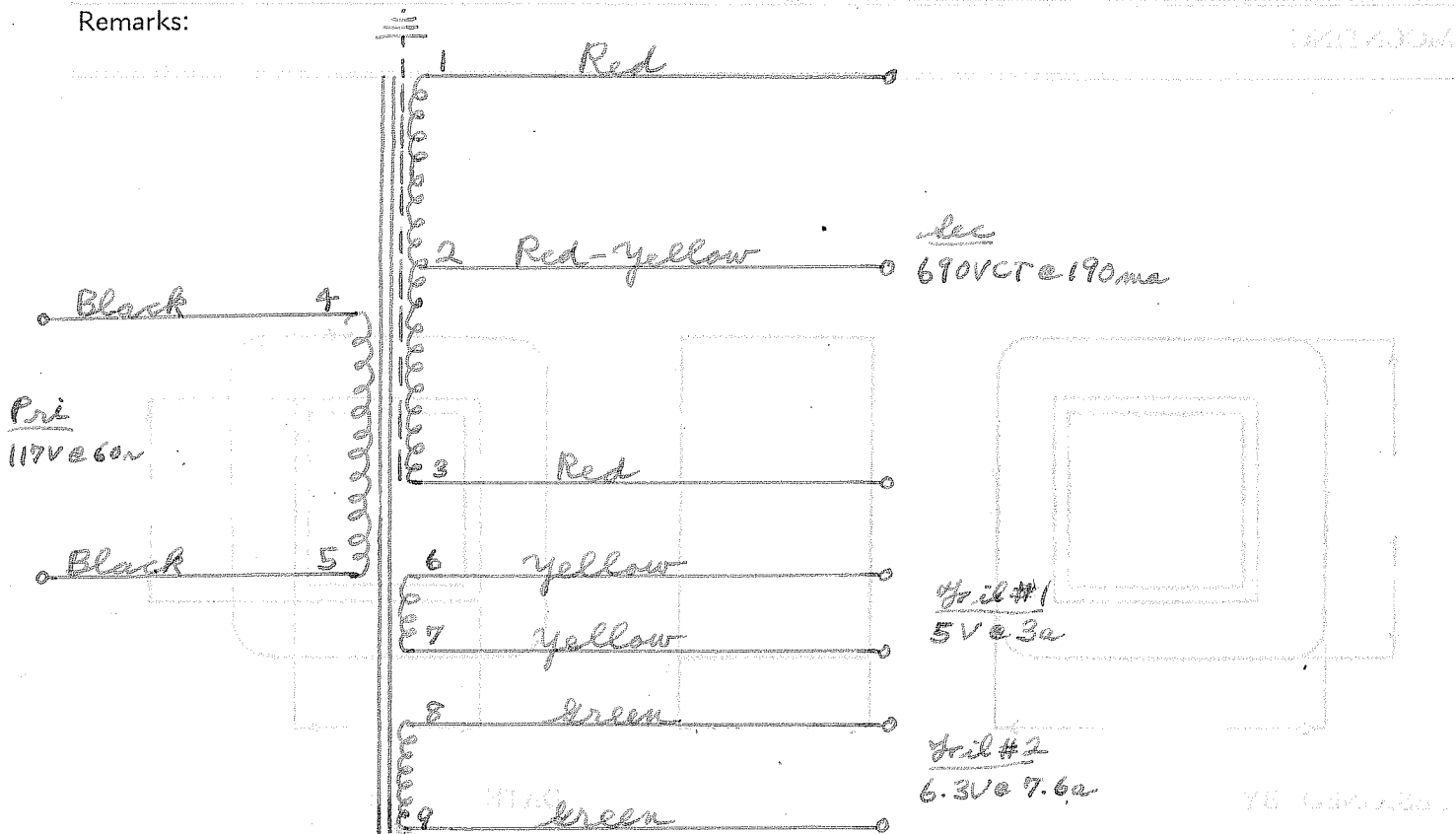
Winding	1-2-3		4-5	6-7	8-9		
	Sec	Shield	Pri	Tril #1	Tril #2		
Mean Turn	8.03	—	9.85	10.96	11.00		
Resistance 25° c	65.6	—	1.62	.0654	.0417		
Pounds Copper	.488	—	.778	.0501	.1280		
Copper Density	842	—	762	542	428		
Ratio Volts	open	—	117	5.37	6.82		
	load	—	117	5.04	6.34		
Test to Ground	2500	—	1500	2000	1000		

Iron Induction 11.7 kg @ 60 Cycles with 117V on 4-5

Exciting Current 320 milli amperes @ 117 volts 60 cycles on 4-5

Induced Test: Apply 117 Volts at 60 Cycles on 4-5 with grounded

Remarks:



New stock

Power
117V @ 60 cycles
to
690VCT @ 190 ma
5V @ 3a
6.3V @ 7.6a

ATAD TEST QWA NOISED

SPEC. NO. T 500

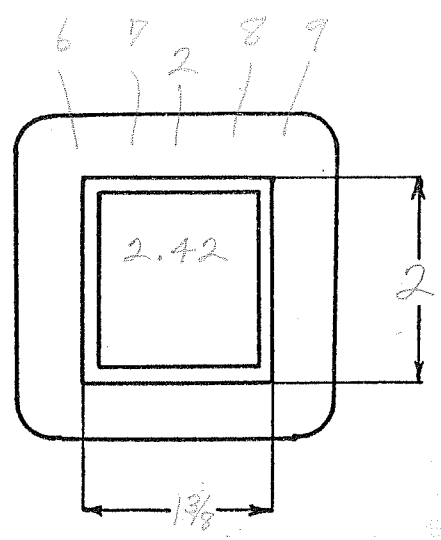
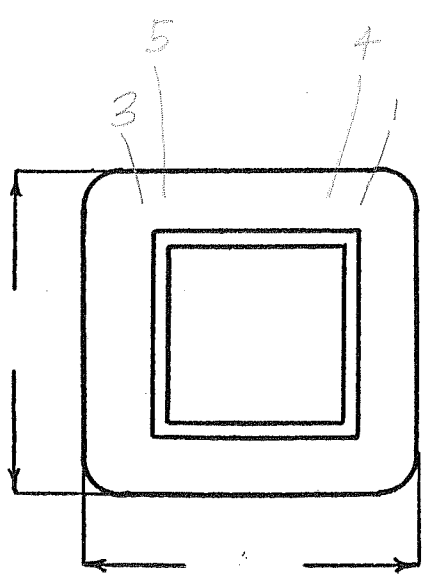
Winding	1-2-3 Sec	Shield	4-5 Pri	6-7 Til #1	8-9 Til #2		
Turns	1480	1	240	11	14		
Taps	740	—	—	—	—		
Wind. Lgth.	1 1/16	1 1/16	1 1/16	← 1 1/16 →			
Wire Size	#28	.001 cu	#19	#18	#15		
T. P. L.	106-14L	—	40-6L	11-1/2L	14-2/3L		
Finish	86%	—	89%	90%	90%		
Type Lead	#22 Pulse	fil. Br.	#18 P.P.	w.o. leave	w.o. leave		
Lead Lgth.	cut 14"	3"	cut 14"	cut 14"	cut 14"		
Layer Insul.	40#	—	50#	—	—		
Test Volt.	2500	—	1500	2000	1000		
Wrapper	1L002CA 1L005VC	1L003CA	1L010CP		1L003CA 1L015GA		

TUBE 6L010GK + 1L002CA IMPREGNATION Varnish

CORE 1 3/8 x 2 GA. 24 GRADE D STACK 2 x 2

MOUNTING A, N

wn = 89%



RE-DESIGNED BY A. Hadley

DATE 6-1-50

DESIGN AND TEST DATA

Rating:

$I_s \approx 190 \text{ ma}$

Sec VA = 156

Pri VA = 198

$I_p = 1.69$

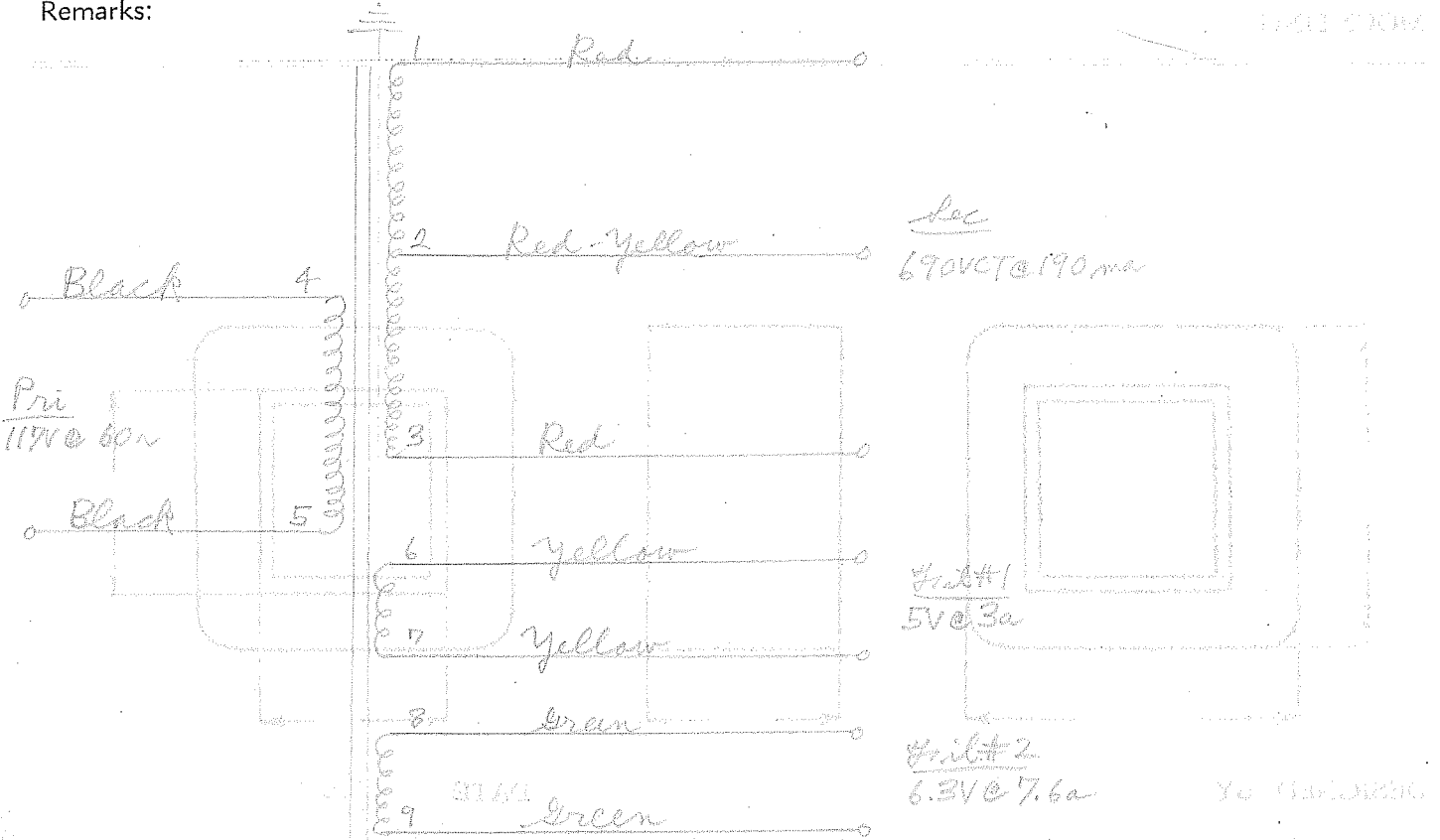
Winding	1-2-3		4-5	6-7	8-9		
	Sec	Shield	Pri	Wind #1	Wind #2		
Mean Turn	8.03	—	9.85	10.96	11.00		
Resistance 25° c	65.6	—	1.62	.0654	.0417		
Pounds Copper	.488	—	.778	.0501	.1280		
Copper Density	842	—	762	542	428		
Ratio Volts	open circuit	—	117	5.37	6.82		
	Load	—	117	5.04	6.34		
Test to Ground	2500	—	1500	2000	1000		

Iron Induction 11.7 kg @ 60 Cycles with 117V on 4-5

Exciting Current $320 \text{ milli amperes}$ @ 117 volts 60 cycles on 4-5

Induced Test: Apply Volts at Cycles on with grounded

Remarks:



5

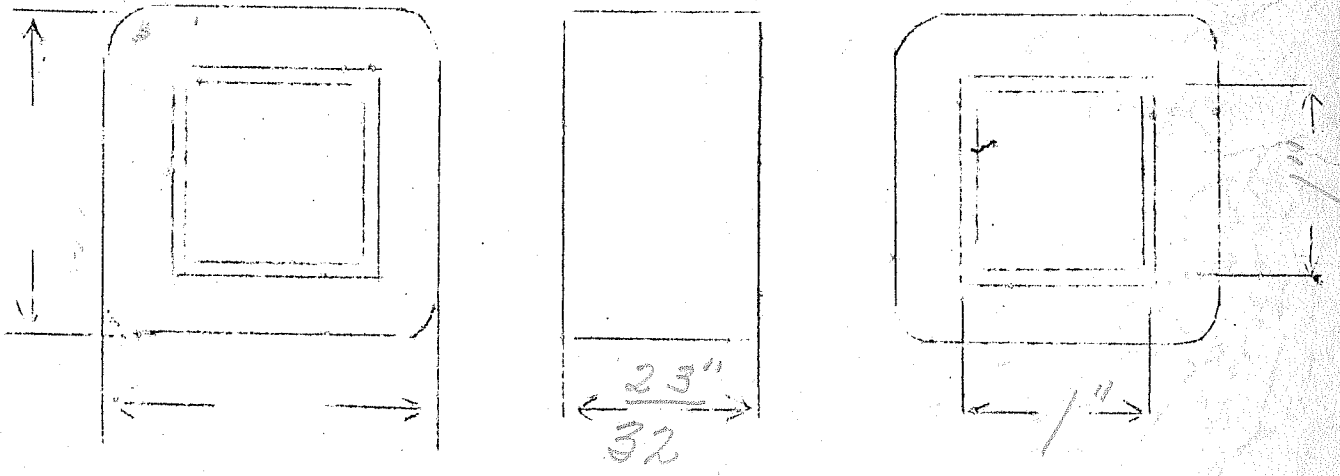
SPEC. NO. 500

Winding	SEC	PRI				
Turns	4500	3000				
Taps	NONE	NONE				
Wind. Lgth.	1/2	1/2				
Wire Size	40E	37E				
T.P.L.	125	88				
Kind Term.						
Term. Lgth.						
Layer Insul.	16661	16661				
Wrapper	2L0034	2L0056A				

TUBE | 7L007 | IMPREGNATION | WAX

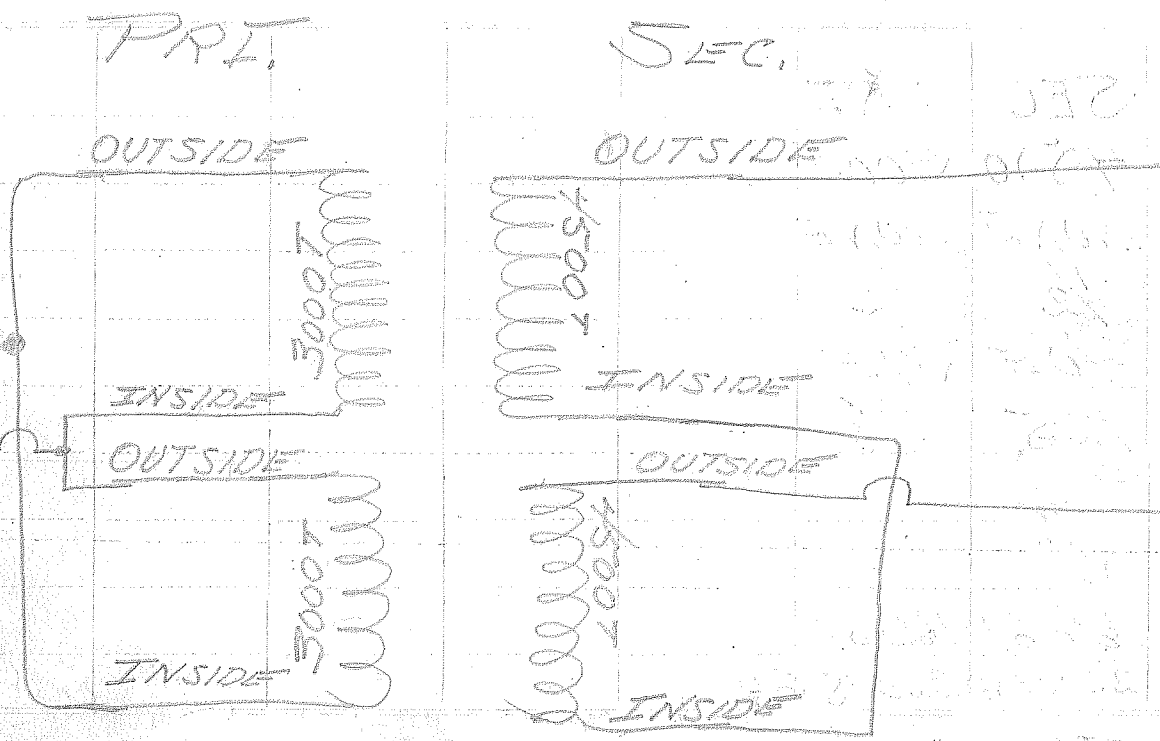
CURE | 1" x 1" N.W.

SEE OTHER SIDE FOR ASSEMBLY INFORMATION

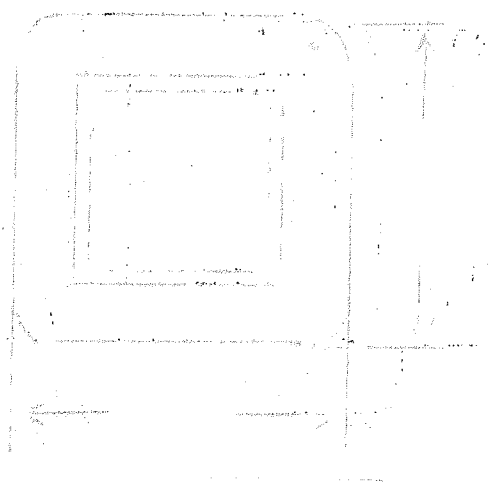
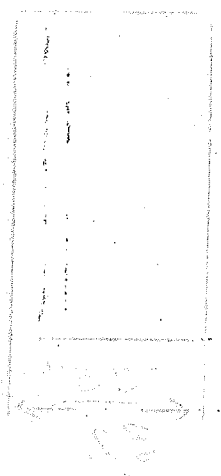
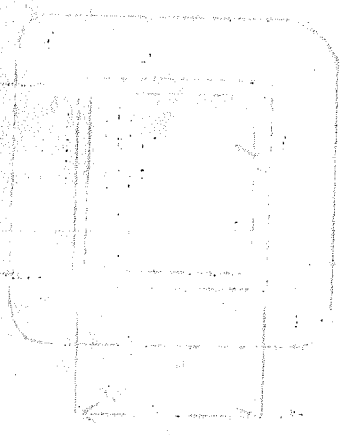


TWO COILS TO BE ASSEMBLED ON CORE IN REVERSED WINDING DIRECTION

002 01 1/3/92



Winding	Turns	Type	Wind. Dir.	Wire Size	T.P.T.	Kind Term.	Term. Conn.	Layer Insul.	Wdg. Pos.	Core
1	5000									
2	5000									
3	1500									
4	1000									



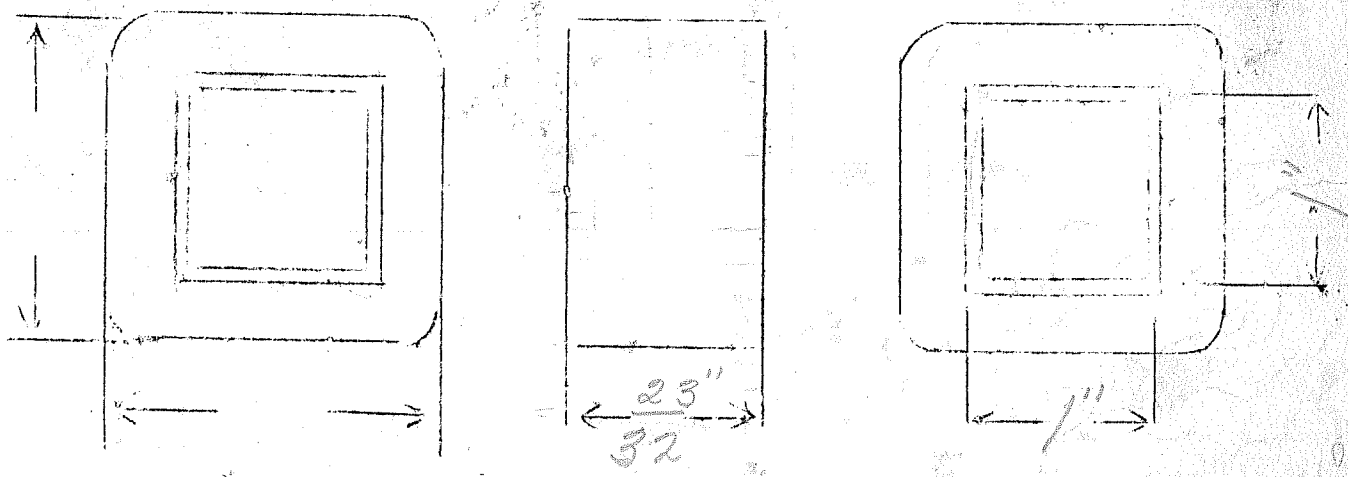
3

SPEC. NO. 501

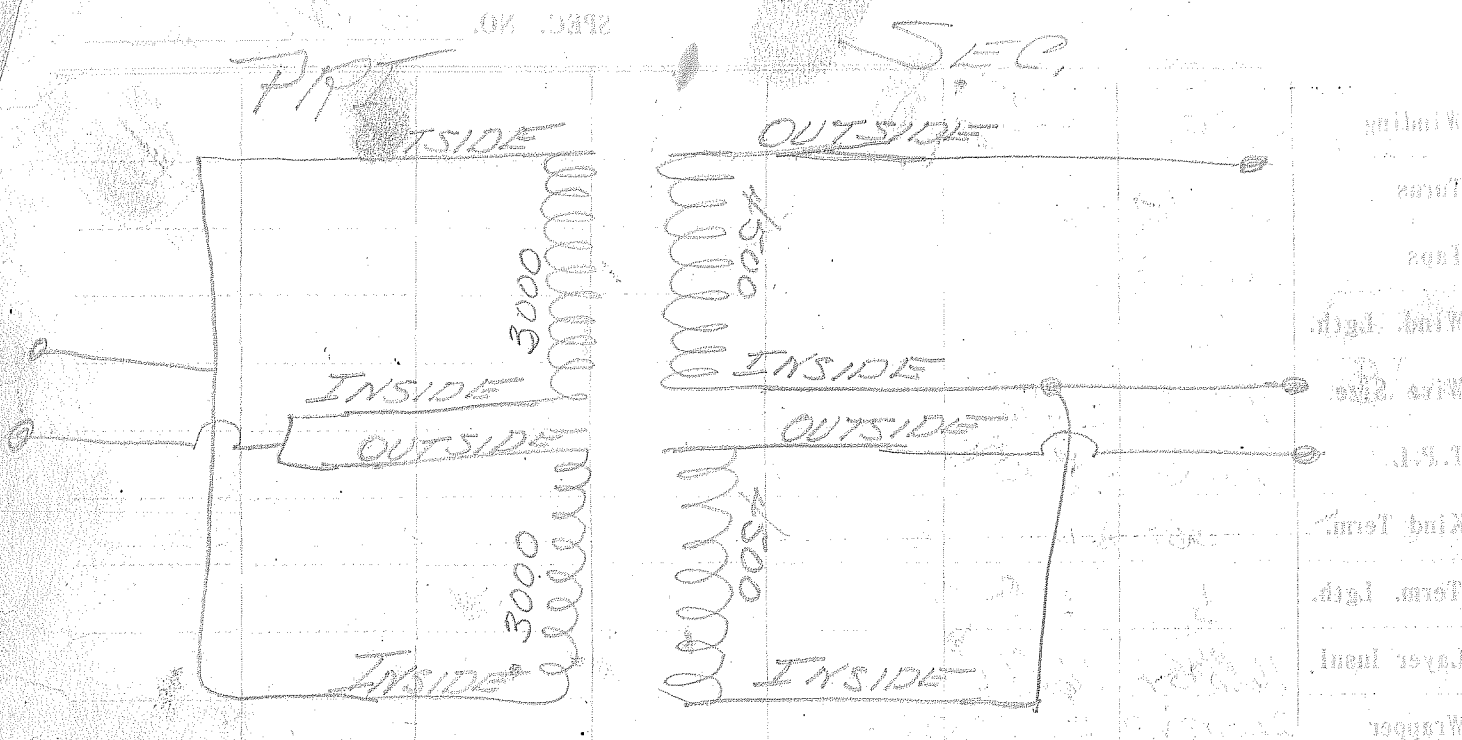
Winding	SFC.	PRI				
Turns	6000	4000				
Taps	NONE	NONE				
Wind. Lgth.	1/2	1/2				
Wire Size	40E	40E				
T.P.L.	125	125				
Kind Term.	sil Br					
Term. Lgth.	3	3				
Layer Insul.	16lb 67	16lb 9				
Wrapper	2L003VP	2L0056A				

TUBE 7L007 IMPREGNATION VVAX
 CURE 1" X 1" NWY 2X2 Grade A annealed

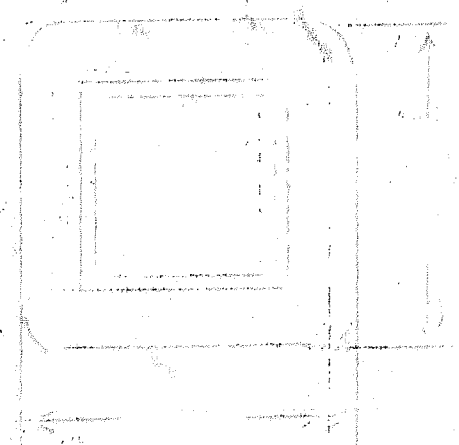
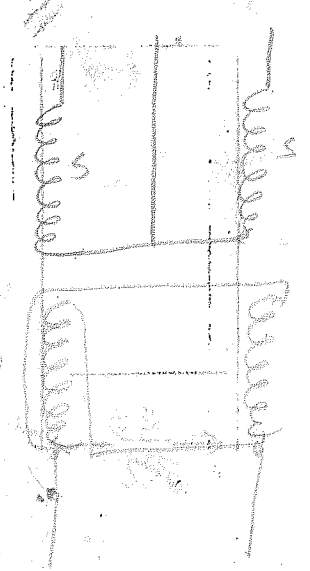
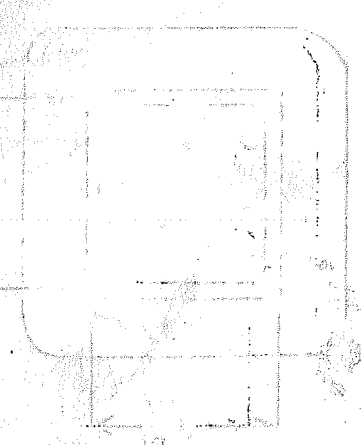
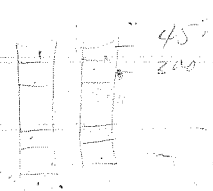
SEE OTHER SIDE FOR ASSEMBLY INFORMATION



TWO COILS TO BE ASSEMBLED IN REVERSE DIRECTION



Resistance Test
 Primary 390-
 Secondary 1900-1900
 -3000-



POWER:

117V @ 50/60 ~ TO:

NEW STOCK

720 V.C.T. @ 250 m.a.

6.3V @ 0.6A

6.3V @ 1.2A Tapped at 5V @ 2A

5V @ 3A

6.3V @ 8A

SPEC. NO. T-502

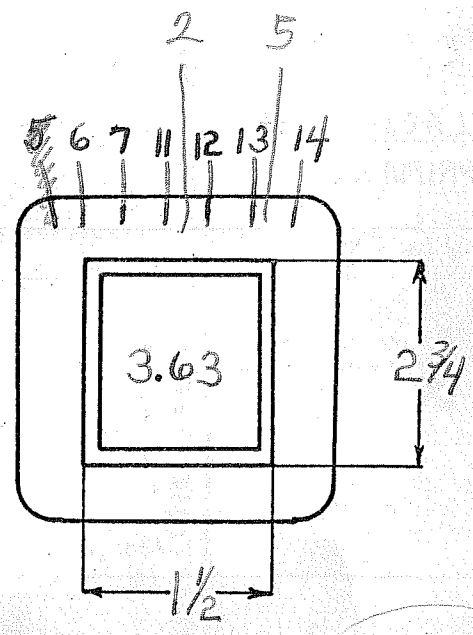
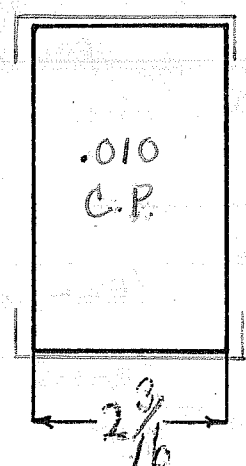
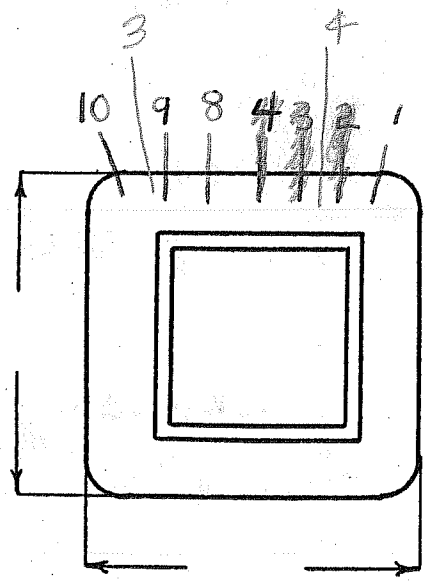
Winding	1-2-3 SEC	SHIELD	4-5 PRIM	6-7 FIL #1	8-9-10 FIL #2	11-12 FIL #3	13-14 FIL #4
Turns	1270 1270	1	200	12	12	9	12
Taps	635 642	—	—	—	9	—	—
Wind. Lgth.	1 7/8	1 7/8	1 7/8	15/16	15/16	15/16	15/16
Wire Size	#28	.002 cu	#18	#24	#19	#17	#14
T. P. L.	129-10L	—	40-5L	12-1/2L	12-1/2L	9-1/2L	12-1/2L
Finish	93.6%	—	89.2%	27%	48%	45%	85%
PITCH #	#22	—	w.o.	w.o.	w.o.	w.o.	w.o.
Type Lead	DULAC	SIL. BR.	sleeve	sleeve	sleeve	sleeve	sleeve
Lead Lgth.	cut 14"	3"	cut 14"	cut 14"	cut 14"	cut 14"	cut 14"
Layer Insul.	40 #	—	60 # #55 GA	—	—	—	—
Test Volt.	2500	1L003CA	1500	2500	2500	2500	1500
Wrapper	1L005CA 2L005VC	1L007GA 1L60# 1L005VC	2L007GA	← 2L007GA →		2L007GA →	

TUBE	8L0106K + 1L003CA 2L0106K + 1L005VC	IMPREGNATION	VARNISH
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CORE 1 1/2 X 2 3/4 GA. 24 GRADE D EASTERN STANDARD STACK 2 X 2

MOUNTING A, N

$W_n = 82.0\%$



DESIGNED BY AL SHASKY

DATE 27-7-49

DESIGN AND TEST DATA

Rating: $I_A = 0.9 \times 250 = 225 \text{ m.a.}$

SEC V.A. = 210

PRI V.A. = 263

$I_P = 2.23$

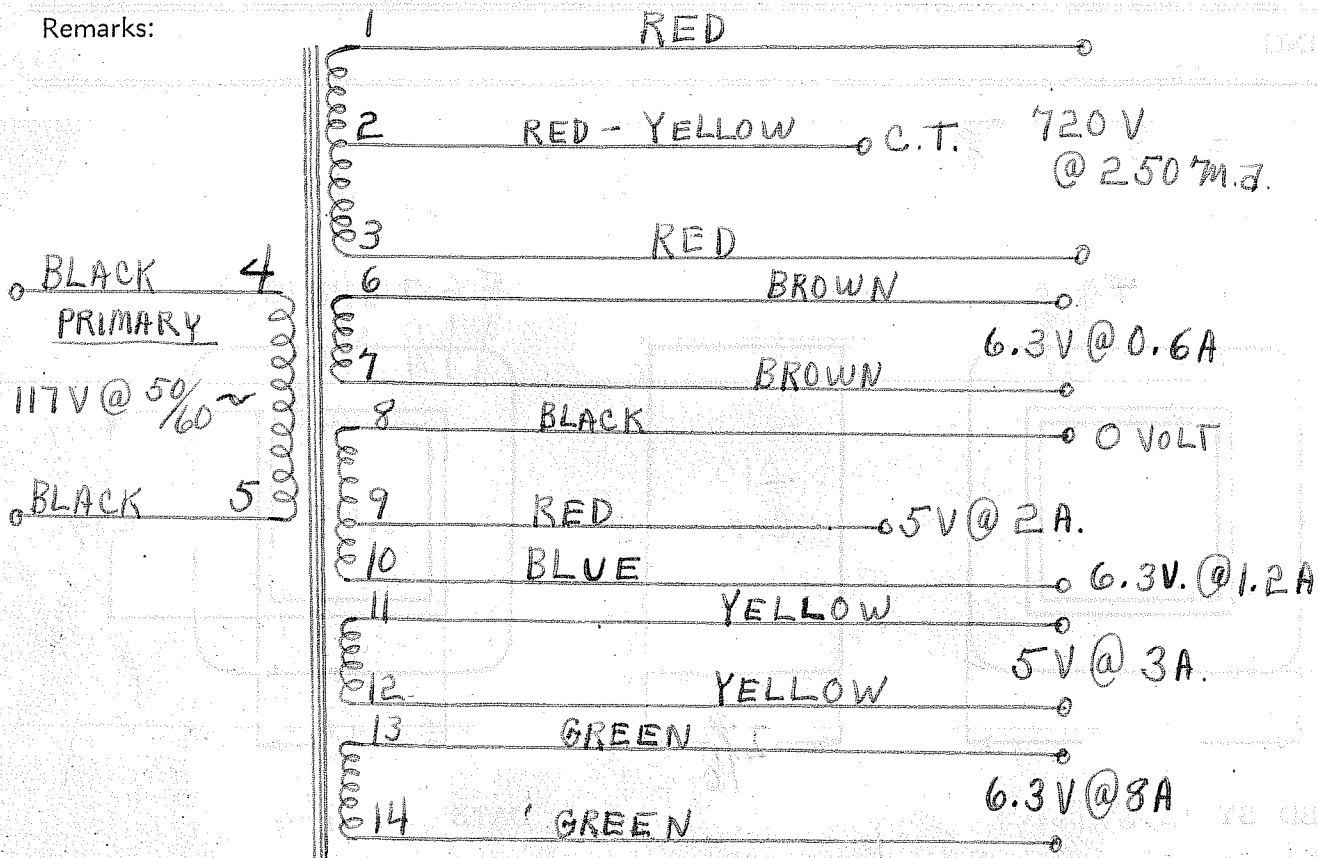
Winding	1-2-3 SEC	SHIELD	4-5 PRIM.	6-7 FIL.#1	8-9-10 FIL.#2	11-12 FIL.#3	13-14 FIL.#4
Mean Turn	9.47	—	11.07	12.18	12.18	12.67	12.67
Resistance 25° c	67.0	—	1.21	0.319	$\frac{0.100}{0.075}$	0.049	0.0326
Pounds Copper	0.50	—	0.93	0.015	0.048	0.06	0.16
Copper Density	710	—	728	674	644	684	521
OPEN CIRCUIT Ratio Volts	752	—	117	7.02	7.02; 5.27	5.27	7.02
LOAD	720	—	117	6.67	6.63; 5.00	5.00	6.60
Test to Ground	2500	—	1500	2500	2500	2500	1500

Iron Induction $11.25 \text{ K} @ 50$ Cycles

Exciting Current 160 ma amperes @ 117 volts 60 cycles on Pri

Induced Test: Apply _____ Volts at _____ Cycles on _____ with _____ grounded

Remarks:



POWER:

117V @ 5/60 ~ 70:

NEW STOCK

720V c.t. @ 250 M.A.

6.3V @ 0.6A.

6.3V @ 1.2A TAPPED at 5V @ 2A.

5V @ 3A.

6.3V @ 8A.

SPEC. NO. T-502

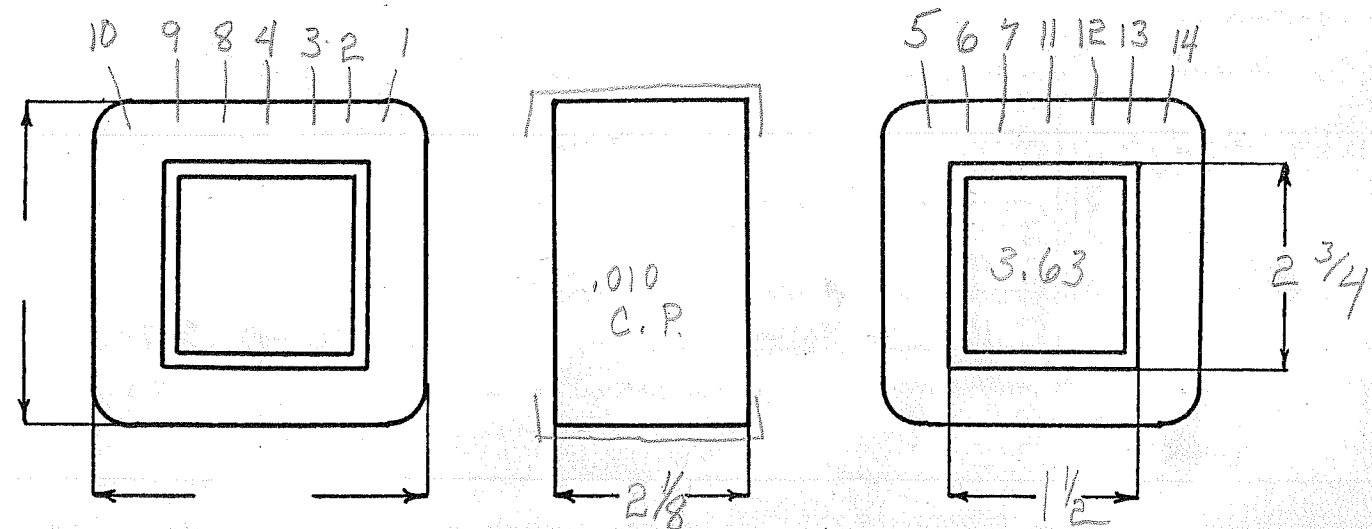
Winding	1-2-3 SEC	SHIELD	4-5 PRIM	6-7 FIL #1	8-9-10 FIL #2	11-12 FIL #3	13-14 FIL #4
Turns	1270	1	200	12	12	9	12
Taps	635	—	—	—	9	—	—
Wind. Lgth.	1 7/8	1 7/8	1 7/8	15/16	15/16	15/16	15/16
Wire Size	#28	.00204	#18	#24	#19	#17	#14
T. P. L.	129-10L	—	40-5L	12-1/2L	12-1/2L	9-1/2L	12-1/2L
Finish PITCH	93.6%	—	89.2%	27%	48%	45%	85%
Type Lead	#22 DULAC	SIL. BR.	w.o. sleeve	w.o. sleeve	w.o. sleeve	w.o. sleeve	w.o. sleeve
Lead Lgth.	Cut 14"	3"	Cut 14"	Cut 14"	Cut 14"	cut 14"	Cut 14"
Layer Insul.	40#	—	1L005GA	—	—	—	—
Test Volt.	2500	—	1500	2500	2500	2500	1500
Wrapper	2L005VC	1L007GA 1L005VC	2L007GA	← 2L007GA	← 2L007GA	← 2L007GA	→

TUBE 6L010BK + 1L005VC IMPREGNATION VARNISH

CORE 1 1/2 X 2 3/4 GA. 24 GRADE D EASTERN STANDARD STACK 2 X 2

MOUNTING A, N

$W_n = 82.0\%$



DESIGNED BY AL SHASKY

DATE 27-7-49

DESIGN AND TEST DATA

Rating: $I_s = 0.9 \times 250 = 225 \text{ M.A.}$

SEC. V.A. = 210
 PRI. V.A. = 263
 $I_p = 2.23$

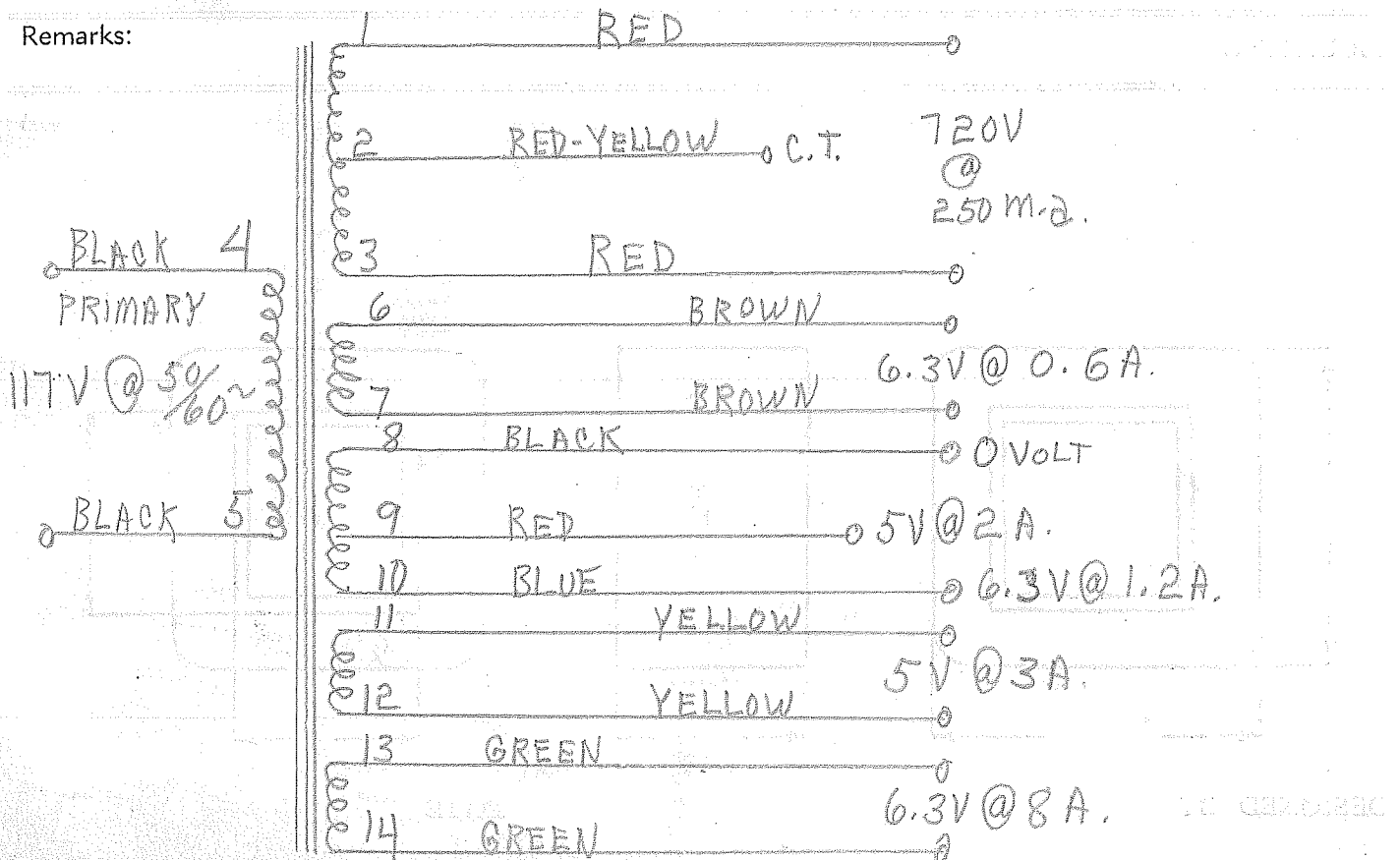
Winding	1-2-3 SEC	SHIELD	4-5 PRIM.	6-7 FIL#1	8-9-10 FIL#2	11-12 FIL#3	13-14 FIL#4
Mean Turn	9.47	—	11.07	12.18	12.18	12.67	12.67
Resistance 25° c	67.0	—	1.21	.319	$\frac{.100}{.075}$.049	.0326
Pounds Copper	0.50	—	0.93	.015	.048	0.06	0.16
Copper Density	710	—	728	674	644	684	521
Ratio Volts	OPEN CIRCUIT	—	117	7.02	7.02, 5.27	5.27	7.02
	LOAD	—	117	6.67	6.63, 5.00	5.00	6.60
Test to Ground	2500	—	1500	2500	2500	2500	1500

Iron Induction $11.25 \text{ Kg} @ 50$ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:



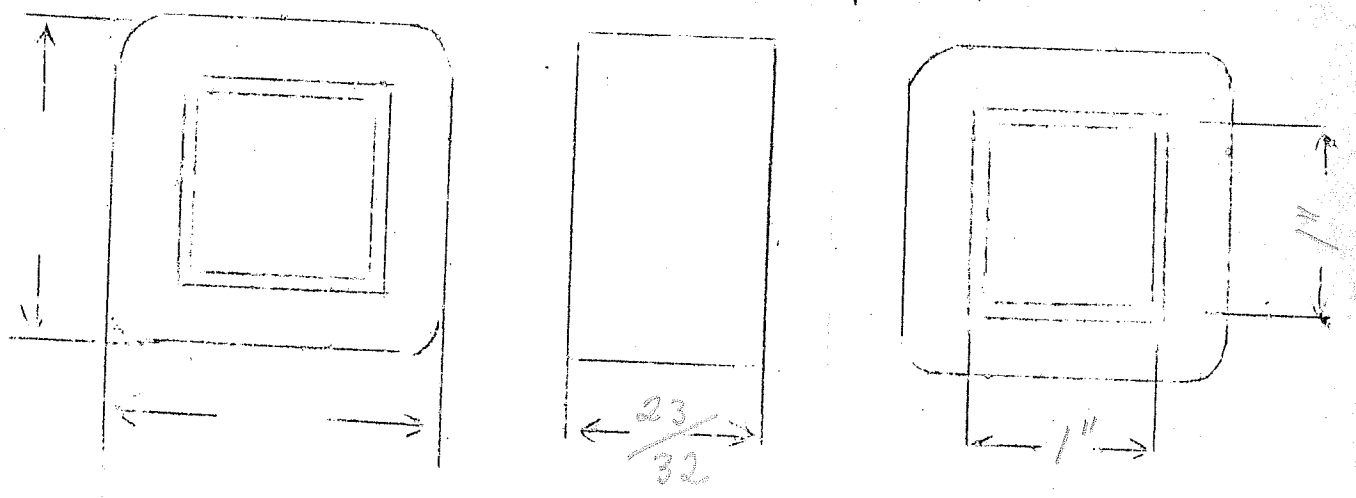
SPEC. NO. 502

Winding	SEC	PRI				
Turns	4500	3000				
Taps	None	None				
Wind. Lgth.	1/2	1/2				
Wire Size	40E	37E				
T.P.L.	125	88				
Kind Term.						
Term. Lgth.						
Layer Insul.	16# C1	16# C1				
Wrapper	2L003VP	2L0056H				

TUBE | 7L007 | IMPREGNATION | Wax

CURE | 1" X 1" NW

SEE OTHER SIDE FOR ASSEMBLY INFORMATION



Two Coils To Be Assembled in REVERSED Direction

Phi

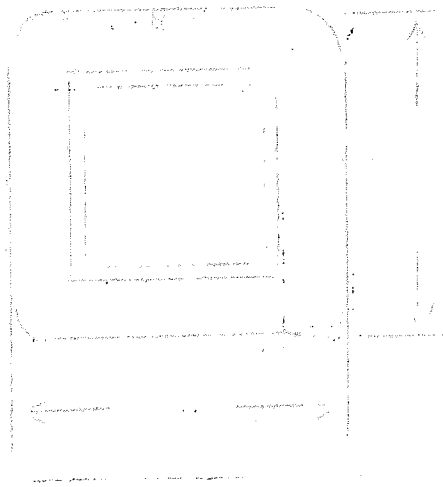
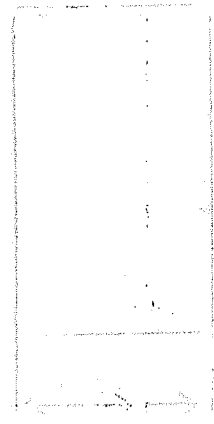
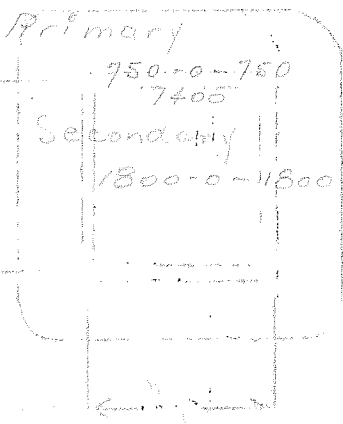
8985 NO.

Sec



Winding
Form
Tap
Wind. Lgth.
Wire Size
T.P.L.
Kind Term.
Term. Lgth.
Layer Inset
Wrapper
TONE
CURE

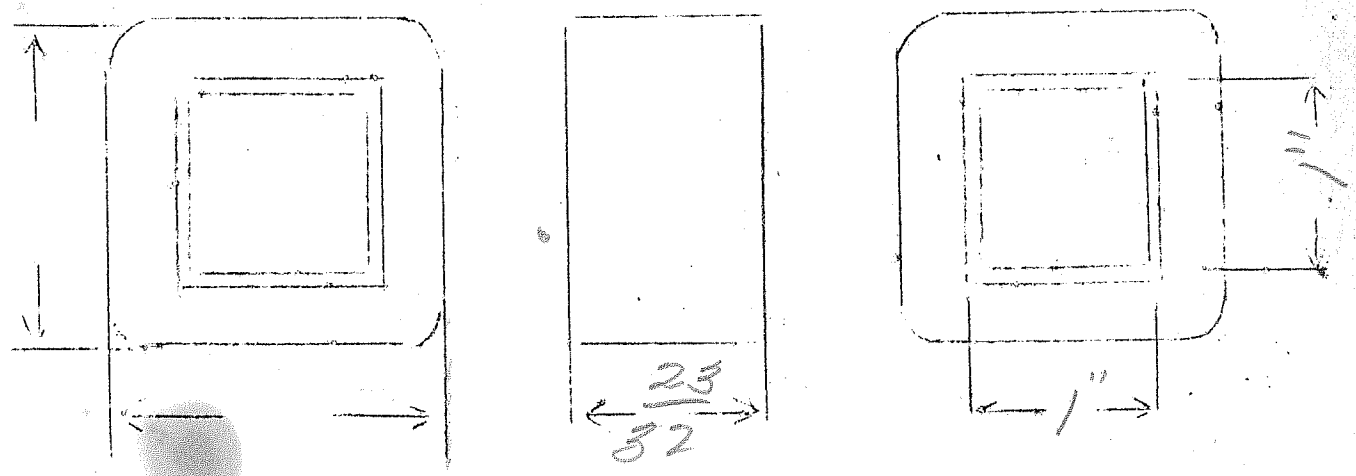
Resistance Test



SPEC. NO. 503

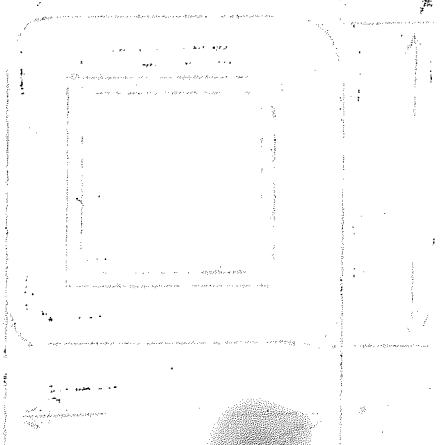
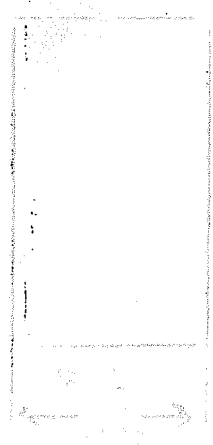
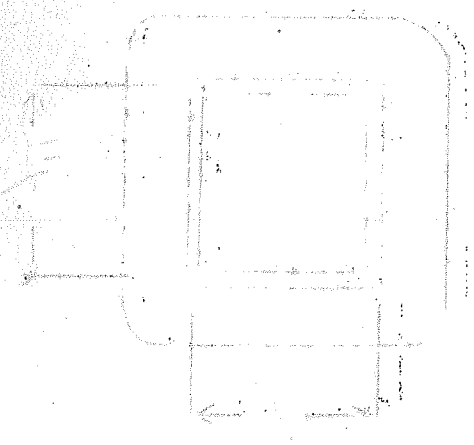
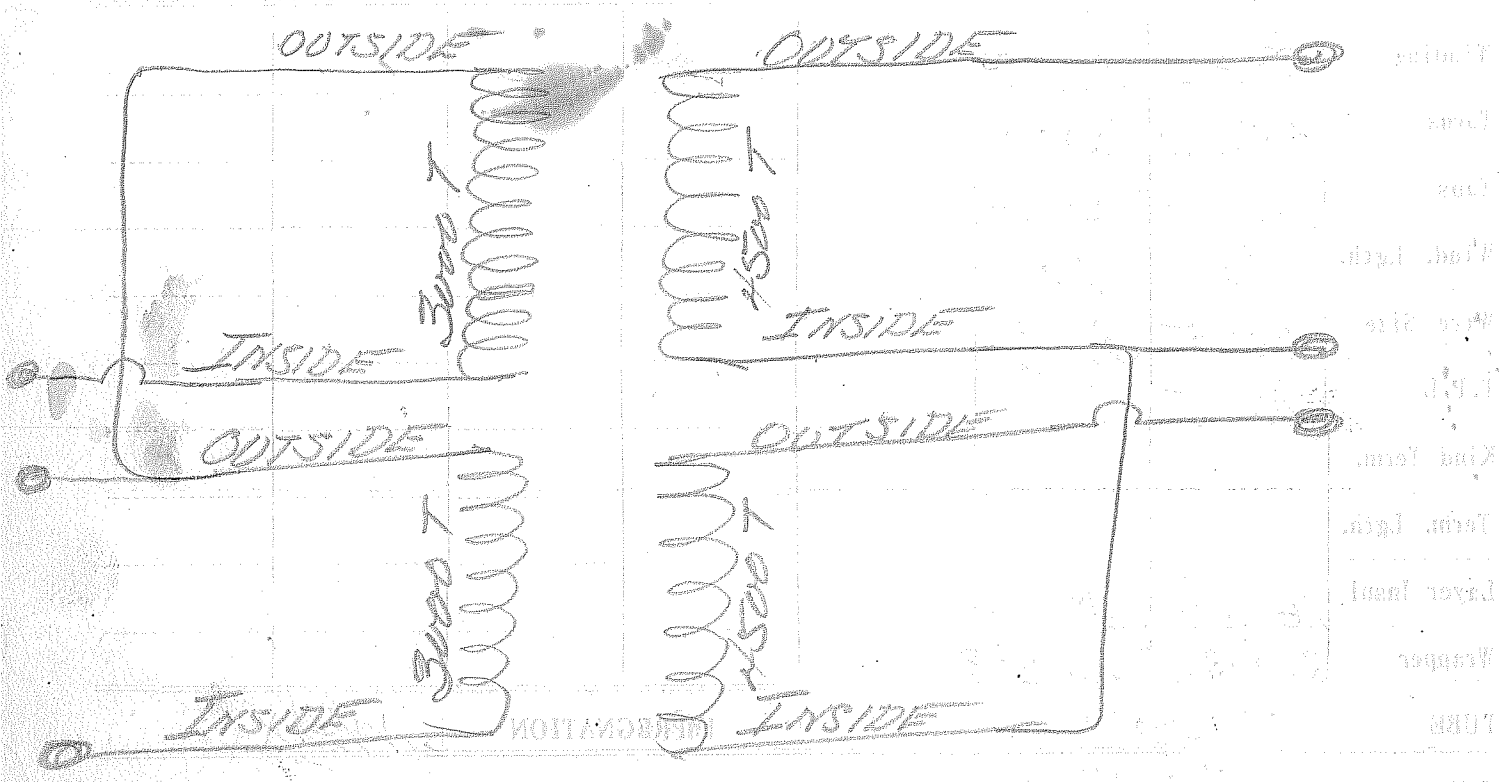
Winding	SEC	FRI				
Turns	4500	3000				
Taps	NONE	NONE				
Wind. Lgth.	1/2	1/2				
Wire Size	40F	37F				
T.P.L.	125	88				
Kind Term.						
Term. Lgth.						
Layer Insul.	1686G	1686C1				
Wrapper	21003VP	21003				
TUBE	72007		IMPREGNATION		WAX	
CURE	1" X 1" N.W.					

SEE OTHER SIDE FOR ASSEMBLY INFORMATION



TWO COILS TO BE ASSEMBLED IN
REVERSE DIRECTION

PRI OF 2000 SEC.



Pri - 2A5, 42, 6F6 (Triode)

Class ML

Sec - 2-2A5, 42, 6F6

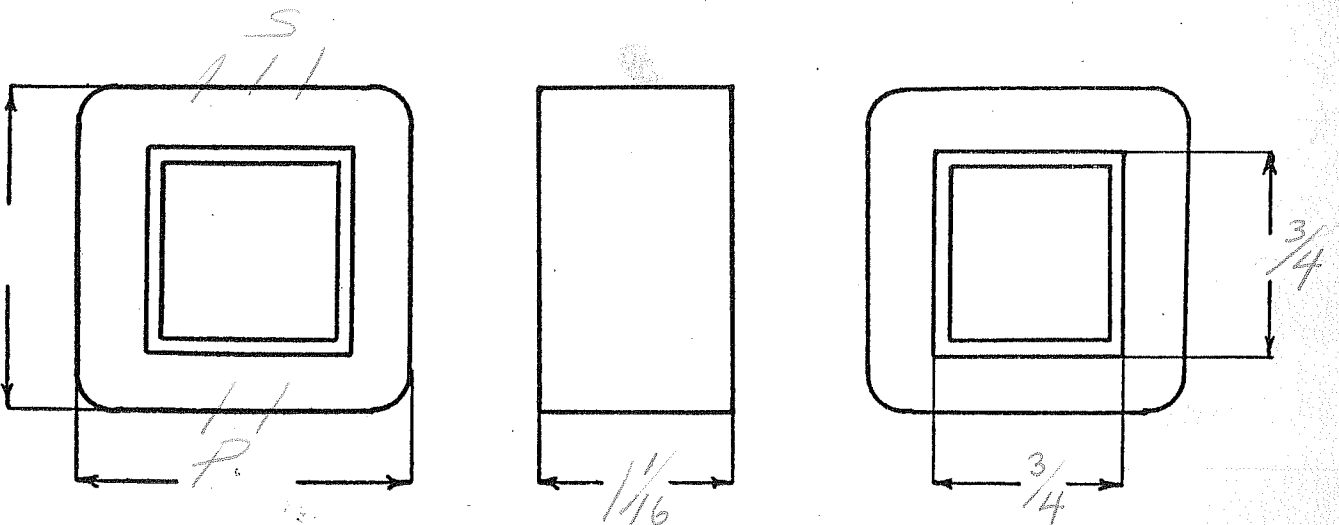
OLD

Ratio P/2S = 1:1.4

SPEC. NO. D.506

Winding	Sec	Pri	Sec				
Turns	2360	2700	2360				
Taps	—	—	—				
Wind. Lgth.	7" 1/8	7" 1/8	7" 1/8				
Wire Size	#37	#37	#37				
T. P. L.	160-15	160-17	160-15				
Finish							
Type Lead	Ail B						
Lead Lgth.	3"	3"	3"				
Layer Insul.	20#	20#	20#				
Test Volt.							
Wrapper	1L005VC	1L005VC	2L0056A				
TUBE	5L007 GK			IMPREGNATION	Varnish		
CORE	3/4 X 3/4	GA. 29	GRADE B	STACK 0.005" gap			
MOUNTING	D						

Connect finish of sec₁ to start of sec₂.



DESIGNED BY G.W.

DATE 6-29-38

Audio Driver
 Class B Interstage
 Ratio - 2.5 to 1
 20,000 Ohm to PP Grids
 Rating - 0.7 Watt (Pri)

SPEC. NO. D-507

Winding	Sec. #1		Pri.			Sec. #2	
Turns	900		4500			900	
Taps							
Wind. Lgth.	7/8"		7/8"			7/8"	= 0.875
Wire Size	#34		#38			#34	
T. P. L.	113 - 8L		174 - 26L			113 - 8L	
Finish							
Pitch	88%		87 1/2%			88%	
Type Lead	#22 Pr. Br.		#22 Pr. Br.			#22 Pr. Br.	
Lead Lgth.	9"		9"			9"	
Layer Insul.	1L - 20#G		1L - 20#G			1L - 20#G	
Test Volt.							
Wrapper	1L .005 VC 4L 20#G		1L .005 VC 4L - 20#G			2L .005 GA	
TUBE	4L - .007" GK		IMPREGNATION		VARNISH		
CORE	3/4 x 3/4 E & I GA.		29	GRADE D - Annealed	STACK Butt - No Gap		
MOUNTING	"D" - Leads Only						

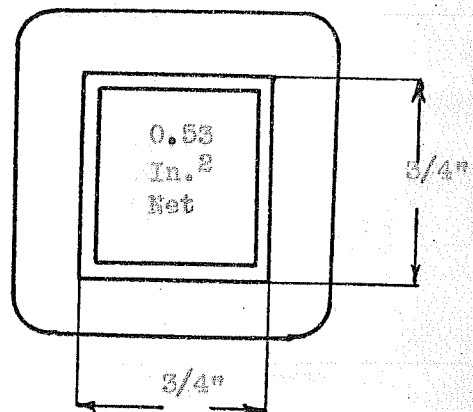
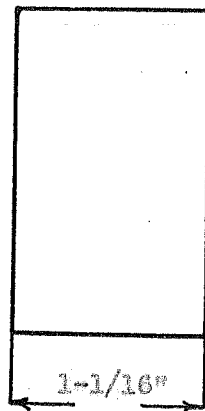
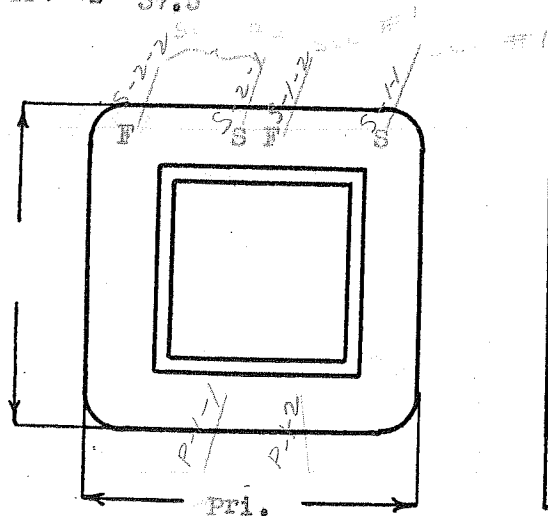
Wire Net = 0.270" (0.268")

Cu = 1572 - 10 Ma.

TPV = 37.5

$$\frac{4500}{120} = 37.5$$

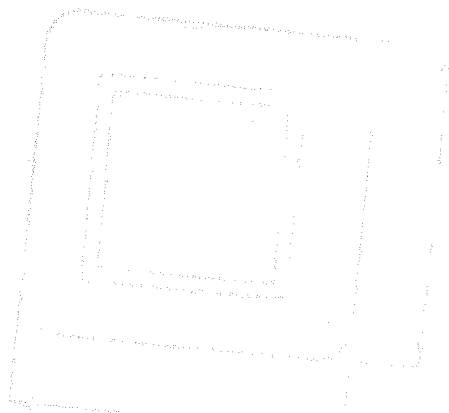
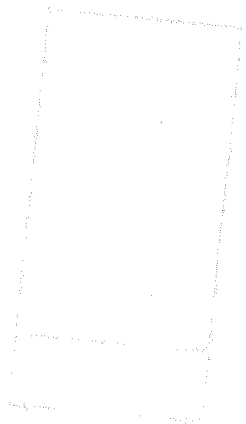
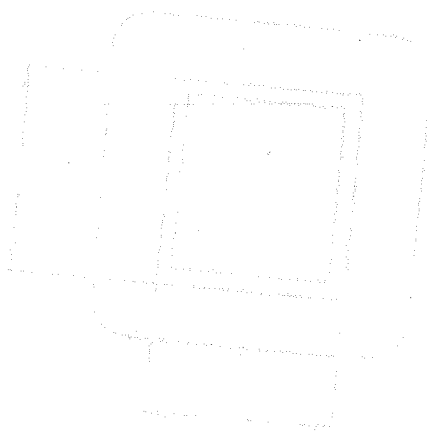
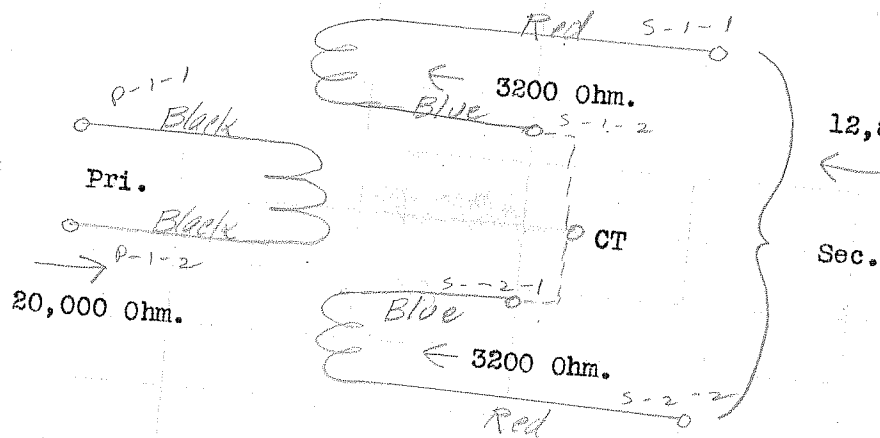
Fe = 45.2 - 25



DESIGNED BY H. W. S.

DATE

8-1-41



Pri 1-53, 6A6 (parallel).

Class B Driver

Sec 1-53, 6A6, 6V7 - Class B

OLD

P/2S-5.0

SPEC. NO. D-507

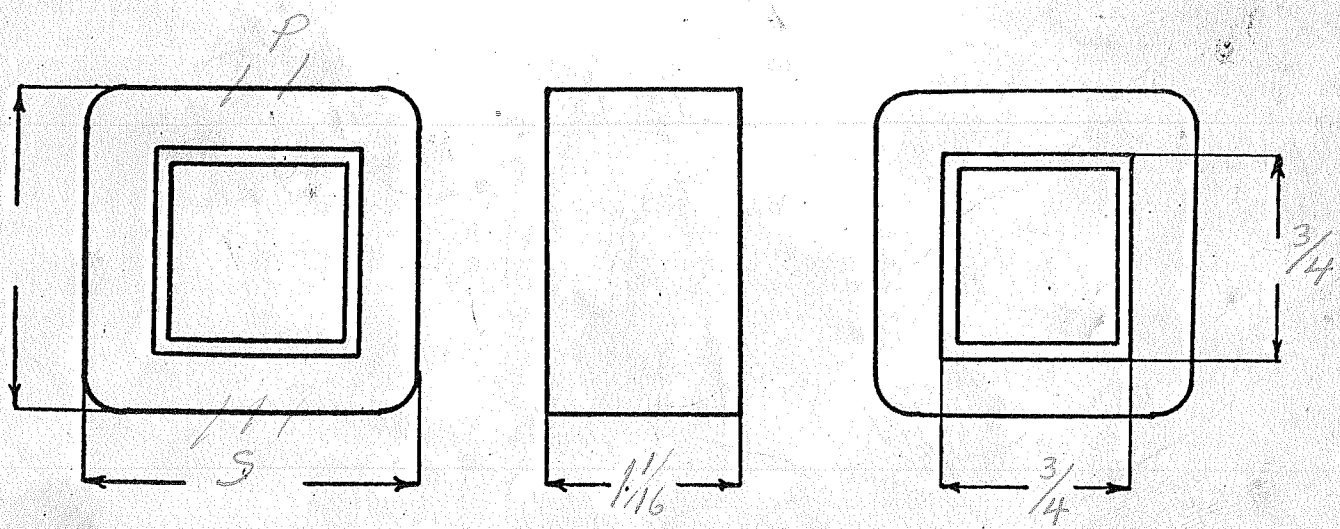
Winding	Pri	Sec				
Turns	4500	1800				
Taps		900				
Wind. Lgth.	7/8	7/8				
Wire Size	#38	#34				
T. P. L.	182-25	113-16				
Finish						
Type Lead	Ail Br					
Lead Lgth.	3"	3"				
Layer Insul.	20#	20#				
Test Volt.		1250				
Wrapper	14005VC 4LGL.	240056A				

TUBE	440076K	IMPREGNATION	Varnish
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CORE	3/4 X 3/4	GA.	29	GRADE	B	STACK	2 X 2
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MOUNTING D

~~Sec Red, blue c.t.~~
~~Pri Black~~



DESIGNED BY G.W.

DATE 5-26-38

CLASS B DRIVER

STOCK

Single Plate 6C5 or 6N7 (par) 7 watts

DESIGN AND TEST DATA

to
6N7 Class B

SPEC. NO. D-507

1. / 1/2 Sec equals 2.5 or 3.3

Winding	1-2-3 Pri.	4-5-6 Sec.				
Turns	3600	2180				
Taps	1420 775	1090				
Wind. Lgth.	7/8	7/8				
Wire Size	#38	#34				
T. P. L.	182-20L	109-20L				
Finish	91 1/2%	89%				
Type Lead	Silver Braid	Silver Braid				
Lead Lgth.	3"	3"				
Layer Insul.	20#	20#				
Test Volt.	1250	1250				
Wrapper	1L007VC	2L005GA				

TUBE 5L007GK plus 1L003V6 IMPREGNATION

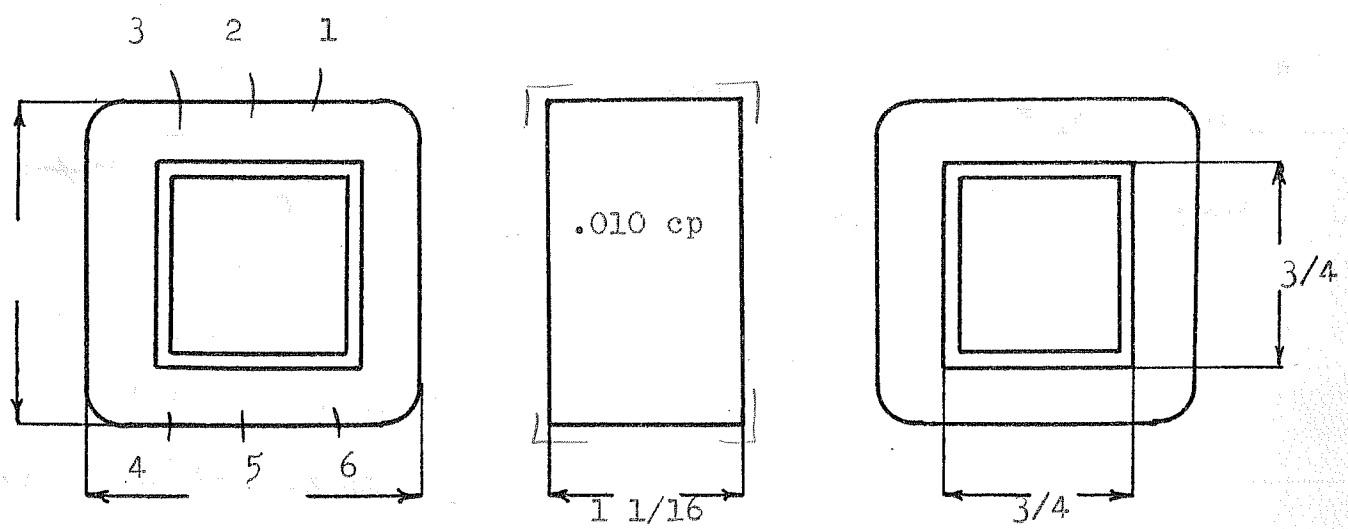
CORE 3/4 x 3/4 GA. 29 GRADE B. STACK Butt no gap

MOUNTING D - lugs Leads

T. P. V.

$$E = \sqrt{V \times 20,000} = 118V$$

$$\text{Window} = .335 / .375 = 89.3\%$$



DESIGNED BY F.F.

DATE

DESIGN AND TEST DATA

Rating: _____

Winding	Pri.	Sec.	
Mean Turn	3.681	4.72	
Resistance 25° c	743.0	228.0	
Pounds Copper	.0537	.105	
Copper Density			
Ratio Volts	110 43.4	66.6 33.4	
Test to Ground	1250	1250	

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks: 6CS $R_L = 20,000 \Omega @ 8 \text{ ma}$
 $R_p = 10,000 \Omega$

$$L = \frac{3.18 \times 10^{-8} \times .502 \times (2180)^2}{.004 + \frac{4.5}{1600}} = 12.5 \text{ Hy}$$

$$R_{\text{par}} = 6670$$

$$2 \text{ db } \text{dc } X_p = .77 \times 6670 = 5140$$

$$\text{freq } 2 \text{ db } \text{dc} = \frac{5140}{2\pi \times 12.5} = 66 \text{ Hz}$$

$$B_{AC} = \frac{34.9 \times 10^{-5} \times 118}{80 \times .495 \times 2180} = 4770$$

$$B_{DC} = \frac{.495 \times 2180 \times .008}{.004} = 2160 \text{ Hc}$$

$N_D = 1600$ half audio A

High

$$L = \frac{29 \times 4.3 \times (3600)^2}{.875} \left[\frac{.007 \times .108 \times .157}{3} \right] \times 10^{-8}$$

$$L = .177 \text{ Hy}$$

$$R_{\text{sen}} = 20,000 + 10,000 = 30,000$$

$$2 \text{ db } \text{dc } X_s = .77 \times 30,000 = 23,100$$

$$\text{freq } 2 \text{ db } \text{dc} = \frac{23100}{2\pi \times .177} = 20,700 \text{ Hz}$$

Television Power

New stock

117 v. @ 50/60 ~ to

1800 v @ 2 ma.

2.5V @ 1.8a.

6.3V @ .6a. tapped @ 2.5V @ 2.1a.

SPEC. NO. T 508

Winding	1-2 Sec	Shield	3-4 Pri	5-6 Fil	7-8-9 Fil		
Turns	10,600	1	650	16	38		
Taps	—	—	—	—	22		
Wind. Lgth.	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8		
Wire Size	#40	.001cu	#29	#20	#18		
T. P. L.	287-37L	—	82-8L	16-1L	22-2L		
Finish	90%	—	89%	48%	82%		
Type Lead	#22 Vinyl Dulac sl.	Sil. Br.	#22 P.B.	w. o. sleeve	w. o. sleeve	SMALL SLEEVEING	
Lead Lgth.	cut 14"	3"	cut 14"	cut 14"	cut 14"		
Layer Insul.	16#	—	30#	—	.005GA		
Test Volt.	5000	—	1250	5000	1500		
Wrapper	10L0012CA 2L010VC	3L0012CA 1L005VC	2L005CA 2L010VC 1L005GA	2L005CA 2L010VC 1L005GA	2L007GA		

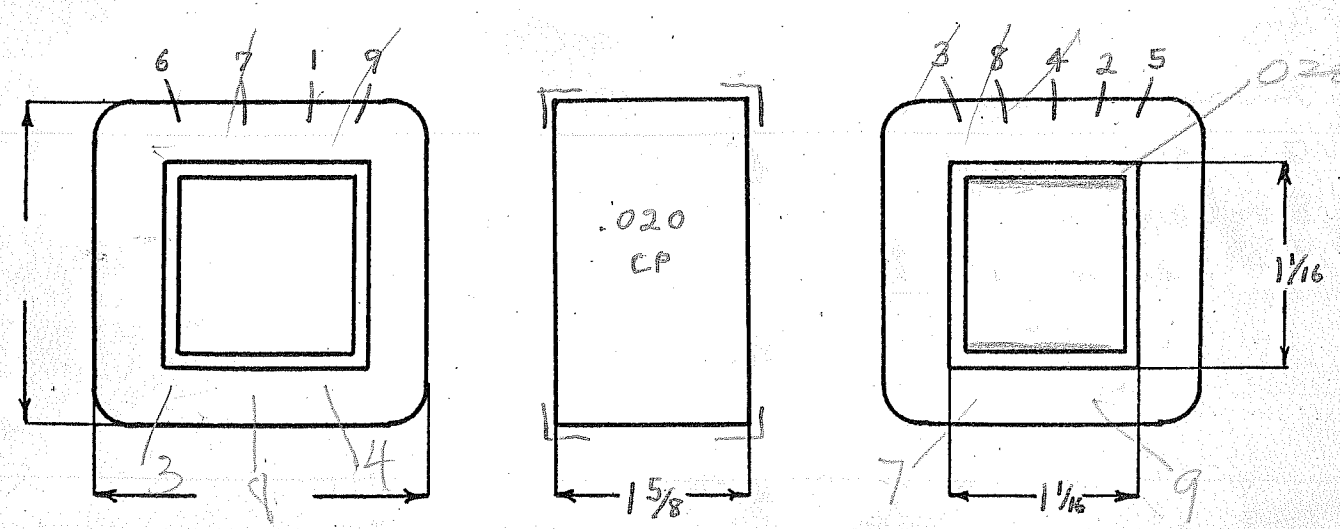
TUBE	5L010GK + 2L007VG 6L0012CA	IMPREGNATION	Varnish
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CORE	1/16 x 1/16	GA.	24	GRADE	D	STACK	2X2
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MOUNTING AA

wr = 85%

VINYL SLEEVE SECONDARY (RED)
AND YELLOW FIL.
FULL LENGTH



DESIGNED BY S. BABCOCK

DATE 6-15-49

DESIGN AND TEST DATA

Rating:

Sec VA = 17.1
Pri VA = 24.7
I_p = 208 ma.

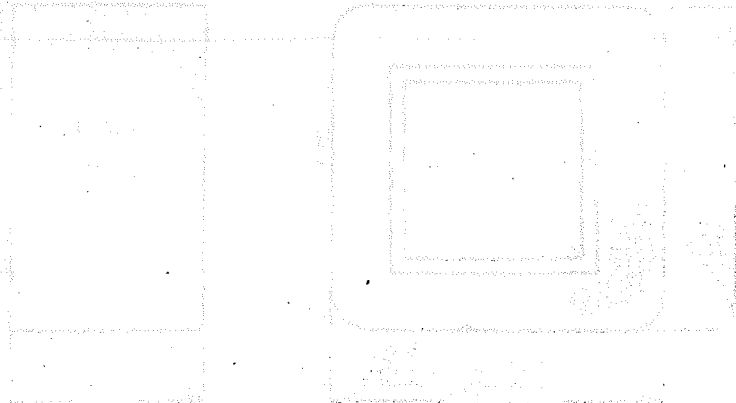
Winding	<i>Sec</i>	<i>Pri</i>	<i>5il</i>	<i>4il</i>		
Mean Turn	<i>5.28</i>	<i>6.56</i>	<i>7.29</i>	<i>7.93</i>		
Resistance 25° c	<i>4980</i>	<i>29.6</i>	<i>.101</i>	<i>.163</i>		
Pounds Copper	<i>.143</i>	<i>.139</i>	<i>.0305</i>	<i>.125</i>		
Copper Density	<i>4930</i>	<i>608</i>	<i>570</i>	<i>602</i>		
Ratio Volts	<i>1800</i>	<i>117</i>	<i>2.54</i>	<i>6.38</i>		
Test to Ground	<i>5000</i>	<i>1250</i>	<i>5000</i>	<i>1500</i>		

Iron Induction _____ @ _____ Cycles
 Exciting Current *65 ma* amperes @ *117* volts 60 cycles on *Pri.*
 Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:

- 1-2 Red*
- 3-4 Black*
- 5-6 Yellow*
- ~~*7-8-9 Green*~~

6.85 { *17 - Brown* } *3.95*
 { *8 - green* }
 { *9 - Black* } *2.85*



Television Power

New stock

117V @ 50/60 ~ to

1800V @ 2 ma

2.5V @ 1.8 a

6.3V @ .6 a tapped @ 2.5V @ 2.1 a

SPEC. NO. T 508

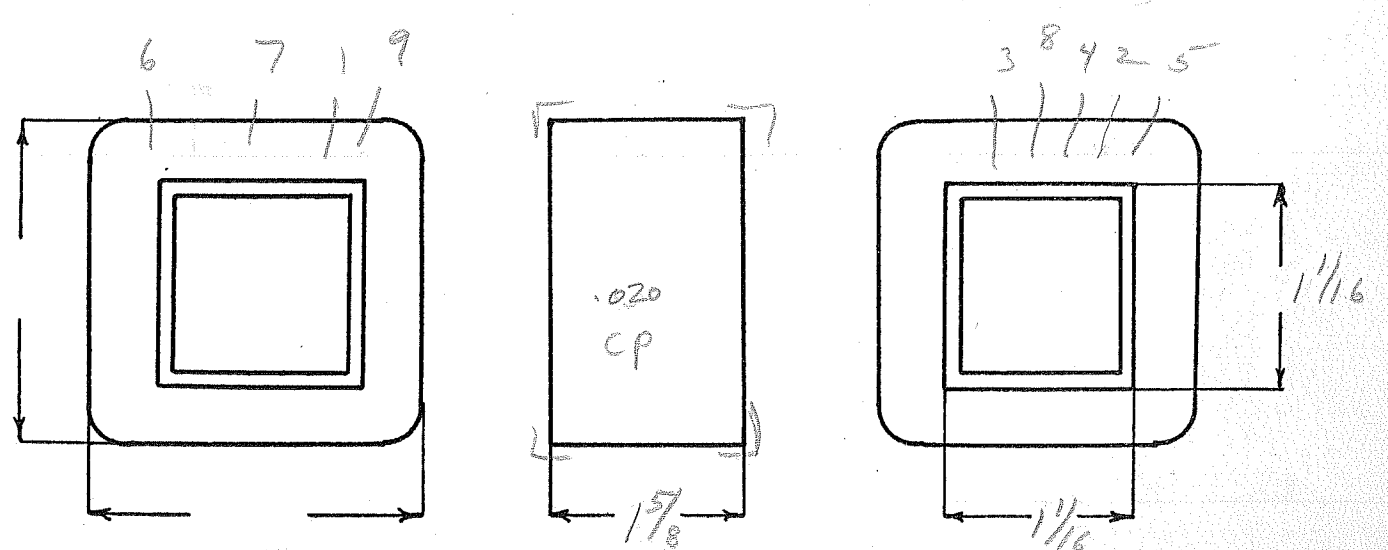
Winding	1-2 Sec	5L.	3-4 Pri	5-6 FIL	7-8-9 FIL		
Turns	10,600	1	650	16	38		
Taps	—	—	—	—	22		
Wind. Lgth.	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8		
Wire Size	#40	100/1 cr.	#29	#20	#18		
T. P. L.	287-37L	—	82-8L	16-1L	22-2L		
Finish	90%	—	89%	48%	82%		
Type Lead	#22 V. 1/2 Dilac SL	SIL. R.	#22 P. R	W.O. SLEEVE	W.O. SLEEVE		
Lead Lgth.	cut 14"	3"	cut 14"	cut 14"	cut 14"		
Layer Insul.	16#	—	30#	—	—		
Test Volt.	5000	—	1250	5000	1500		
Wrapper	2L010VC	1L005VC	2L010VC 1L005CA	2L010.VC 1L005CA	2L007CA		

TUBE	5L010GK + 2L007VG	IMPREGNATION	Varnish
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CORE	1 1/16 x 1 1/16	GA.	24	GRADE	D	STACK	2x2
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MOUNTING A.

Wm = 85%



DESIGNED BY S. Babcock

DATE 6-15-49

DESIGN AND TEST DATA

Rating: _____

Sec VA = 17
Pri VA = 24
Ip = 208 ma.

Winding	Sec.	Pri.	FL	F.L.		
Mean Turn	5.28	6.56	7.29	7.93		
Resistance 25° c	4980	29.6 6.2V	.101	.163	.1V	
Pounds Copper	.143	.139	.0305	.125		
Copper Density	4930	608	570	602		
Ratio Volts	1800	117	2.54	6.38		
Test to Ground	5000	1250	5000	1500		

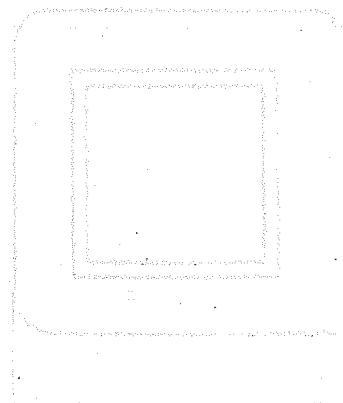
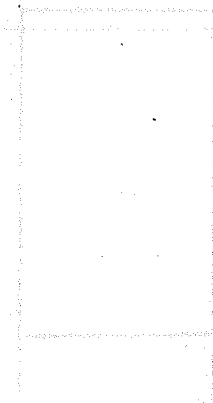
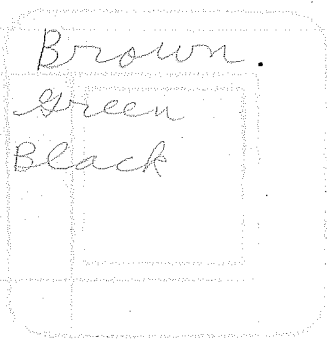
Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:

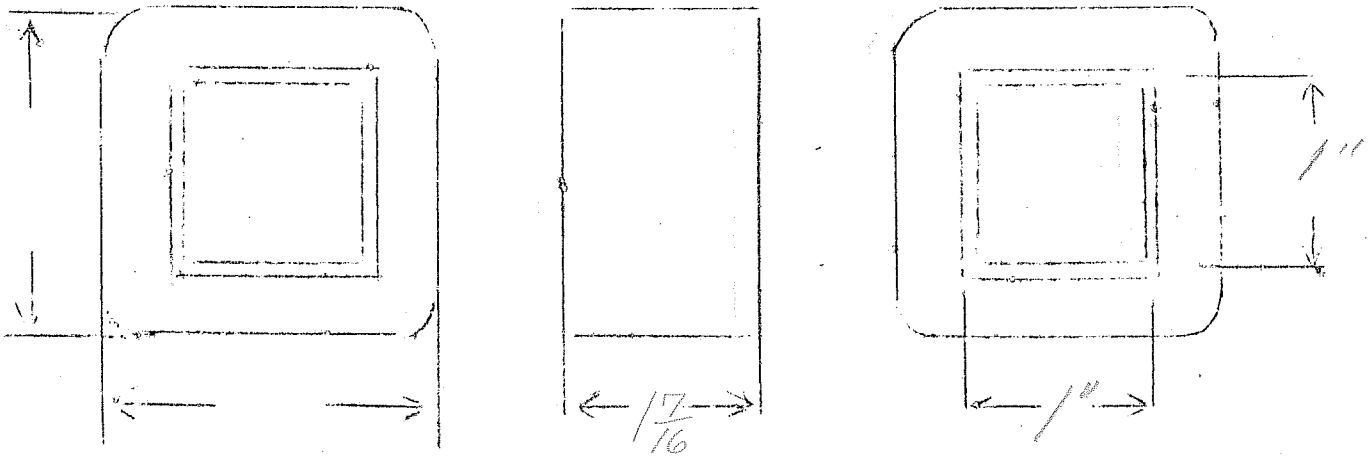
- 1-2 Red
- 3-4 Black
- 5-6 Yellow
- 7 - Brown
- 8 - Green
- 9 - Black



SPEC. NO. 508

Winding	PRI						
Turns	50000						
Taps	25000						
Wind. Lgth.							
Wire Size	#42						
T.P.L.	400						
Kind Term.							
Term. Lgth.							
Layer Insul.							
Wrapper							

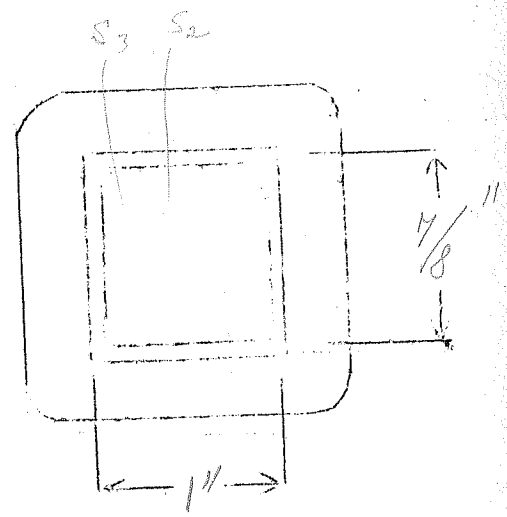
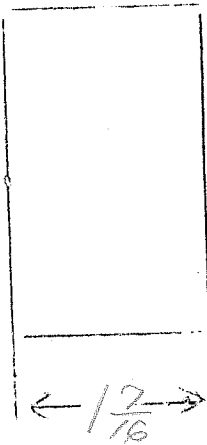
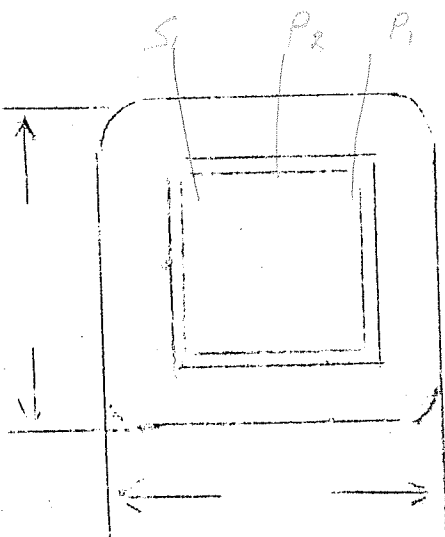
TUBE	4L 007	IMPREGNATION	VARNISH
CURE	1 X 1 NW (AUDIO)		



BAKED

SPEC. NO. 509

Winding	PRI	SEC				
Turns	3200	6400				
Taps		3200				
Wind. Lgth.	1.25	1.25				
Wire Size	#37E	#37E				
T.P.L.	225	225				
Kind Term.	#20 P.80	#20 P.80				
Term. Lgth.	9"	9"				
Layer Insul.	20#	20#				
Wrapper	2L003VP	2L0050A				
TUBE	4L007		IMPREGNATION		WAX	
CURE	1 X 3/8 MW.					



OUTPUT - 53 Pts. - 5000 Ω - MODULATOR -

SEC MA = 70

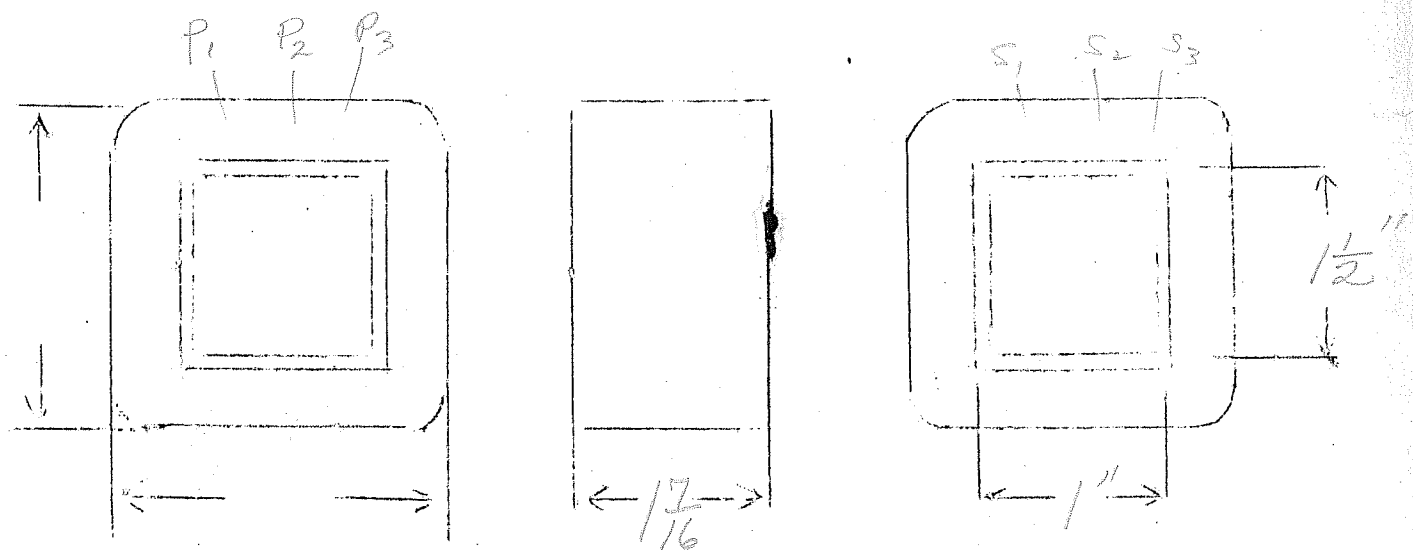
LOAD RES $P_T - P_T = 8000 \Omega$

POWER OUT POT = 8WATTS

BAKER

SPEC. NO. 510

Winding	PRI	SEC				
Turns	3000	2400				
Taps	1500	1200				
Wind. Lgth.	1.25	1.25				
Wire Size	#37E	#34E				
T.P.L.	225	145				
Kind Term.	#20 PBR	#20 PBR				
Term. Lgth.	9"	9"				
Layer Insul.	20#	20#				
Wrapper	2L005 VP 3L005 BA	2L005 BA				
TUBE	4L007		IMPREGNATION		WAX	
CURE	1X 1 1/2 NW					



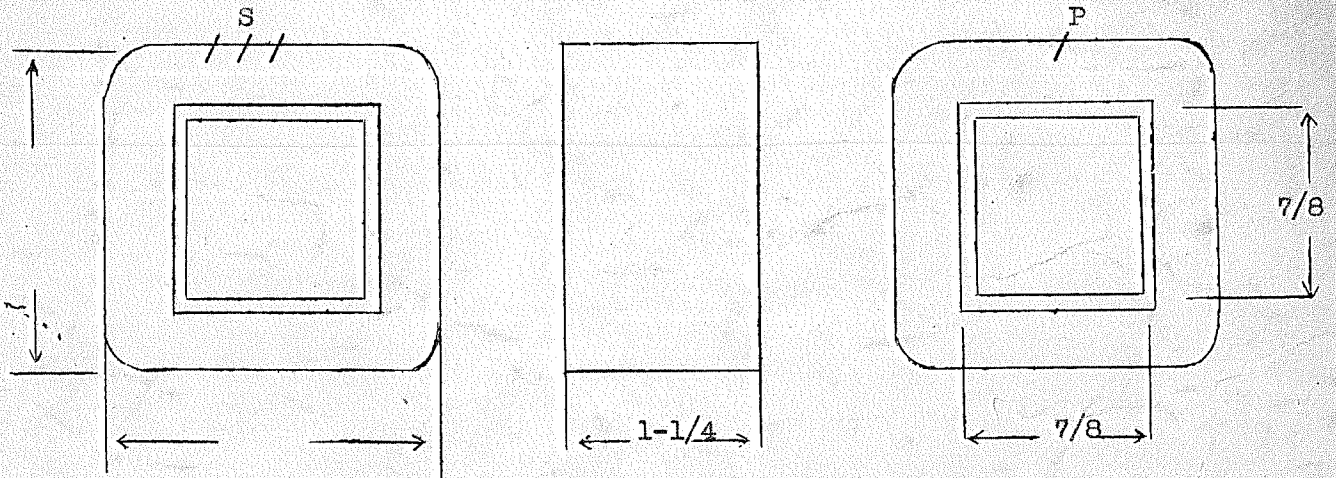
510

79, 53, 6A6 parallel plates to 53, 79,
6A6, Class B grids

SPEC. NO. 3511

Winding	PRI.	SEC.				
Turns	4750	1900				
Taps		950				
Wind. Lgth.	1-1/16	1-1/16				
Wire Size	#36	#36				
T.P.L.	174-23	174-13				
Kind Term.	#20 Par. Br. or					
Term. Lgth.	2" or	3"				
Layer Insul.	20#	20#				
Test Volt.	1250					
Wrapper	31GL 11.007VC	21.005GA				

TUBE	7.007	IMPREGNATION	VARNISH
CORE	7/8 X 7/8 - B Grade 29 Ga 2 x 2	PRIMARY V.A.	
MOUNTING	A TYPE		



DESIGNED BY G. W.

DATE 4/8/37

Primary - 10,000 Ohm CT
 Secondary - 3000 Ohm @ 100 Ma.

DUPLICATE 3-5-42
 OLD STOCK TO #8323

Modulation Transformer

SPEC. NO. S-512-F

Winding	1-2-3 Primary	4-5 Secondary			
Turns	3020	1660			
Taps	1510	-			
Wind. Lgth.	1-1/16"	1-1/16" = 1.06"			
Wire Size	#35	#32			
T. P. L.	151 - 20L	111 - 15L			
Finish Pitch	90%	90%			
Type Lead	Sil. Br. + Vinyl. Slee.	Sil. Br. + Vinyl. Slee. (See Below)			
CUT Lead Lgth.	4"	4"			
Layer Insul.	1L 20#G	1L 30#G			
Test Volt.	2500V	2500V			
Wrapper	2L 003CA 005" VC	1L 007 VC 2L 007 GA 2L 005 CA			

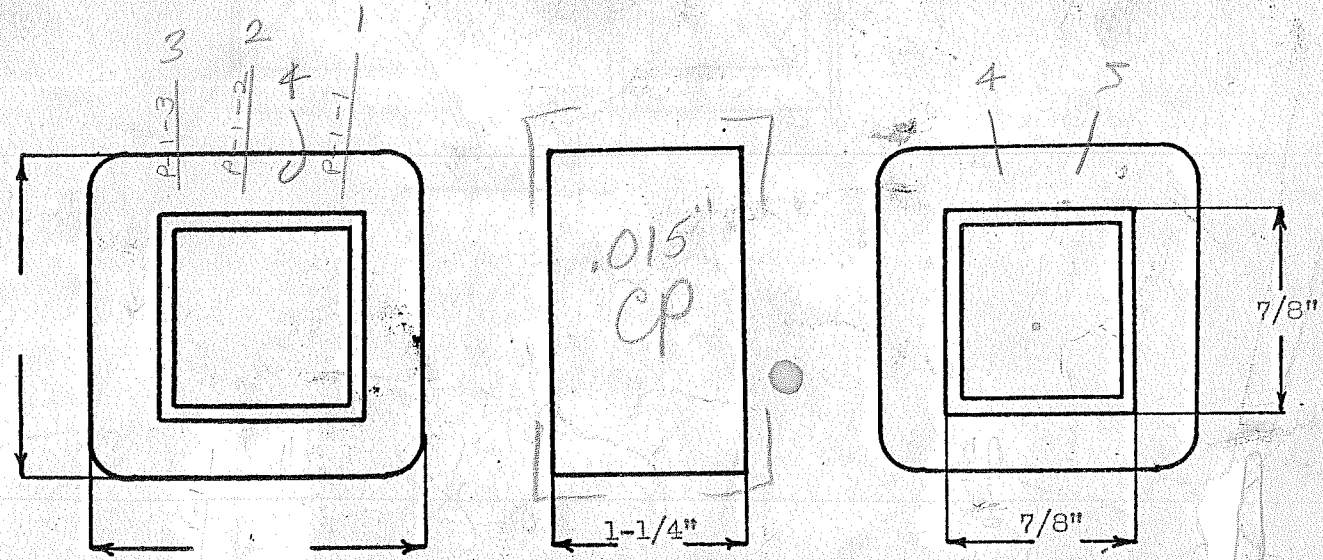
TUBE 5L - .007" GK / 1L .0012 CA / 2L .005" VC IMPREGNATION VARNISH

CORE 7/8" x 7/8" E & I GA. 29 GRADE A B STACK Butt - .005" GA

MOUNTING "F"

Wire Net = 0.312" (0.309")

VINYLLITE SLEEVING TO EXTEND 2" FROM COIL.

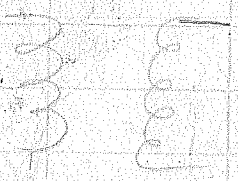


Re-DESIGNED BY HWS

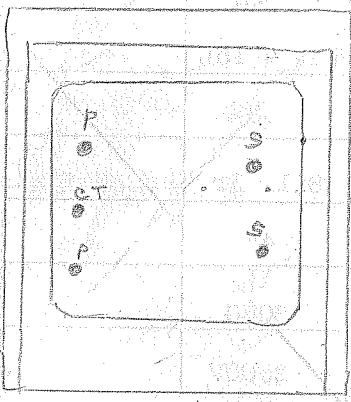
DATE 12-29-41

110 on Sec.
 Ratio 95 off of Pri

Prim 115 V
 E_{sec} = 12
 Sec = 60 V

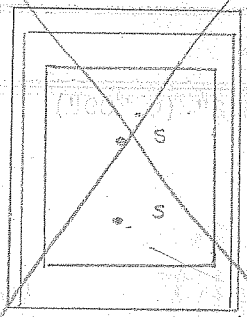
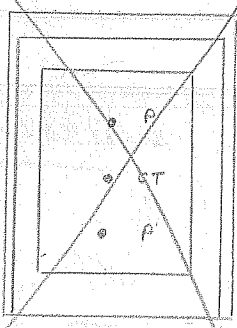


"F" Mounting

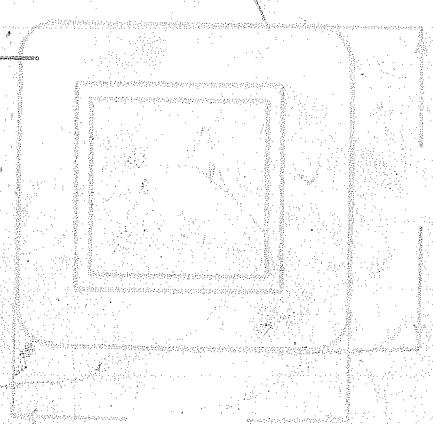
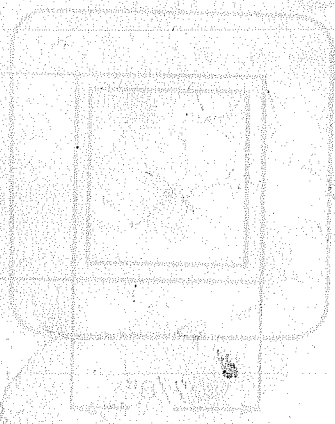


Stamp Panel as Shown Above

$$Z = \frac{115}{.012} = 9580 \Omega$$



"F" MTG.



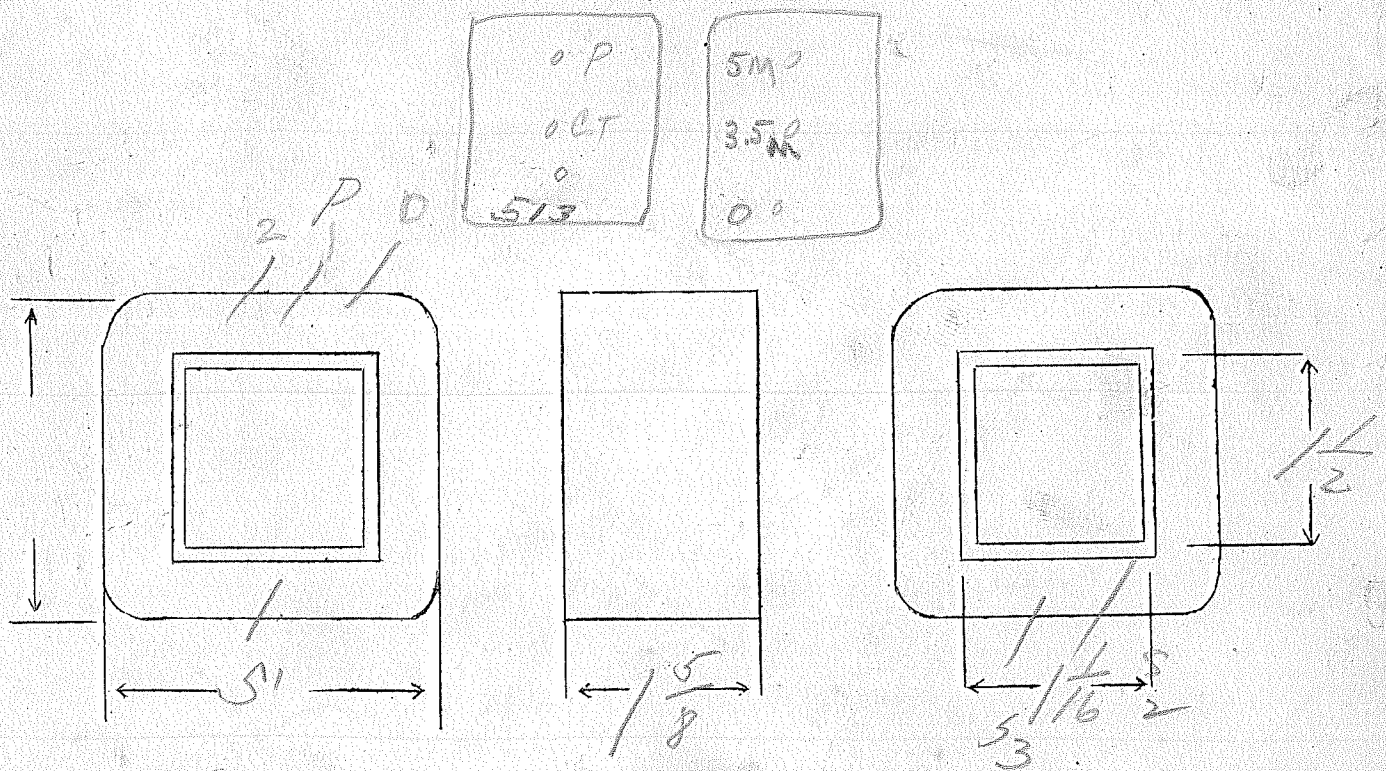
PP-A prime 2A5, 42 or 6F6 to 5000 or 3500₀

alc-120ma

SPEC. NO. 513

Winding	PRI	SEC				
Turns	3600	2860				
Taps	1800	2400				
Wind. Lgth.	$1\frac{3}{8}$	$1\frac{3}{8}$				
Wire Size	#34	#30				
T.P.L.	180-20	115-25				
Kind Term.	Silver Brnd					
Term. Lgth.	4"	4"				
Layer Insul.	30#	40#				
Test Volt.						
Wrapper	2007VC	2007VC 26005GA				

TUBE	2007	IMPREGNATION	VARNISH
CORE	$1\frac{1}{16} \times 1\frac{1}{2} - 24$ ga dynamo	PRIMARY V.A.	
MOUNTING	F	V 242	



DESIGNED BY *G.W.*

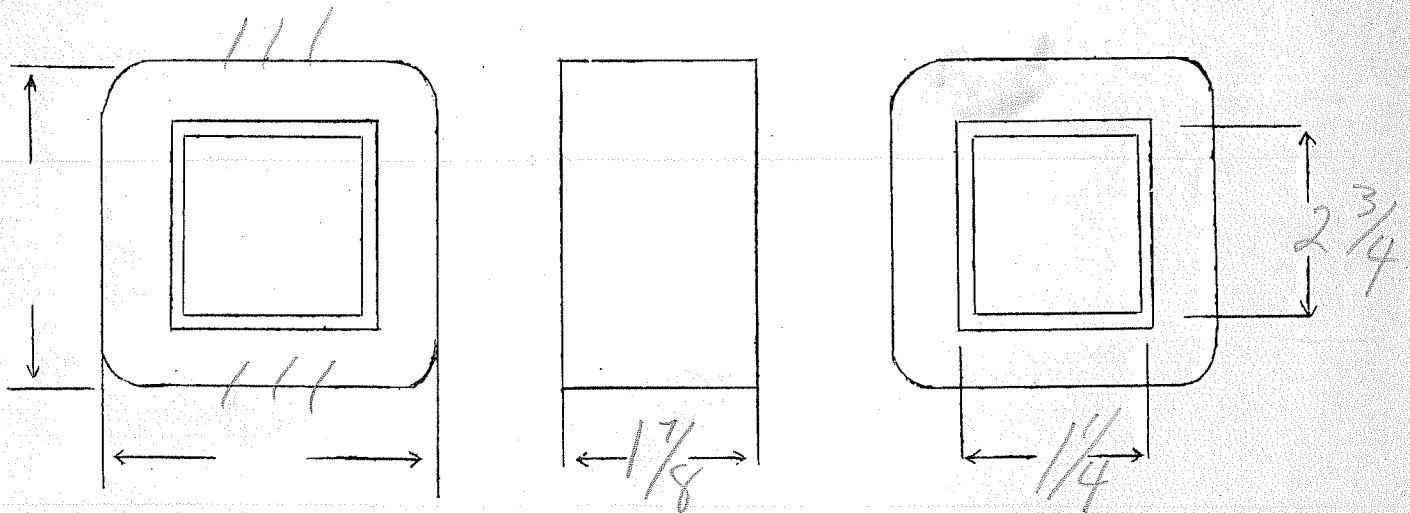
DATE *5/20/37*

Pri. - P.P. parallel 46 or 59 plates
 Sec. - 3,500 Ohms - 240 D. C. Ma.
 or 5,000 Ohms

SPEC. NO. S514

Winding	Pri	Sec					
Turns	2250	2880					
Taps	1125	2430					
Wind. Lgth.	1 ⁵ / ₈	1 ¹ / ₂					
Wire Size	#30	#29					
T.P.L.	142-16	103-28					
Kind Term.	Wire	Only					
Term. Lgth.	6"	6"					
Layer Insul.	30 [#]	30 [#]					
Test Volt.	2500	5000V					
Wrapper	3L007VC 44GL	2L007VC 2L007GA					

TUBE	7L007GKT-1L007VC	IMPREGNATION	VARNISH
CORE	1/4 X 2 3/4 24 Ga D	PRIMARY V.A.	
MOUNTING	J	0.025" gap	



DESIGNED BY G. W.

DATE

PP. Class B 210, 830, 841 plates to modulator

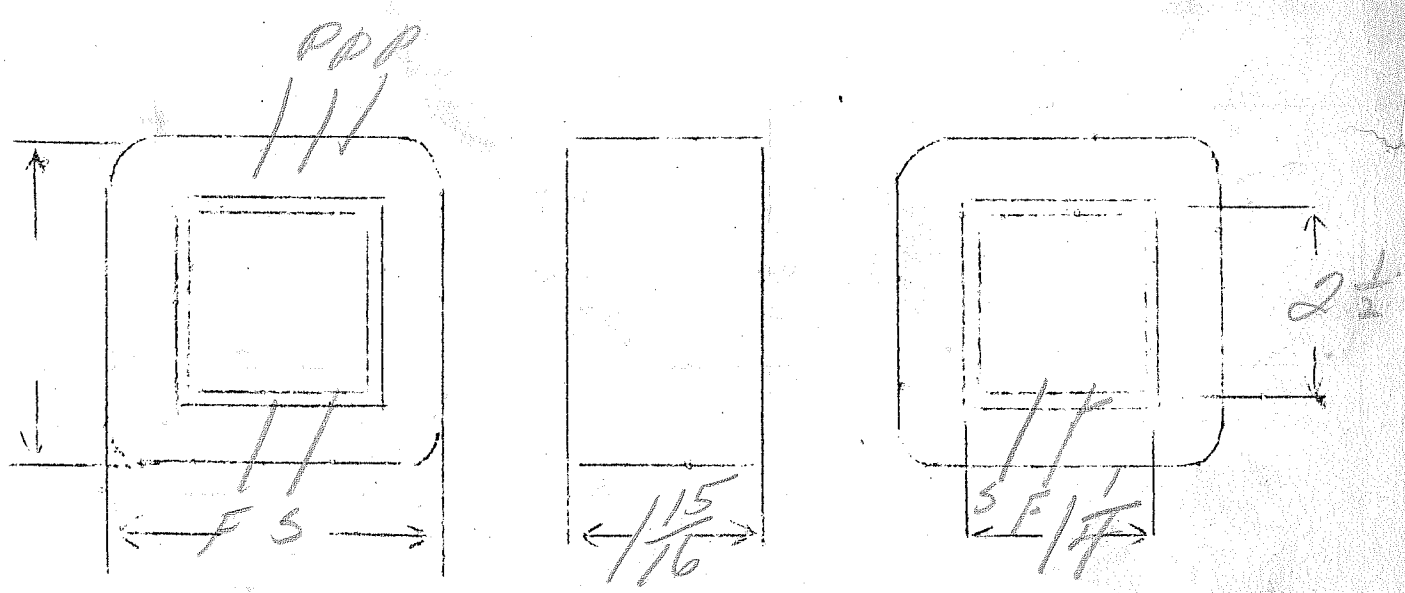
Pri- 8000

4500 or 18,000 ~
25 or 150 Ma

Sec. 5000V. Ins

SPEC. NO. 515

Winding	PRI	SEC ₁	SEC ₂				
Turns	3400	2600	2600				
Taps	1700	—	—				
Wind. Lgth.	1 5/8	1 5/8	1 5/8				
Wire Size	#32	#32	#32				
T.P.L.	170-30	170-16	170-16				
Kind Term.	sil Braid - placed by borders						
Term. Lgth.	5"	5"	5"				
Layer Insul.	double 16#	—	—				
Wrapper	21007VC 31 Blum	21007VC	21007VC 21007CA				
TUBE	7L007+1L007VC		IMPREGNATION	VARNISH			
CURE	1 1/4 x 2 1/2		Exp. 0.10"	26 00			



Pri. - P.P. Class B 800, RK18, 825's
 Sec. - 5,000 Ohms - 200 D. C. Ma.
 or 20,000 Ohms - 100 D. C. Ma.

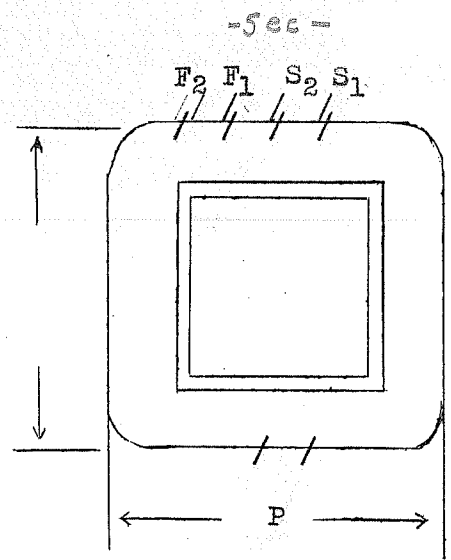
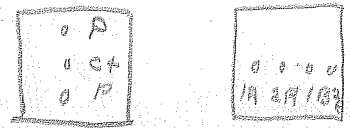
OLD

SPEC. NO. S516

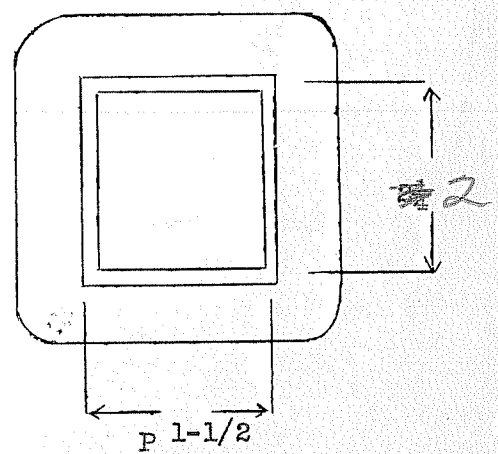
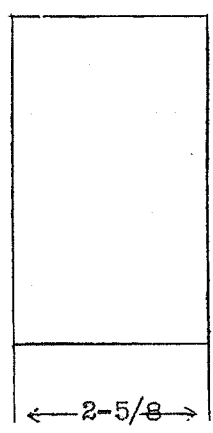
Winding	SEC	PRI	SEC			
Turns	1720	2600	1720			
Taps		1300				
Wind. Lgth.	1-3/4	✓	✓			
Wire Size	#30	#30	#30			
T.P.L.	145-12	145-18	145-12			
Kind Term.	WIRE ONLY					
Term. Lgth.	4"	4"	4"			
Layer Insul.	double 30#					
Test Volt.	7500	✓	✓			
Wrapper	3L007VC 4LG1	3L007VC 4LG1	3L007VC 2L005GA			

TUBE	9L007 - 2L007VC	IMPREGNATION	VARNISH
CORE	1 1/2 x 2 1/4 - .020" Gap - 24 Ga <i>Dynamo</i>	PRIMARY V.A.	
MOUNTING	J		

WATCH LEAD POSITION



Keep Lead Out of Corners



DESIGNED BY G. W.

DATE 4/8/37

Pri. - P.P. Class B 03A, 11 plates
 Sec. - 2,500 Ohms - 400 D. C. ma.
 or 10,000 Ohms - 200 D. C. Ma.

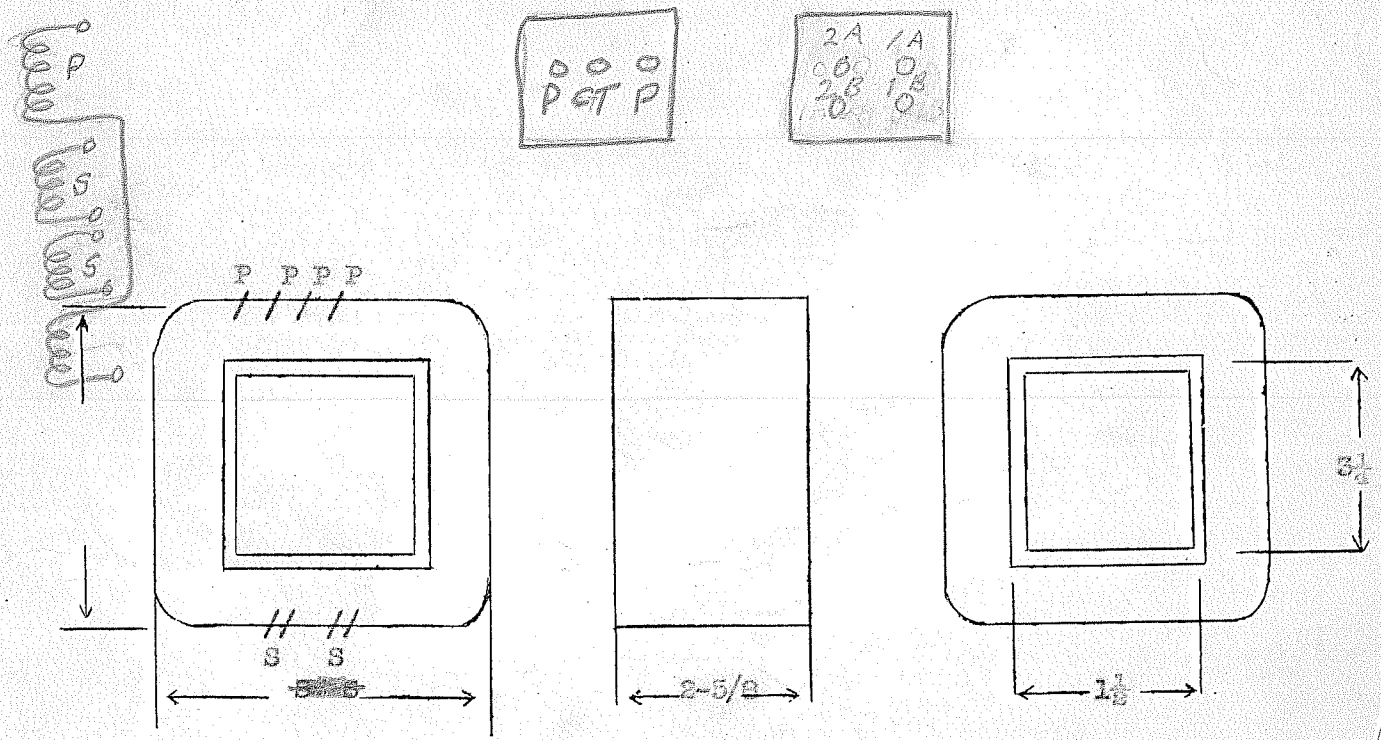
400 watts

SPEC. NO. 8517

Winding	P ₁	S ₁	S ₂	P ₁			
Turns	960	1150	1150	960			
Taps							
Wind. Lgth.	2"						
Wire Size	#27	#27	#27	#27			
T.P.L.	120-8	120-10	120-10	120-8			
Kind Term.		WIRE ONLY					
Term. Lgth.	6"	6"	6"	6"			
Layer Insul.	double 207	40 th 207					
Test Volt.		7500					
Wrapper	4L007VC	4L007VC	4L007VC	3L007VC 3L005GA			

TUBE	9L007 - 1L007VC	IMPREGNATION	VARNISH
CORE	1 1/2 x 3 1/4 - Batt Stock, .020" Gap	PRIMARY V.A.	
MOUNTING	J		

Lamination



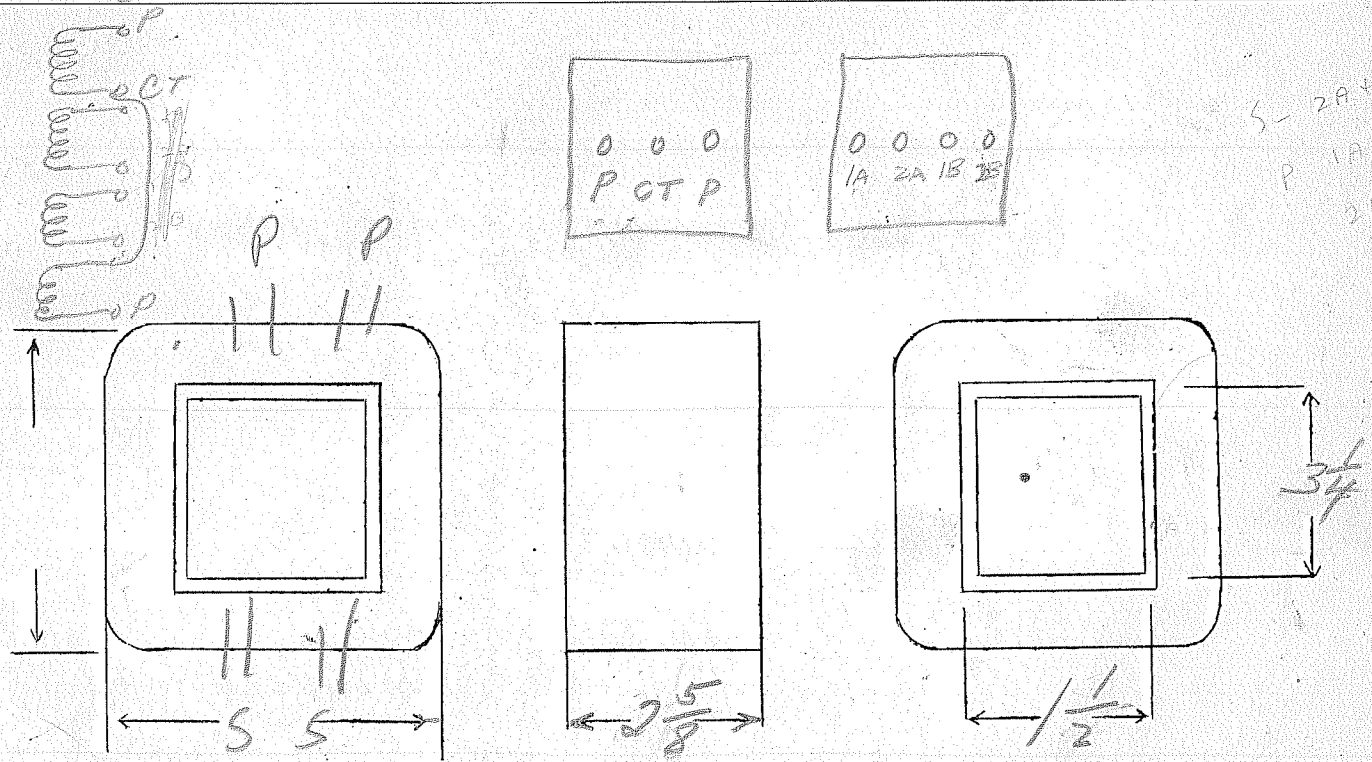
Pri - 20,000 Ω
 PP Plates Class B Eimac 50T to two - 2,500 Ω , 200ma
 series - 10,000 Ω , 200ma
 parallel - 2,500 Ω - 400ma
 SPEC. NO. 518 roundup

Winding	PRI	SEC ₁	SEC ₂	PRI		
Turns	1500	1150	1150	1500		
Taps	—	—	—	—		
Wind. Lgth.	2"	2	2	2		
Wire Size	#28	#27	#27	#28		
T.P.L.	137-11	120-10	120-10	137-11		
Kind Term.	WIRE ONLY					
Term. Lgth.	6"	✓	✓	✓		
Layer Insul.	double 20 #	✓	✓	✓		
Test Volt.	7500	7500	✓	✓		
Wrapper	4L007VC	4L007VC	4L007VC	3L007VC 3L00578A		

TUBE | 9L007+1L007VC | IMPREGNATION | Varnish

CORE | 1 1/2 x 3 1/4 - Butt stud, no gap | PRIMARY V.A.

MOUNTING



DESIGNED BY: *GW*

DATE: 4/5/37

7000 Ω Primary to 7000 Ω Secondary @ 35 ma.
 5 max. Audio Watts

OLD

42 or 2A5 pentode to Suppressor or Control Grid.

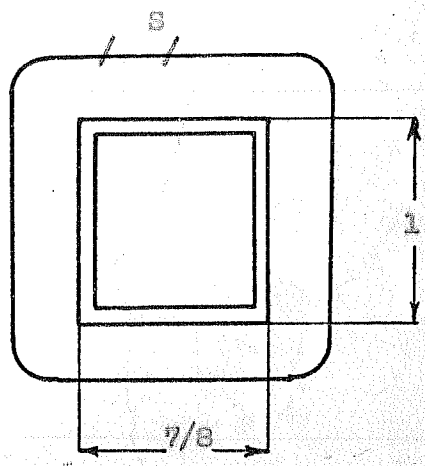
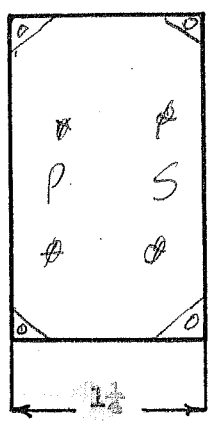
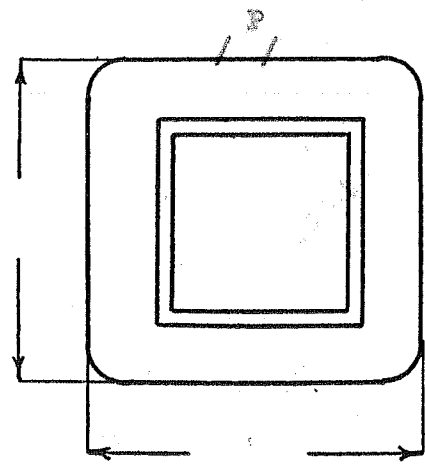
SPEC. NO. S-519

Winding	P	S				
Turns	3050	3050				
Taps						
Wind. Lgth.	1-1/16					
Wire Size	#26	#36				
T. P. L.	175-22	175-22				
Finish						
Type Lead	Sil.	Br.				
Lead Lgth.	6"	6"				
Layer Insul.	20/	20/				
Test Volt.	2500	1250				
Wrapper	1L007W	5L005GA				

TUBE 6L007 IMPREGNATION VARNISH

CORE GA. 29 GRADE B STACK .005" gap

MOUNTING F



DESIGNED BY CW

DATE 6/29/38

Special duty television
Vertical Output

New stock

D.C. Pri current = 15ma max.

DESIGN AND TEST DATA

SPEC. NO. T 520

Replacement for RCA 204T2 or 204T9

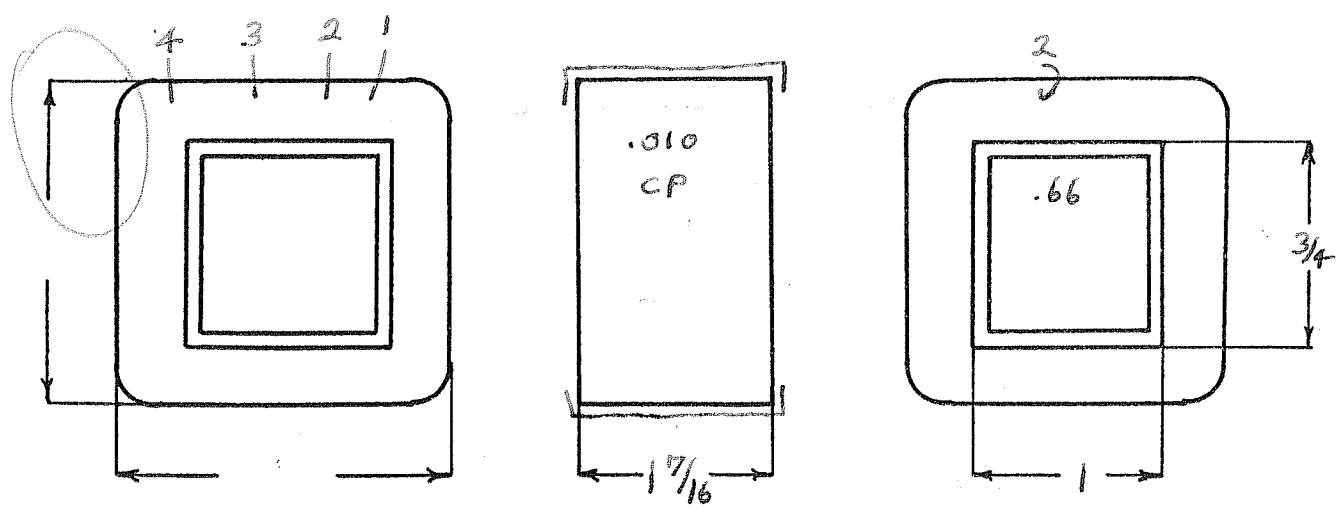
Winding	1-2 Pri	3-4 Sec					
Turns	4480	448					
Taps	—	—					
Wind. Lgth.	1 1/4	1 1/4					
Wire Size	#36	#26					
T. P. L.	195-23L	56-8L					
Finish Pitch	88%	77%					
Type Lead	#22 Dulac	#22 P.B.					
Lead Lgth.	16"	11"					
Layer Insul.	20#	40#					
Test Volt.	2500	1000					
Wrapper	3L005VC	2L005GA					

TUBE 5L010GK+1L005VC IMPREGNATION Varnish

CORE 1 x 3/4 GA. 24 GRADE D STACK Butt

MOUNTING BB

77% RE-DESIGNED 11-11-49



DESIGNED BY A. Hadley

DATE 8-6-49

DESIGN AND TEST DATA

Rating: T_R *Pri* - *Sec*
 T 4480 - 448

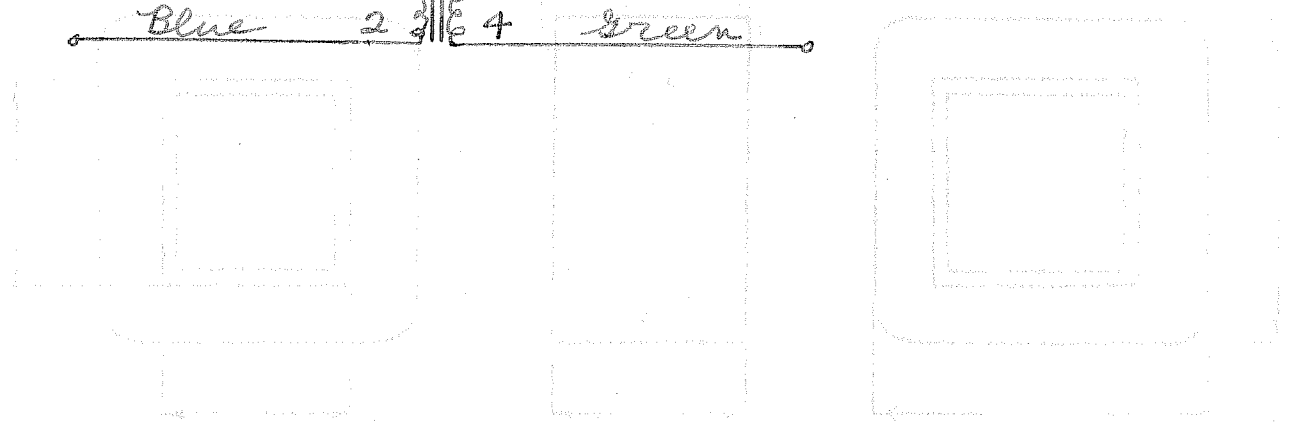
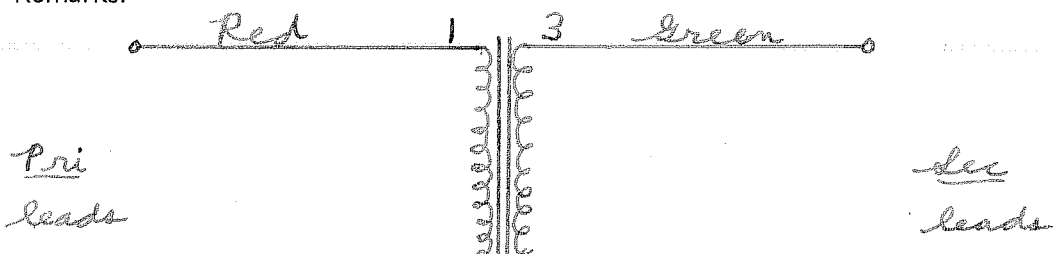
Winding	1-2 <i>Pri</i>	3-4 <i>Sec</i>				
Mean Turn	4.47	5.71				
Resistance 25° c	708	8.8				
Pounds Copper	.1295	.167				
Copper Density	—	—				
Ratio Volts <i>open circuit</i>	117	11.7				
Test to Ground	2500	1000				

Iron Induction 2.77 Kg @ 50 Cycles with 117 volts on 1-2

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:



Special Duty Television

New stock

Vertical Output

DESIGN AND TEST DATA

SPEC. NO. T520

Replacement for RCA 204T2 or 204T9

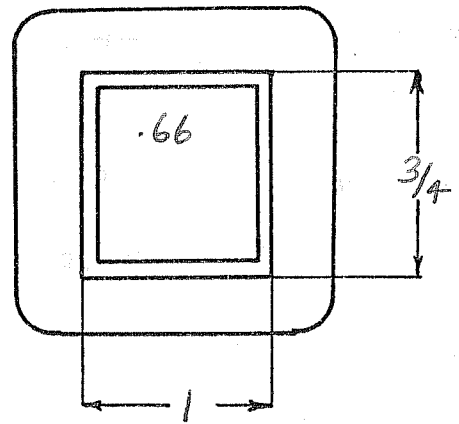
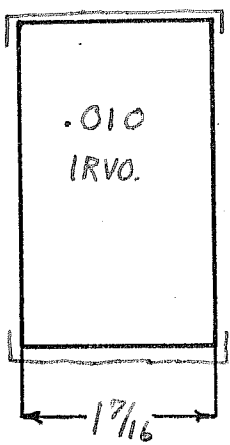
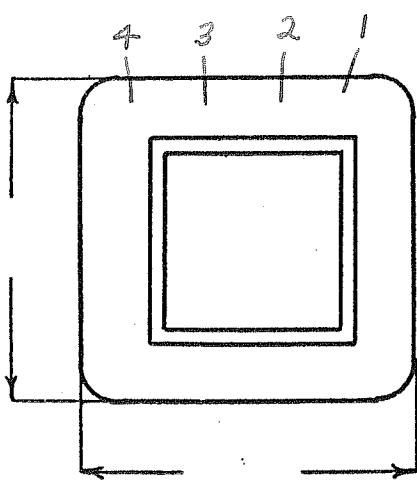
Winding	1-2 Pri	3-4 Sec					
Turns	4640	464					
Taps	—	—					
Wind. Lgth.	1 1/4	1 1/4					
Wire Size	#35	#25					
T. P. L.	179-26L	58-8L					
Finish Pitch	89%	89%					
Type Lead	#22 Dulas	#22 P.B.					
Lead Lgth.	16"	11"					
Layer Insul.	20#	40#					
Test Volt.	2500	1000					
Wrapper	2L003CA 3L005VC 1L40#	2L005GK 2L005GA					

TUBE 5L 0106K+1L005VC 1L003CA IMPREGNATION Tarnish

CORE 1 X 3/4 GA. 29 GRADE A STACK Butt - no lap

MOUNTING BB - leads

wn = 87.5%



RE-DESIGNED BY A. Hadley

DATE 11-11-49

DESIGN AND TEST DATA

Rating:

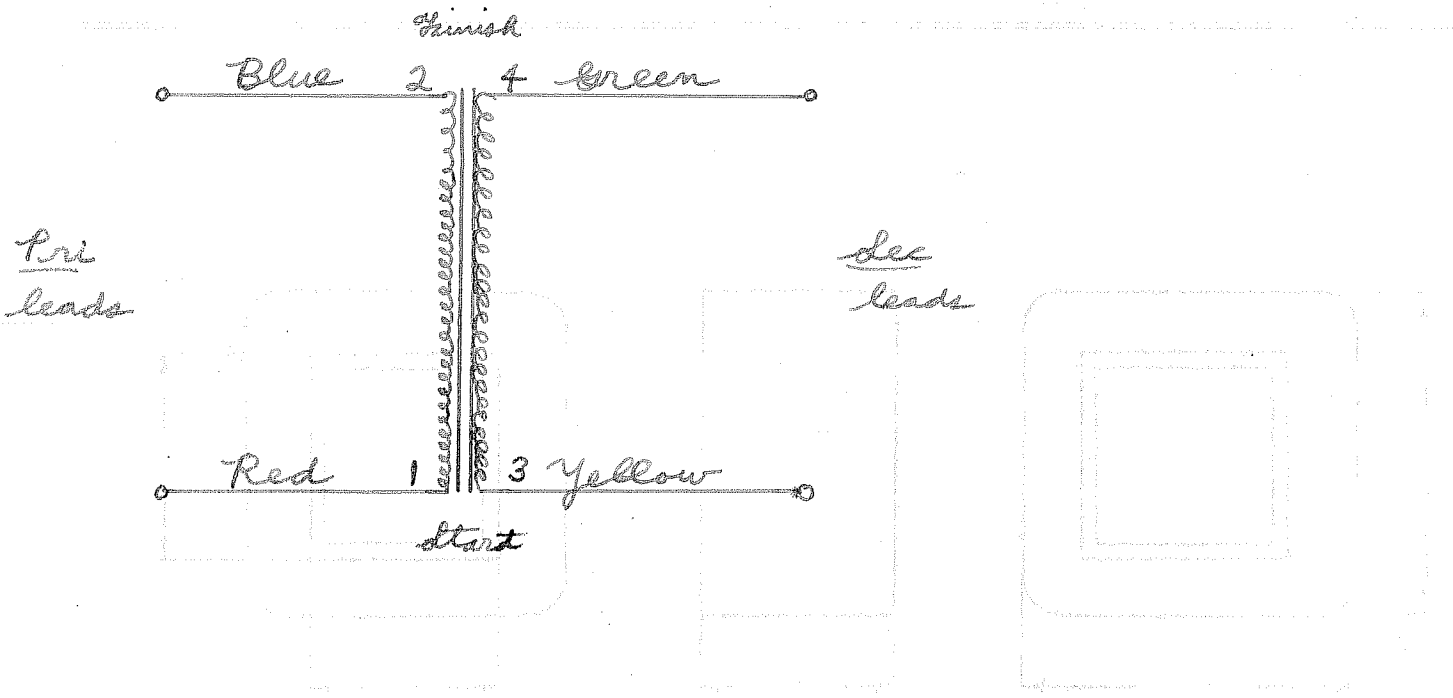
Winding	1-2 <i>Pri</i>	3-4 <i>sec</i>					
Mean Turn	4.60	6.04					
Resistance 25° c	596	7.8					
Pounds Copper	.174	.230					
Copper Density	-	-					
Ratio Volts <i>open circuit</i>	117	11.7					
Test to Ground	2500	1000					

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:



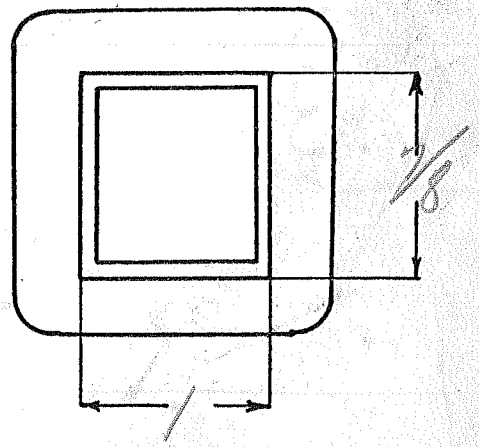
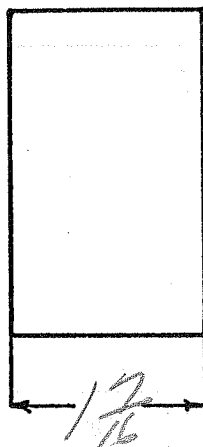
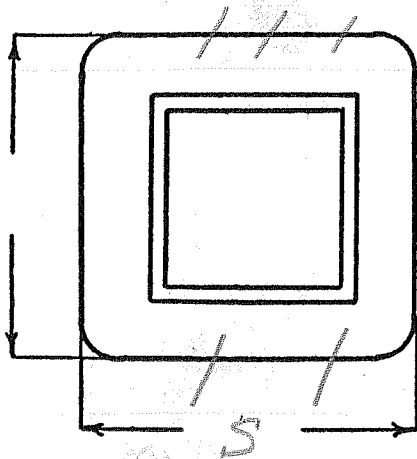
PP 42 or 2A5 to suppressor or control grid

OLD

SPEC. NO. 5520

Winding	P	S					
Turns	4000	4000					
Taps	2000	—					
Wind. Lgth.	1.25	1.25					
Wire Size	#35	#35					
T. P. L.	182-22	182-22					
Finish							
Type Lead	Sil Br.						
Lead Lgth.	4"	4"					
Layer Insul.	20#	20#					
Test Volt.							
Wrapper	14005 VP 6 LGR.	2L005GA					

TUBE	5L007	IMPREGNATION	Varnish
CORE	GA. 29	GRADE B	STACK 2x2
MOUNTING	F		



DESIGNED BY

gw

DATE

7/12/39

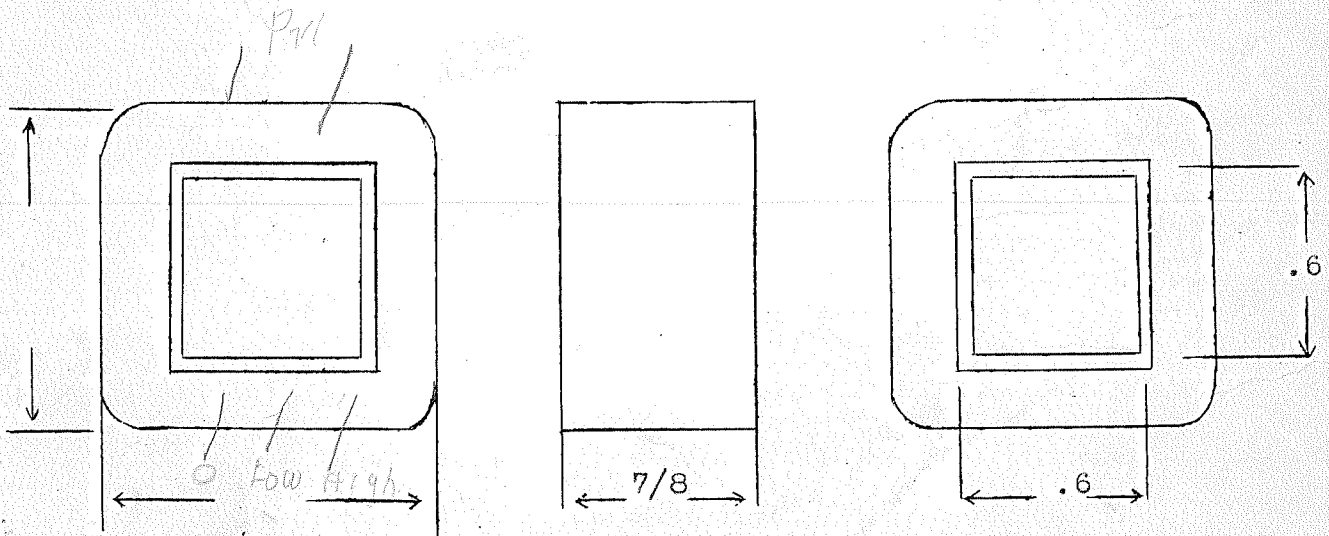
Tranciever output, single pentode to low or high impedance phones

OLD

SPEC. NO. D522

Winding	PRI	SEC					
Turns	2500	1360					
Taps		950					
Wind. Lgth.	$\frac{3}{4}$	$\frac{3}{4}$					
Wire Size	#38	#33					
T.P.L.	157-16	88-16					
Kind Term.	Sil Braid						
Term. Lgth.	3	3					
Layer Insul.	16#	30#					
Test Volt.							
Wrapper	1L007VC	2L005Ga					

TUBE	4L007	IMPREGNATION	VARNISH
CORE	.6 x .6	.003" Gap	PRIMARY V.A.
MOUNTING	D		



Horizontal blocking oscill. transf.

TR PRI. TO: SEC. = 1:2

SPEC. NO. T-522

REPLACEMENT FOR R.C.A. 208T1

Winding	1-2 SEC.	3-4 PRI.				
Turns	336	168				
Taps	—	—				
Wind. Lgth.	15/32	15/32				
Wire Size	#32	#32				
T. P. L.	42-8L	42-4L				
Finish PITCH	78%	78%				
Type Lead	#22 P.B.	#22 P.B.	← #26 AUDIO			
Lead Lgth.	6"	6"				
Layer Insul.	DOUBLE #30 50#	DOUBLE #30 50#				
Test Volt.	1500	1500				
Wrapper	1L003CA 1L 50# 2L005VC	2L005GA				

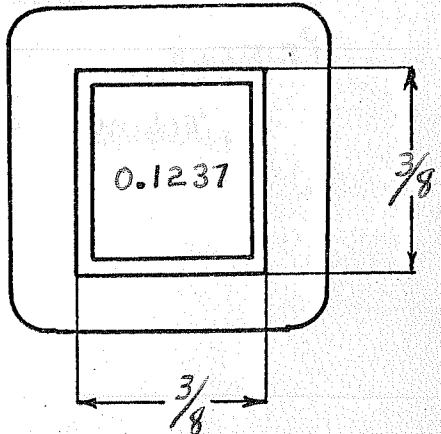
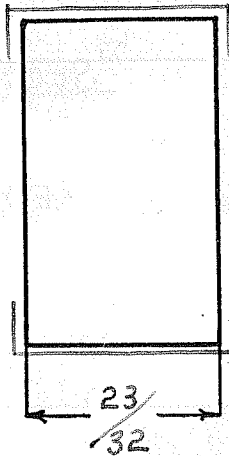
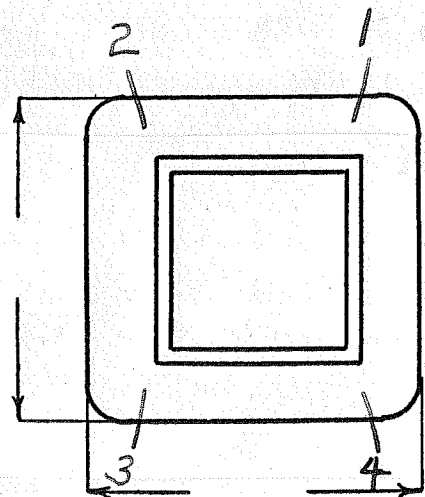
TUBE 5L010 GK IMPREGNATION VARNISH

CORE 3/8 X 3/8 F-12 GA. 29 GRADE A STACK 2X2

MOUNTING D-LEADS ; P

W_n = 68%

50 T #12 wire
Crest units
Santa Fe Spring



DESIGNED BY A.R. Shasky

DATE 9-6-49

DESIGN AND TEST DATA

Rating: **Turns Ratio:** **PRI. To SEC.** = 1:2

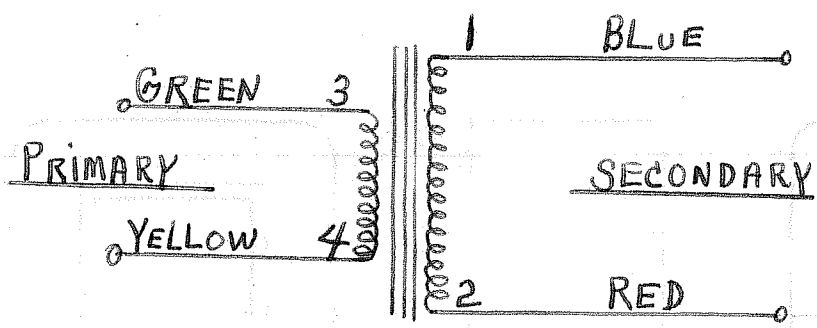
Winding	1-2 SEC.	3-4 PRI.				
Mean Turn	2.22	2.82				
Resistance 25° c	10.4	6.6				
Pounds Copper	0.0121	0.0077				
Copper Density	—	—				
Ratio Volts <small>OPEN CIRCUIT</small>	5.0	2.5				
Test to Ground	1500.	1500.				

Iron Induction 8.4 Kg @ 50 Cycles with 5 VOLTS on 1-2

Exciting Current 4 ma amperes @ 25 volts 60 cycles on

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks: SECONDARY:
Loc = 0.174 HENRY @ 2.0 VOLTS & 1000 C.P.S.
CALCULATED



SPECIAL DUTY TELEVISION

NEW

Horizontal blocking osc. transf.

Tr. Pri. to: Sec = 1:2

SPEC. NO. T-522

REPLACEMENT FOR RCA 208T1

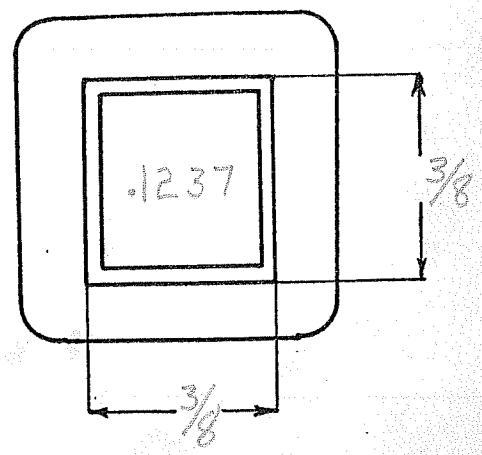
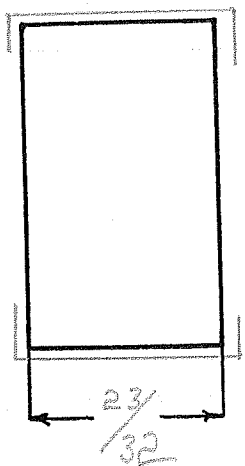
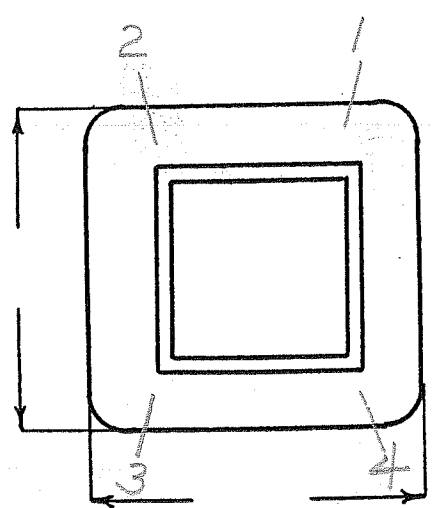
Winding	1-2 SEC.	3-4 PRI				
Turns	336	168				
Taps	—	—				
Wind. Lgth.	15/ 32	15/ 32				
Wire Size	#32	#32				
T. P. L.	42-8L	42-4L				
Finish	78%	78%				
Type Lead	#22 P.B.	#22 P.B.				
Lead Lgth.	6"	6"				
Layer Insul.	DOUBLE #30	DOUBLE #30				
Test Volt.	1500	1500				
Wrapper	2L005VC	2L005GA				

TUBE 5L010 GK IMPREGNATION VARNISH

CORE 3/8 X 3/8 GA. 29 GRADE A STACK 2X2

MOUNTING D-LEADS, P

$W_n = 68\%$



DESIGNED BY A.R. SHASKY

DATE 8-6-49

DESIGN AND TEST DATA

Rating: Turns Ratio : PRI. To SEC = 1:2

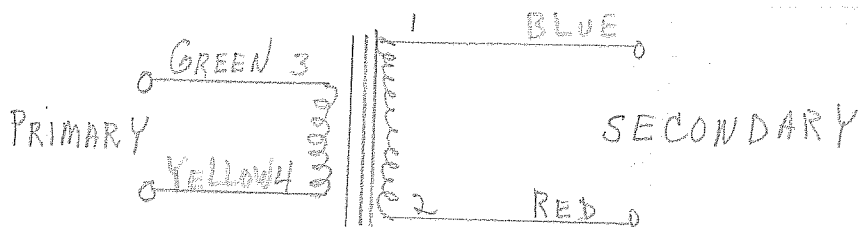
Winding	1-2 SEC	3-4 PRI.					
Mean Turn	2.22	2.82					
Resistance 25° c	10.4	6.6					
Pounds Copper	.0121	.0077					
Copper Density	—	—					
Ratio Volts <small>open circuit</small>	5	2.5					
Test to Ground	1500	1500					

Iron Induction: 8.4 Kg @ 50 Cycles with 5 Volts on 1-2

Exciting Current: _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles on _____ with _____ grounded

Remarks: Sec. L_{o.c.} = 0.174 HENRY @ 2V & 1000 C.P.S.



200 in 500 to T.P. Grids
Audio

SPEC. NO. S-523
(SIMILAR TO #7824)

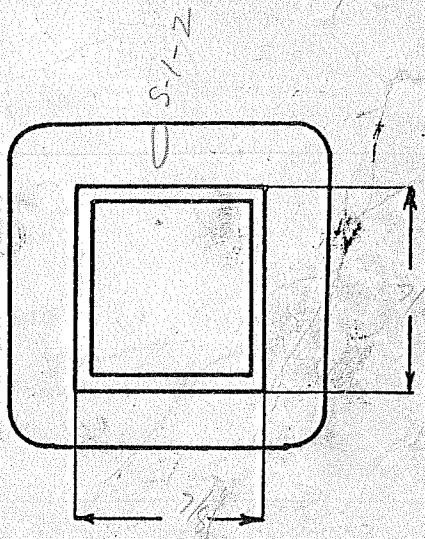
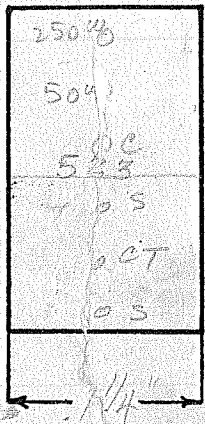
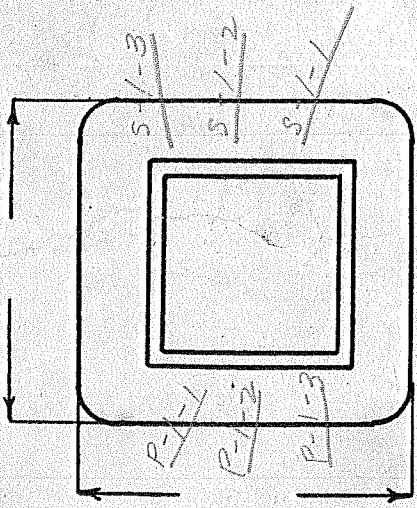
Winding	Sec	Pri				
Turns	10,640	440				
Taps	CT 5,320	CT 220				
Wind. Lgth.	1 1/16"	1 1/16"	= 1.06"			
Wire Size	#40	#26				
T. P. L.	280-380	55-80				
Finish	88%	88%		FINISHERS		
Type Lead	#22 PR BR SIL. BR.	#22 PR BR SIL. BR.		USE #22 PR BR FOR "A" MOUNTING		
Lead Lgth.	"9 "40 (W)	"9 (Cut) "4		USE SIL. BR. FOR "F" MOUNTING		
Layer Insul.	1L 154 G.	1L 104 G.				
Test Volt.	1250					
Wrapper	1L .005" VC 2L 40-16.6	2L 0056A				

TUBE 6K-007 BK IMPREGNATION Varnish

CORE 2 1/2" F.I. GA. 29 GRADE B STACK 2 X 2

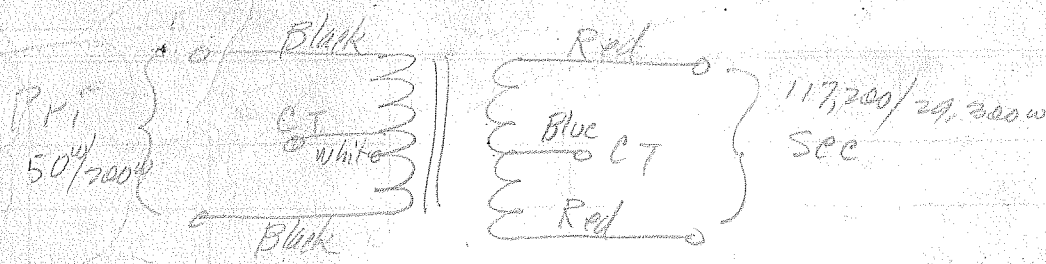
MOUNTING "A" or "F" Leads

Wire Net = 0.310 (0.303')



DESIGNED BY H.H.H.

DATE 10-9-41



$$T = 10,640 - 440$$

$$T_R = 24.2 - 1$$

$$Z_R = 586 - 1$$

$$Z = 117,200 - 200$$

$$\frac{117,200}{4} = 29,300W$$

$$\frac{200}{4} = 50W$$

$P_{PI} = 28$

$S = 330$

Special Duty Television
Vertical Blocking Oscillator

New Spec

AT&T TEST Q&A METHOD

Replacement for RCA 208T2 & 208T9

SPEC. NO. T524

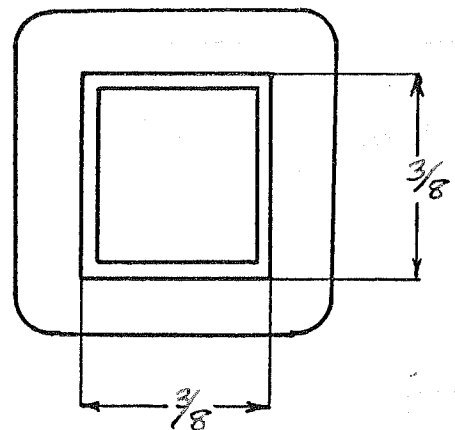
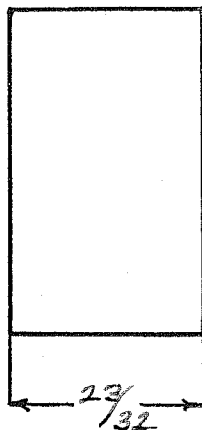
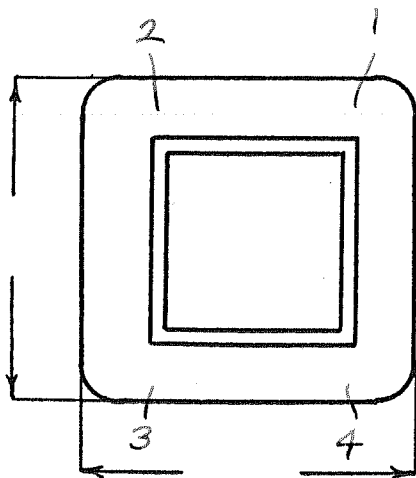
Winding	1-2 Pri	3-4 Sec				
Turns	927	3900				
Taps	—	—				
Wind. Lgth.	15/32	15/32				
Wire Size	#40	#41				
T. P. L.	116-8L	130-30L				
Finish Pitch	87%	86%				
Type Lead	#26 Audio	#26 Audio				
Lead Lgth.	cut 8"	cut 8"				
Layer Insul.	12 1/2 #	12 1/2 #				
Test Volt.	2000	2000				
Wrapper	1L003CA 1L20#	1L003CA 1L007GA				

TUBE 4L0106K + 1L003CA IMPREGNATION Varnish

CORE 11/32 x 3/8 (F-12) GA. 29 GRADE A audio STACK 4x4

MOUNTING D-leads P-H W D mtg studs 6-32 P Craft
or 2 1 7/8 1 7/8 1 5/32 center to center or #87-1 can

win = 83%



RE-DESIGNED BY A. Hadley

DATE 4-30-51

DESIGN AND TEST DATA

Rating: T_R 1 7.2
 7 927 3900

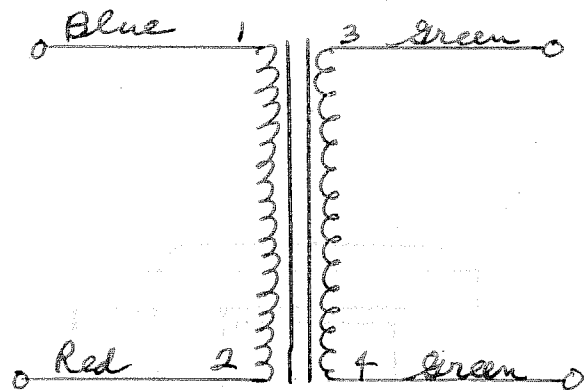
	1-2 <i>Pri</i>	3-4 <i>Sec</i>				
Winding	<i>Pri</i>	<i>Sec</i>				
Mean Turn	1.95	2.52				
Resistance 25° c	161.0	108.8				
Pounds Copper	.0047	0.020				
Copper Density	—	—				
Ratio Volts	21.4	90				
Test to Ground	2000	2000				

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:



Special Army Television
Vertical Blocking Oscillator

new floor

ATAO TEST ON MOUNTAIN

Replacement for RCA 208T2 or 208T9

SPEC. NO. T 524

Winding	1-2 Pri	3-4 sec					
Turns	927	3900					
Taps	—	—					
Wind. Lgth.	15/32	15/32					
Wire Size	#40	#41					
T. P. L.	116-81	130-30L					
Finish <i>Etch</i>	87%	86%					
Type Lead	#26 Audio	#26 Audio					
Lead Lgth.	cut 8"	cut 8"					
Layer Insul.	12 1/2 #	12 1/2 #					
Test Volt.	2000	2000					
Wrapper	1L003CA 1L20#	1L003CA 1L0076A					

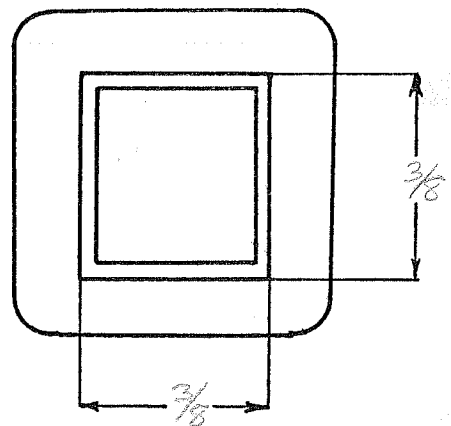
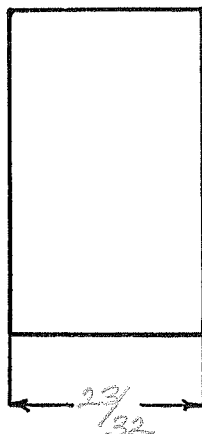
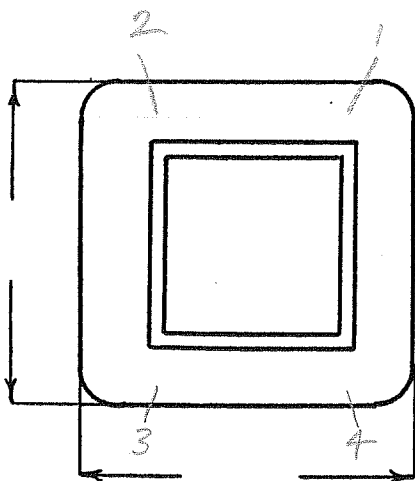
TUBE 4L010GH + 1L003CA IMPREGNATION Varnish

CORE 11/32 x 3/8 (F-12) GA. 29 GRADE A audio STACK 4x4

MOUNTING D-leads or H 2 W 13/8 D 13/8 mty studs 6-32
11/32 center to center

mn = 83%

or # 87-1 Craft Can



RE-DESIGNED BY A. Hadley

DATE 4-30-51

DESIGN AND TEST DATA

Rating: T_R ^{Pri} 1 ^{Sec} 4.2
 T 927 3900

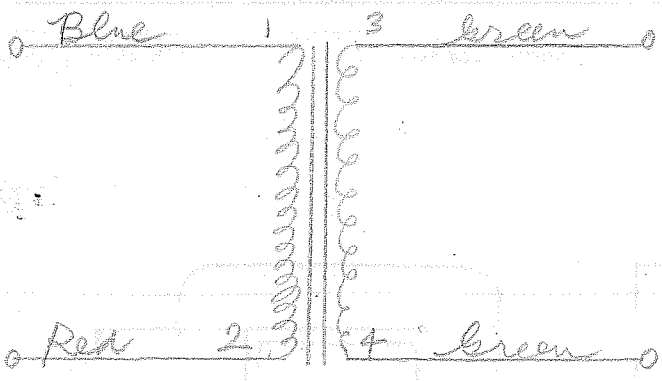
Winding	1-2 Pri	3-4 Sec					
Mean Turn	1.95	2.52					
Resistance 25° c	161.0	108.8					
Pounds Copper	0.0047	0.020					
Copper Density	—	—					
Ratio Volts	21.4	90					
Test to Ground	2000	2000					

Iron Induction @ Cycles

Exciting Current amperes @ volts 60 cycles on

Induced Test: Apply Volts at Cycles on with grounded

Remarks:



Special Duty Television
Vertical Blocking Oscillator

New Stock

ATAQ TEST DATA

OBSOLETE

SPEC. NO. T 524

Replacement for RCA 208 T2 or 208 T9

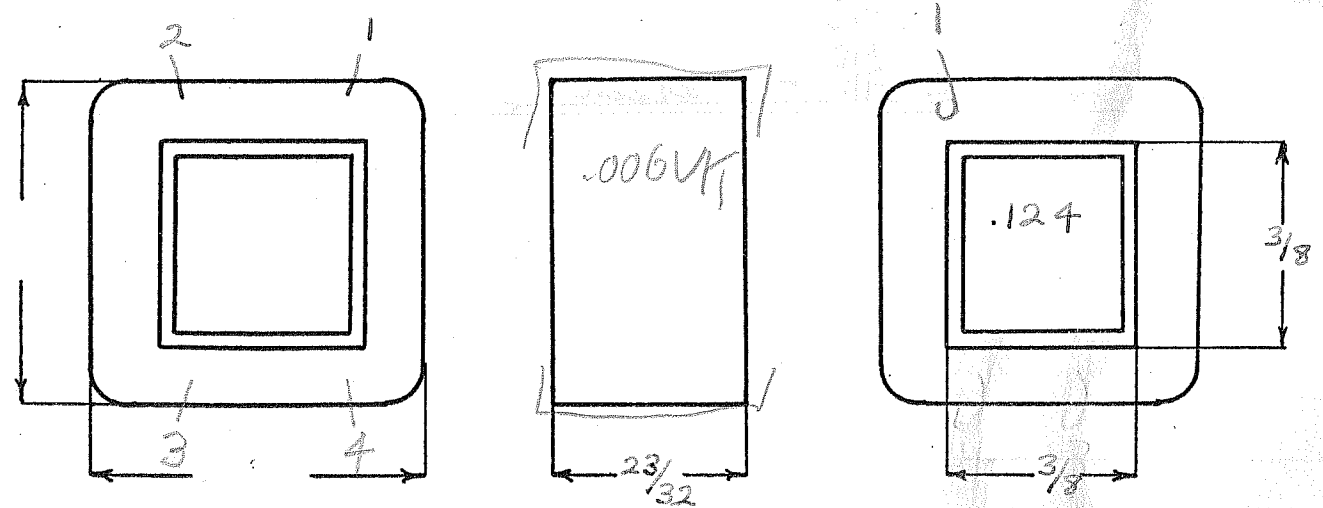
Winding	1-2 Pri	3-4 Sec					
Turns	970	4070					
Taps	—	—					
Wind. Lgth.	17/32	17/32					
Wire Size	#40	#40					
T. P. L.	139-7L	136-30L					
Finish Pitch	92%	90%					
Type Lead	#22 P.B.	#22 P.B.					
Lead Lgth.	cut 8" 14"	cut 8" 14"					
Layer Insul.	12 #	12 #					
Test Volt.	2000	2000					
Wrapper	2L002CA 3L005VC 1L20 #	3L005GA					

TUBE	5L010GK+1L005VC	IMPREGNATION	Varnish
------	-----------------	--------------	---------

CORE	3/8 x 3/8 F-12 GA. 29	GRADE	A	STACK	4 x 4
------	-----------------------	-------	---	-------	-------

MOUNTING D-leads, P-leads

wn = 76% Craft Can



DESIGNED BY A. Hadley

DATE 8-6-49

DESIGN AND TEST DATA

	<i>Pri</i>	<i>Sec</i>	
Rating: T_R	1	4.2	
T	970	4070	

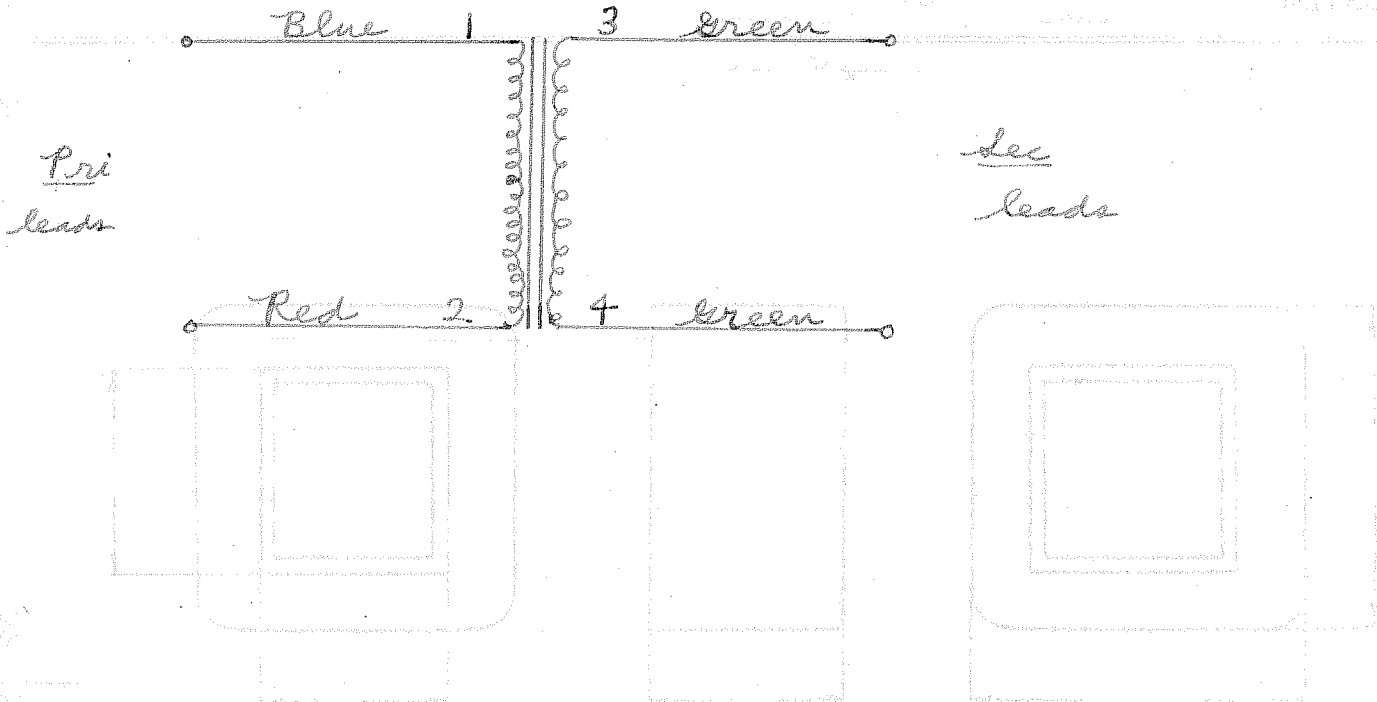
Winding	1-2 <i>Pri</i>	3-4 <i>Sec</i>				
Mean Turn	2.02	2.69				
Resistance 25° c	174.5	975				
Pounds Copper	.005	.0279				
Copper Density	—	—				
Ratio Volts <i>open circuit</i>	21.4	90				
Test to Ground	2000	2000				

Iron Induction 12.5 Kg @ 50 Cycles with 90 volts on 3-4

Exciting Current .0016 amperes @ 90 V. volts 60 cycles on 3-4

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:



Audio, Modula. Output, Class AB₂

Old Stock

Pri - 660w - CT (PP660 or 807)

OK
HWR

Sec - 7500, 5000, 2500 @ 100, 150, 200ma

SPEC. NO. S-524

Operating Level, 30 Watts

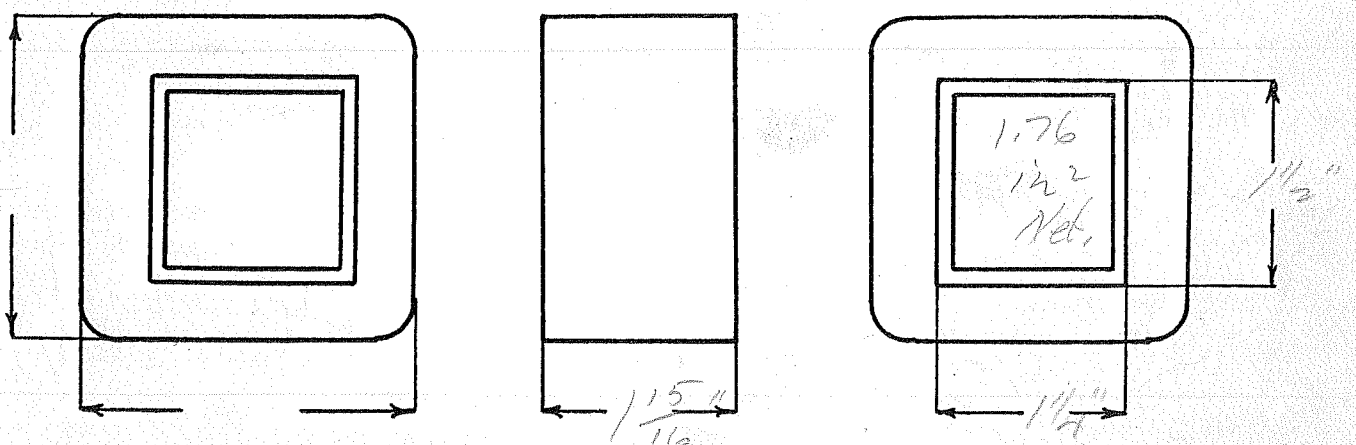
Winding	Pri		Sec		Sec		Sec
Turns	2400		1485		600		600
Taps	CT-1200		—		—		—
Wind. Lgth.	1 5/8" = 1.625"		1 1/2"		1 1/2"		1 1/2"
Wire Size	#30		#28		#30		#32
T. P. L.	134-18L		100-15L		120-5L		120-5L
Finish	Pitch 89%		90%		86%		69%
Type Lead	W.O. Sleeve		W.O. Sleeve		W.O. Sleeve		W.O. Sleeve
Lead Lgth.	6"		6"		6"		6"
Layer Insul.	2L 20#6		1L 30#6		1L 30#6		1L 20#6
Test Volt.	2500		5000		—		—
Wrapper	3L 007VC		3L 30#6		3L 30#6		2L-007VC 2L-0056A
TUBE	7L-0076K+1L-007VC		IMPREGNATION		Double Varui-4		

CORE 1 1/4" x 1 1/2" E/I GA. 26 GRADE D STACK Both - .015" gap

MOUNTING "F" - Lugs Notes: Heavy finishing over mica.

Co = 1000 @ 100ma out Pri.
Wire Net = 0.544" (0.545")
TPV = 5.4
Fe = 47.3 @ 50v, 94.6 @ 25v

Tight winding



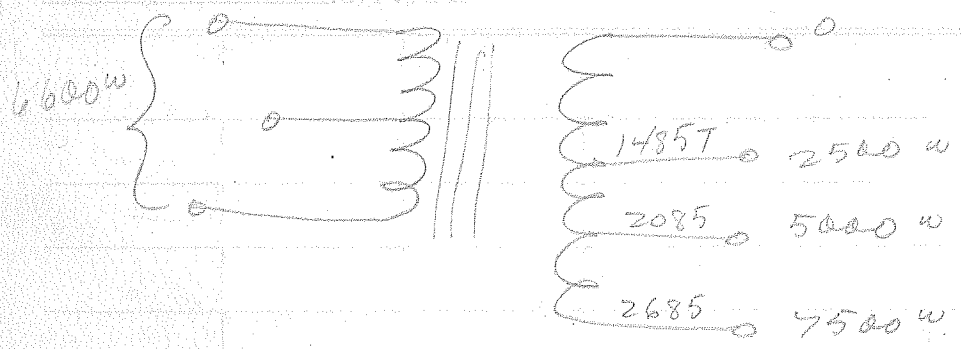
DESIGNED BY HWR

DATE 10-4-41

0046

P_{ui}

ON 2492



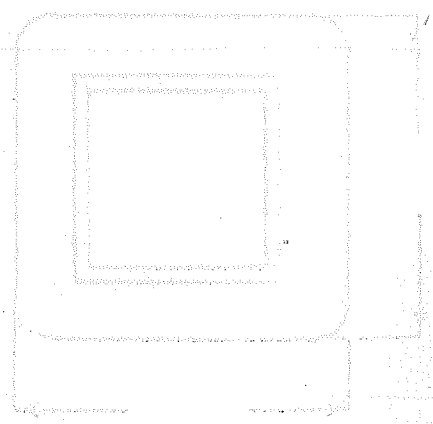
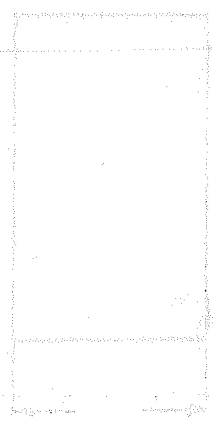
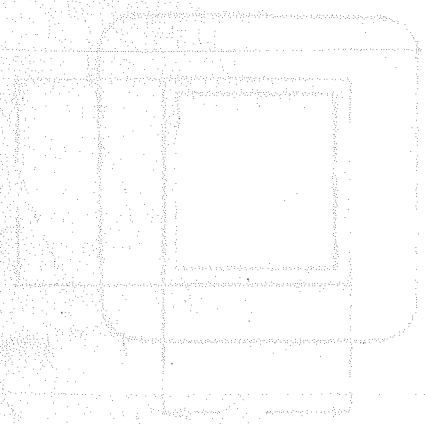
$$Z = 7500 - 6600 - 5000 - 2500$$

$$Z_R = 3 - 2.64 - 2 - 1$$

$$T_R = 1.73 - 1.62 - 1.41 - 1$$

$$T = 2685 - 2420 - 2110 - 1500$$

$$T = 2570 - 2405 - 2093 - 1485$$



DATE

DESIGNED BY

MODULATION

STOCK

P-P 6L6's 6600 ohms CT
 to 2500V @ 200 Ma. D.C. or
 5000V @ 150 Ma. D.C., or 7500V @ 100 Ma. D.C.
 30 watts

SPEC. NO. S524-F

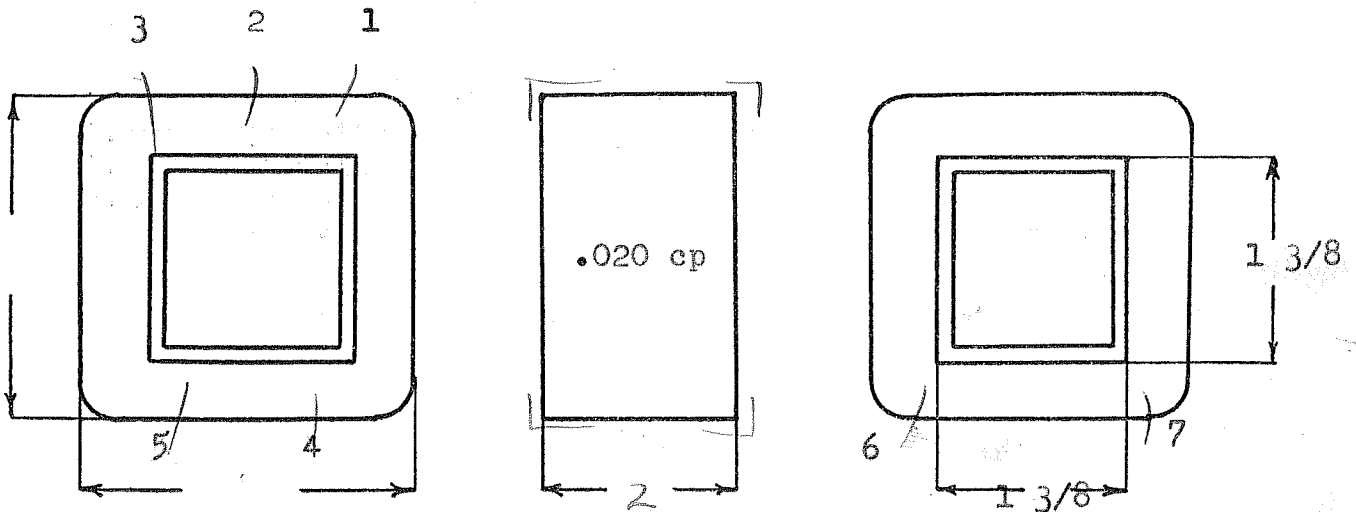
Winding	1-2-3 Pri.	4-5-6-7 Sec.
Turns	2100	2340
Taps	1050	1350-1910
Wind. Lgth.	1 5/8	1 1/2
Wire Size	#30	#29
T. P. L.	132-16L	113-21L
Finish	88%	92%
Type Lead	Silver Braid	Silver Braid Vinyl Sl.
Lead Lgth.	6"	6"
Layer Insul.	30#	30#
Test Volt.	2500	5000
Wrapper	.197 2L007VG- 3L30#-interleaved	.288 2L007VC 2L007GA

TUBE 7L007GK plus 2L003VG IMPREGNATION Varnish

CORE 1 3/8 x 1 3/8 GA. 29 GRADE B STACK Butt .005 gap

MOUNTING FF

T. P. U. -
 window - $.602 / .688 = 87.5\%$



DESIGNED BY *Rewritten*
 F.F.

DATE

DESIGN AND TEST DATA

Rating: Z - 6600 - 7500 - 5000 - 2500
 Zr - 2.69 - 3 - 2 - 1
 Tr - 1.655 - 1.732 - 1.414 - 1
 T -

Winding	Pri.	Sec.			
Mean Turn	6.64	8.62			
Resistance 25° c	123	204			
Pounds Copper	.361	.955			
Copper Density	---	---			
Ratio Volts	67-67	86-122-199			
Test to Ground	2500	5000			

Iron Induction @ Cycles

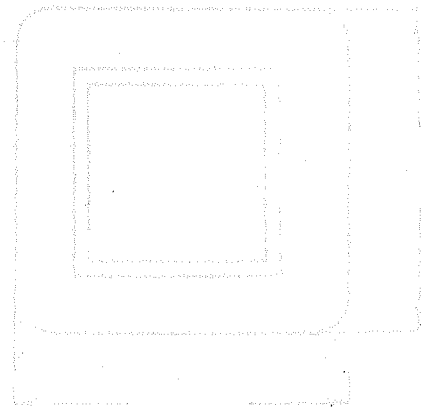
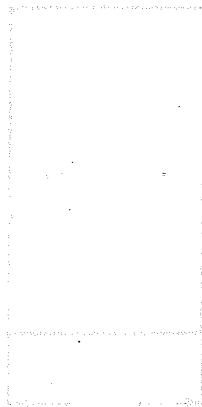
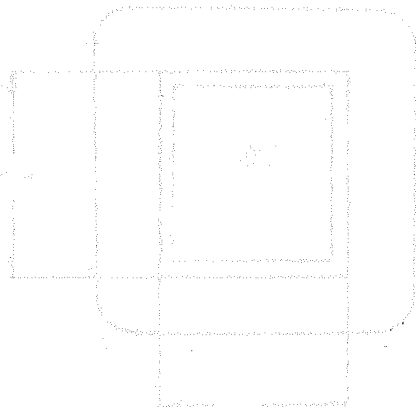
Exciting Current amperes @ volts 60 cycles on

Induced Test: Apply Volts at Cycles on with grounded

Remarks:

01
 02
 03

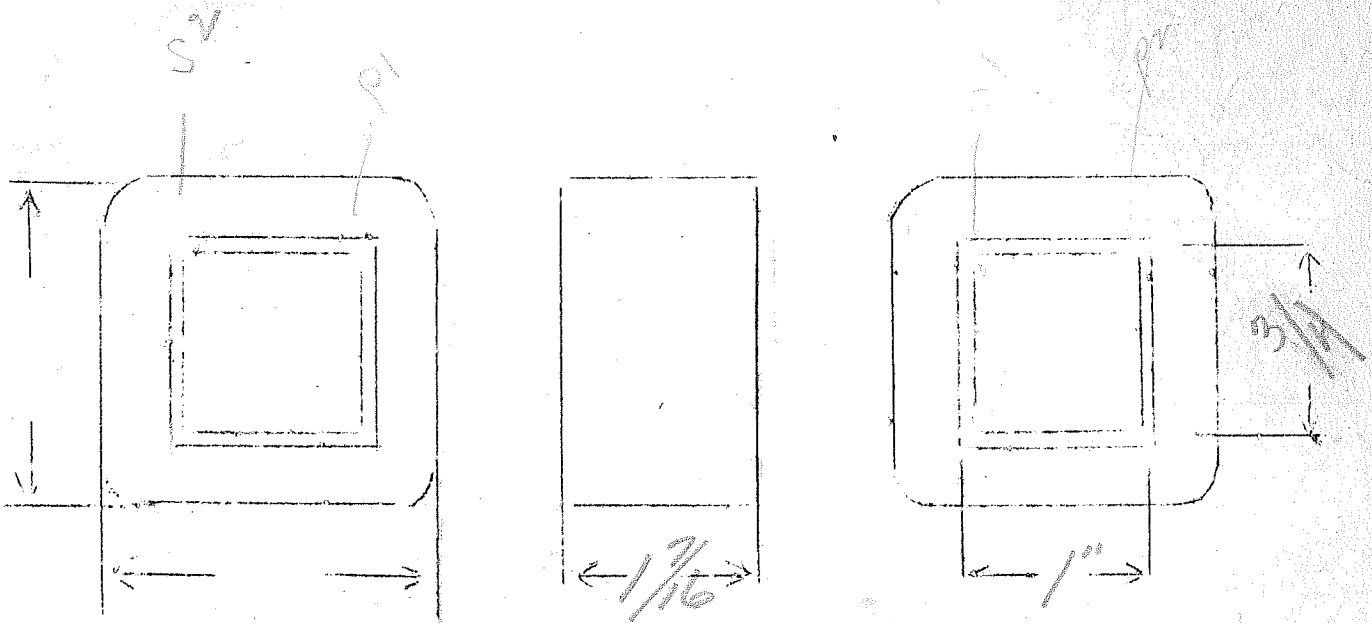
4006
 5000
 5007
 2500 7500



SINGLE PLATE - SINGLE GRID - 3-1

SPEC. NO. 525

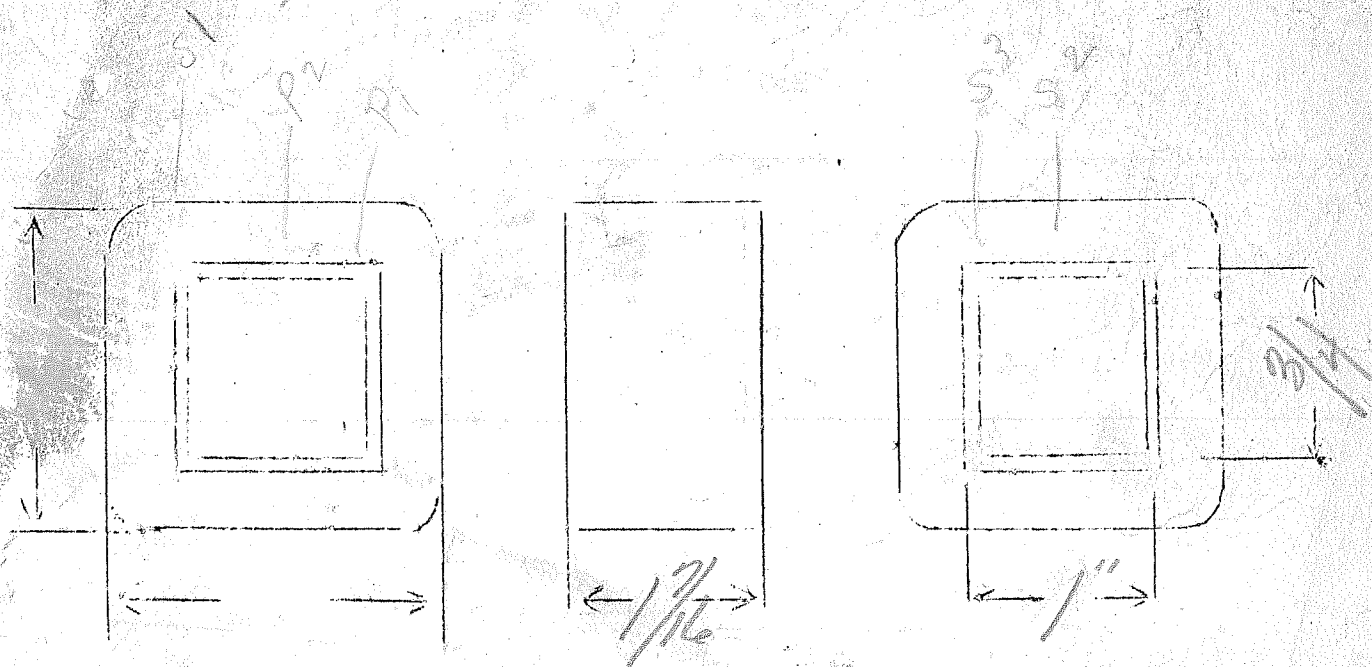
Winding	PRI	SEC				
Turns	3650	10950				
Taps	NONE	NONE				
Wind. Lgth.	1 1/4	1 1/4				
Wire Size	37E	37E				
T.P.L.	225-17	225-19				
Kind Term.	NO20 PRI	NO20 SEC				
Term. Lgth.	9"	9"				
Layer Insul.	206C1	206C1				
Wrapper	21003YP	210056A				
TUBE	4h.007		IMPREGNATION		WAX	
CURE	1" x 3/4 N.W.					



526-

SPEC. NO. 526

Winding	PR1	SEC				
Turns	4000	12000				
Taps	NONE	6000				
Wind. Lgth.	1 1/4	1 1/4				
Wire Size	38E	38E				
T.P.L.	252-16	252-48				
Kind Term.	NO 20 P 31	NO 20 P 31				
Term. Lgth.	9"	9"				
Layer Insul.	2000C1	2000C1				
Wrapper	220031P	220056A				
TUBE	2L 007		IMPREGNATION		WAX	
CURE	1" X 3/4" X 1/4"		340 B Grade			

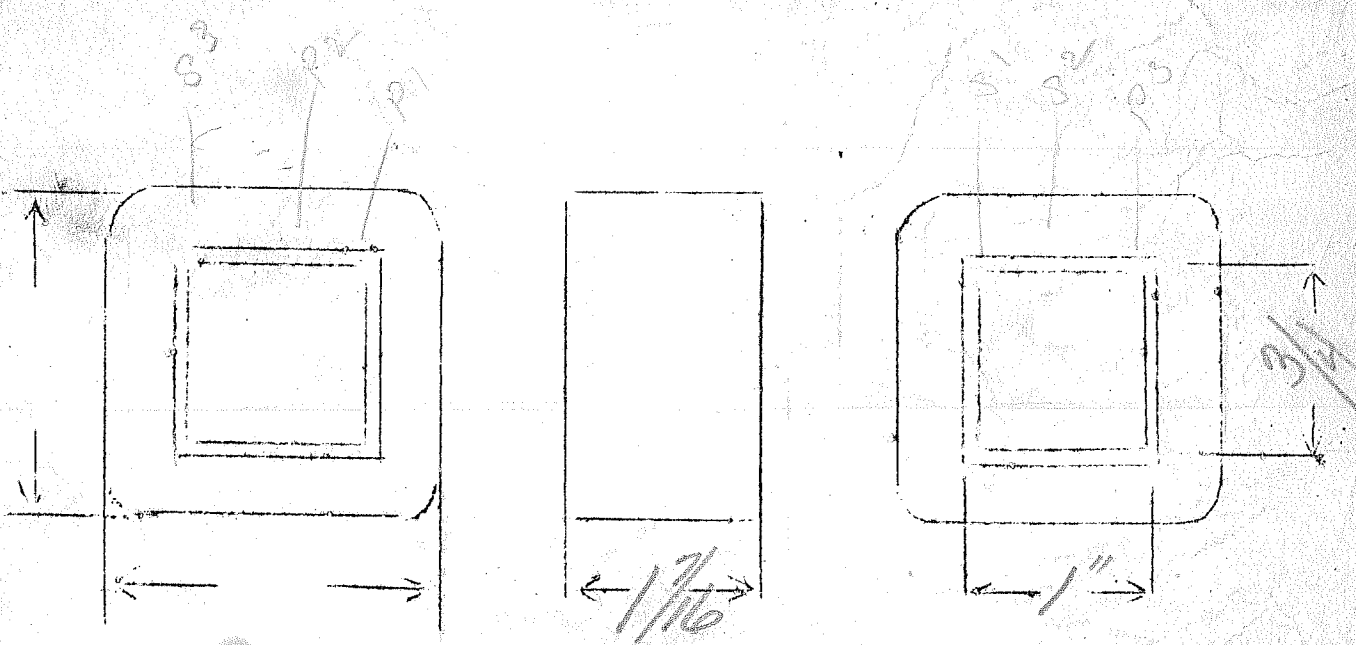


1207
983

P.P.P.T - P.P.GR - 3-1 RATIO

SPEC. NO. 527

Winding	PRI	SEC.				
Turns	3650	10950				
Taps	1825	5475				
Wind. Lgth.	1/4	1/4				
Wire Size	37E	37E				
T.P.L	225-17	225-19				
Kind Term.	NO 20 P.BY	NO 20 P.BY				
Term. Lgth.	9"	9"				
Layer Insul.	206 C1	206 C1				
Wrapper	2100304	2100564				
TUBE	4L 007		IMPREGNATION		MAX	
CURE	1" X 3/4" NYN		2X2 290 B Ynd			



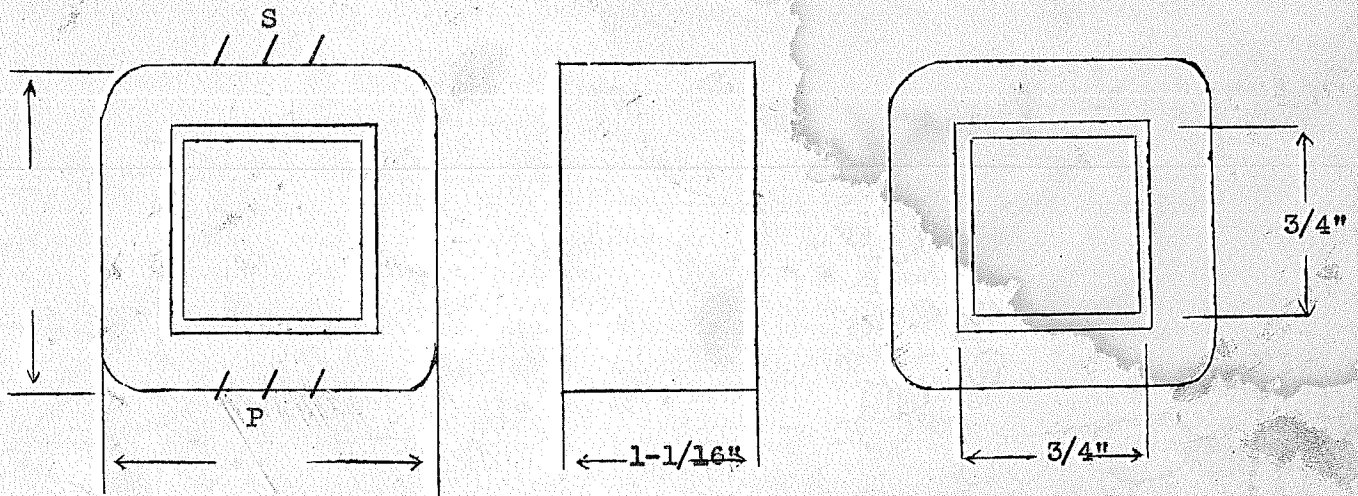
500 or 125 ohm line, or double button mike to grid

OLD

SPEC. NO. D528

Winding	Sec	Pri				
Turns	8400	520				
Taps	4200	260				
Wind. Lgth.	15/16"	15/16"				
Wire Size	#40	#29				
T.P.L.	236-36 233	6-8 657-8				
Kind Term.	Sil Br	W. O.				
Term. Lgth.	3"	3"				
Layer Insul.	16# 12#	30#				
Test Volt.	—	—				
Wrapper	1L005VP 3LGI.	1L005GA				

TUBE	4L007 GK	IMPREGNATION	Wax
CORE	29 Ga. B grade	2x2	PRIMARY V.A.
MOUNTING	D		



DESIGNED BY G.W.

DATE

12/28/38

Audio Interstage 1/2.5
 Single Plate to
 Push Pull Grids

SPEC. NO. D-529

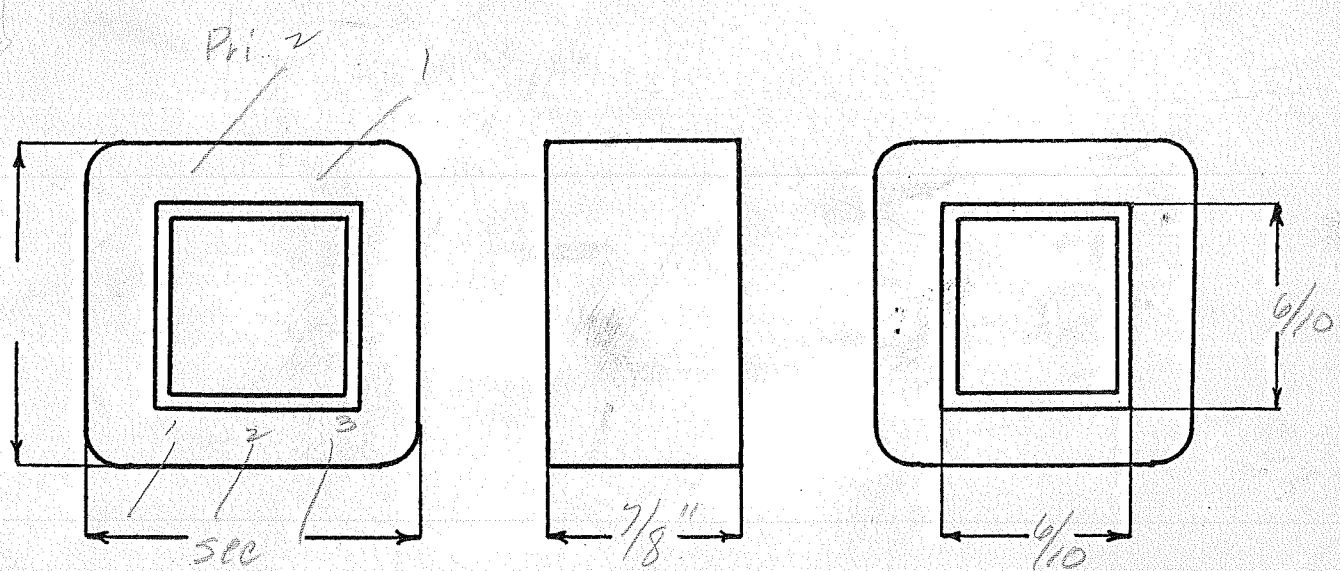
Winding	Pri	Sec.				
Turns	2050	5120				
Taps	—	2560				
Wind. Lgth.	11/16	11/16 = 0.6875"				
Wire Size	#39	#39				
T. P. L.	158-13 L.	160-32 L.				
Finish	90%	90%				
Type Lead	#22 Pr. B.V.	#22 Pr. B.V.				
Lead Lgth.	9"	9"				
Layer Insul.	1L 14#9	1L 14#9				
Test Volt.	1250					
Wrapper	2L 003" VF	2L 005 GA				

TUBE 4L-007" 6K IMPREGNATION Varnish

CORE 1/10 x 1/10 E+I GA. 29 GRADE ^D Annealed STACK 2x2

MOUNTING D - Leads only.

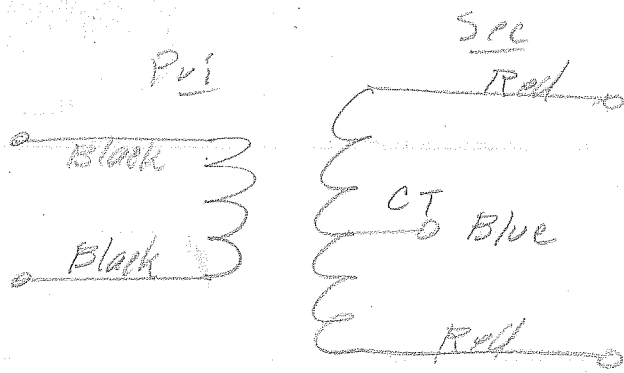
Wire Net = 0.211" (0.207")



Re-DESIGNED BY MWS

DATE 8-5-41

over

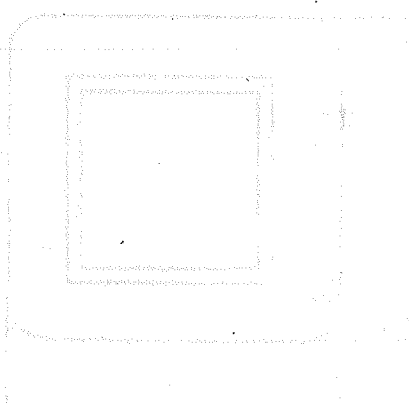
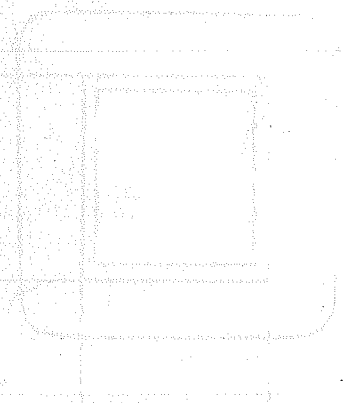


$$T = 5120 - 2050$$

$$T_R = 2.5 - 1$$

$$Z_R = 6.25 - 1$$

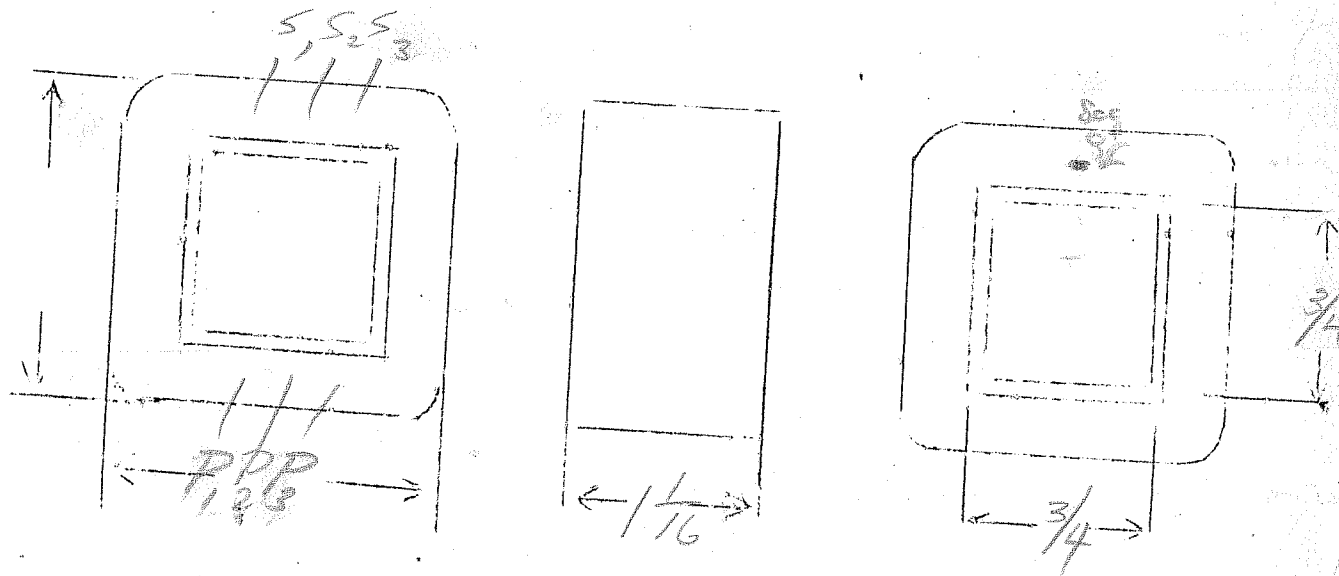
$$Z = 62,500 - 10,000$$



VELOCITY MIKE TO GRID

SPEC. NO. 532

Winding	SEC	PRI				
Turns	8400	28				
Taps	4200	14				
Wind. Lgth.	15/16	15/16				
Wire Size	#40E	#15				
T.P.L.	236-36	14				
Kind Term.	sil BR	WIRE ONLY				
Term. Lgth.	3"	3"				
Layer Insul.	16 #01	GA				
Wrapper	20005 GA	20005 GA				
TUBE	46007		IMPREGNATION		WAX	
CURE	3/4 x 3/4					



Single plate to push pull grids--heavier than
 No. 544--excellent response for replacement use.

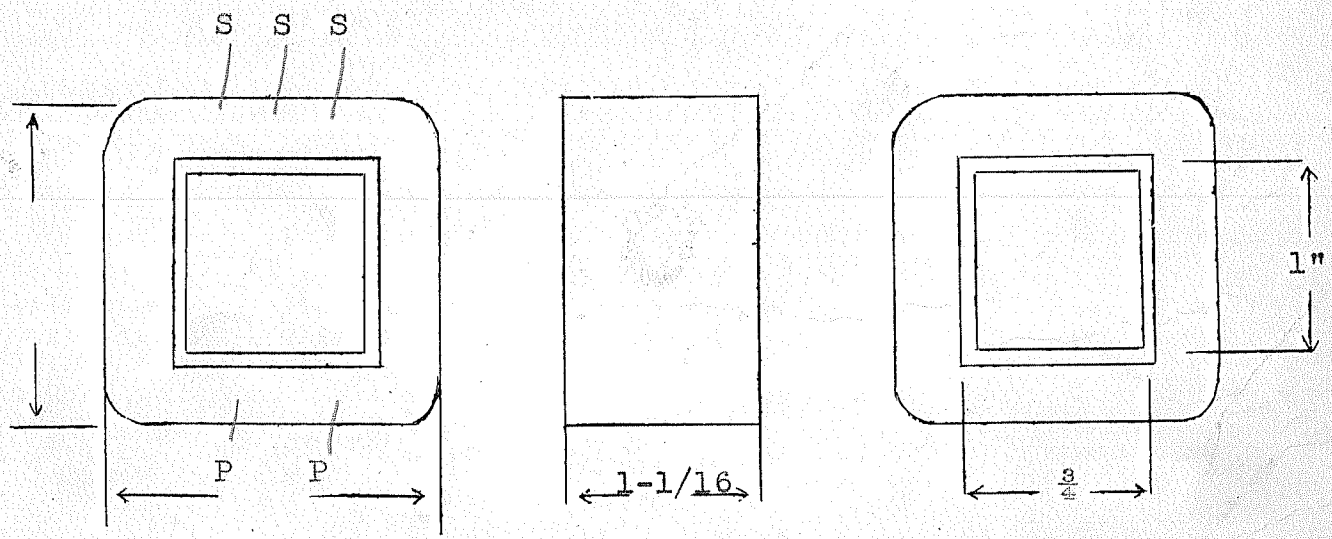
OLD

SPEC. NO. D533

Winding	PRI	SEC				
Turns	3500	9700				
Taps	NONE	4850				
Wind. Lgth.	7/8"	7/8"				
Wire Size	#39E	#39E				
T.P.L.	222-16	222-44				
Kind Term.	P.Br Sil Br	P.Br Sil Br				
Term. Lgth.	6"	6"				
Layer Insul.	16#	16#				
Test Volt.	1200	1250				
Wrapper	1L007VC 1/4 L Glass	no. 2L005GA				

TUBE F.T.	7L007	IMPREGNATION	VARNISH & WAX
CORE	3/4 x 1 (3/4 NW)	29G B 2 x 2	PRIMARY V.A.
MOUNTING	D		

stickers under Pri.



DESIGNED BY G.W.

DATE

Audio Output
 Pri. - 500, 1000, 1500, 2000, & 2500 Ohm.
 Sec. - 2, 4, 8, & 15 Ohm.
 15 Watt

#8217

SPEC. NO. D-534

Winding	Primary	1	2	3	4	5	NOTE - SEC LEADS
Turns	1550	1-43	2	3-42	4-5	5-31	2-3 GO TO SAME LUG AND 5-6 TO SAME LUG
Taps	900 - 600 - 400 - 200	-	-	17	-	-	
Wind. Lgth.	1-1/16"	1-1/16"		1-1/16"		1-1/16"	
Wire Size	#31	#20		#22		#24	
T. P. L.	100 - 161	29 - 1 1/2 L		56 - 1 1/2 L		34 - 1 L	
Finish Pitch	90%	90%		90%		90%	
Type Lead	#22 Pr. Br.	W. O.		W. O.		W. O.	
Lead Lgth.	9" (from case)	3"		3"		3"	(from coil)
Layer Insul.	1L 30/G	1L .005" GA		1L .005" GA		1L .005" GA	
Test Volt.	2000V			1250V			
Wrapper	2L .005" GA	NONF - (CONTINUOUS WINDING)		1L .005" GA		2L .005" GA	

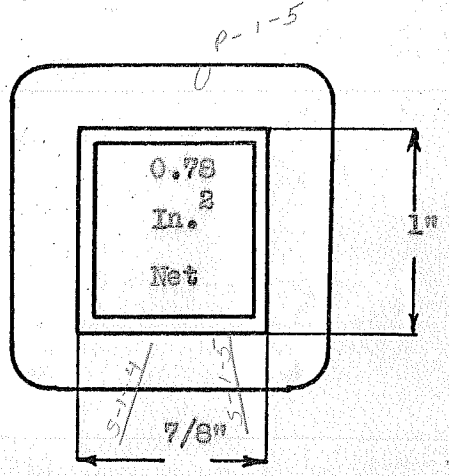
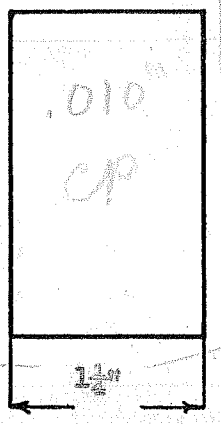
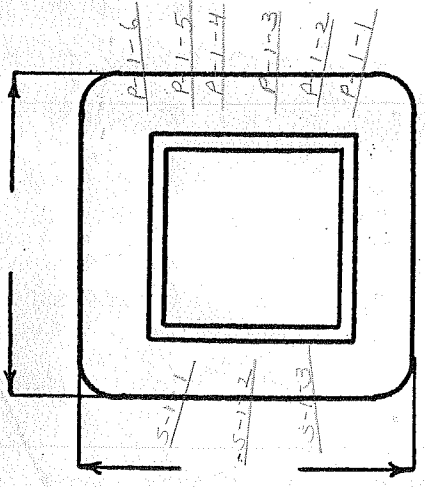
TUBE 5L - .007" GK+1L003VP IMPREGNATION VARNISH

CORE 7/8" x 1" E & I GA. 29 GRADE D - Annealed STACK 2 x 2

MOUNTING "D" - Leads on Primary Lugs on Secondary NOTE: Secondary wound in same direction as Primary.

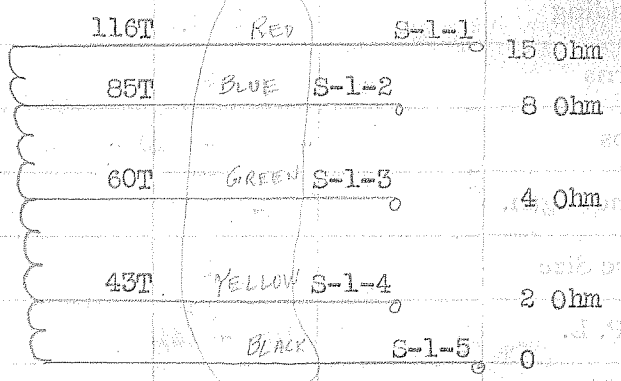
Cu =
 Fe = 144 @ 25 Cy. (72 @ 50 Cy.)
 TFF = 3.0 (190V across - 2500 Ohm)
 Wire Net = 0.324" (0.282")

15
 = 79 MA @ 2500 V (1000 R/L)
 = 90 MA @ 2000 V
 = 106.5 MA @ 1500 V
 = 129 MA @ 1000 V
 = 188 MA @ 500 V

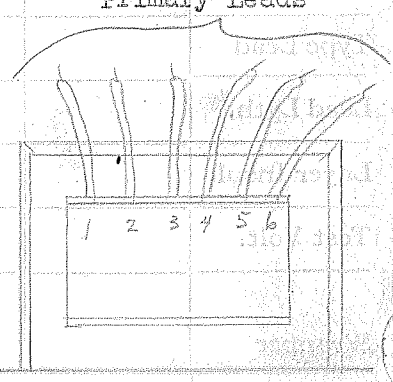
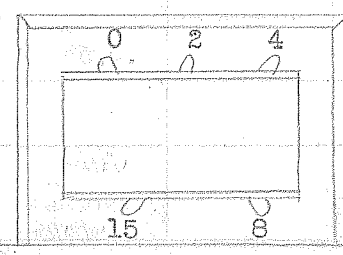
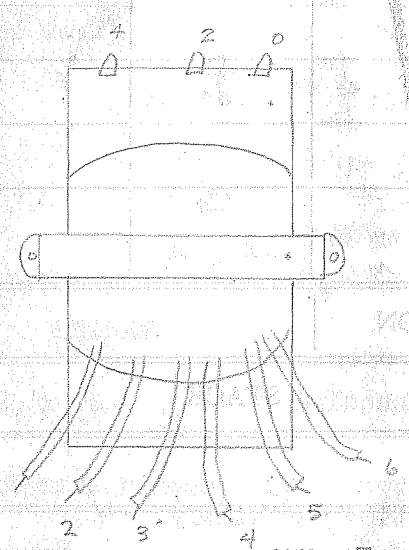


"K" MT6 ONLY

2500 Ohm	P-1-1	Green-White	116T	RED	S-1-1	15 Ohm
1000 W	P-1-2	Black-Red 200T	85T	BLUE	S-1-2	8 Ohm
1500 W	P-1-3	Blue-Red Green-Red 400T	60T	GREEN	S-1-3	4 Ohm
1000 W	P-1-4	Red-Yellow 600T	43T	YELLOW	S-1-4	2 Ohm
500 W	P-1-5	Black-White Blue-Yellow 900T		BLACK	S-1-5	0
	P-1-6	White 1550T				

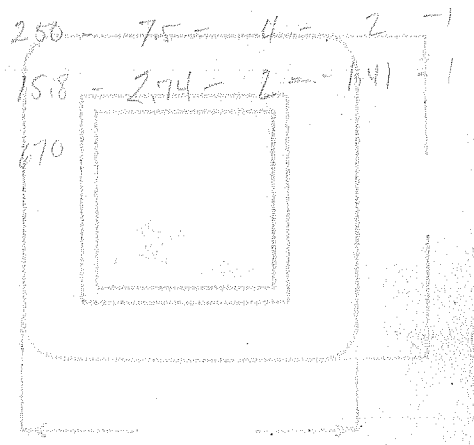
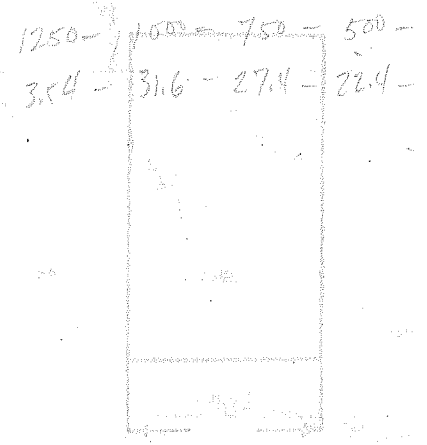
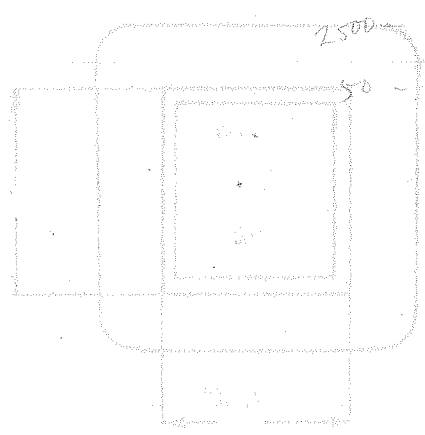


Primary Leads



2150 - T	==	1550 - 1350 - 1150 - 950 - 650 - 116 - 85 - 60 - 43
50 - T _R	==	36 - 31.4 - 26.7 - 22 - 15.1 - 2.7 - 1.97 - 1.395 - 1
2500 - Z _R	==	1300 - 985 - 713 - 485 - 228 - 7.29 - 3.88 - 2.79 - 1
5000 - Z	==	2600 - 1970 - 1430 - 970 - 457 - 14.6 - 7.78 - 5.58 - 2

15W. 2500 - 2000 - 1500 - 1000 - 500 - 15 - 8 - 4 - 2



PR1 - 500 Ω
 SEC - 500, 250, 167, 125 Ω

LINE MATCHING TRANSFORMER
 O.L.D.

30 WATTS

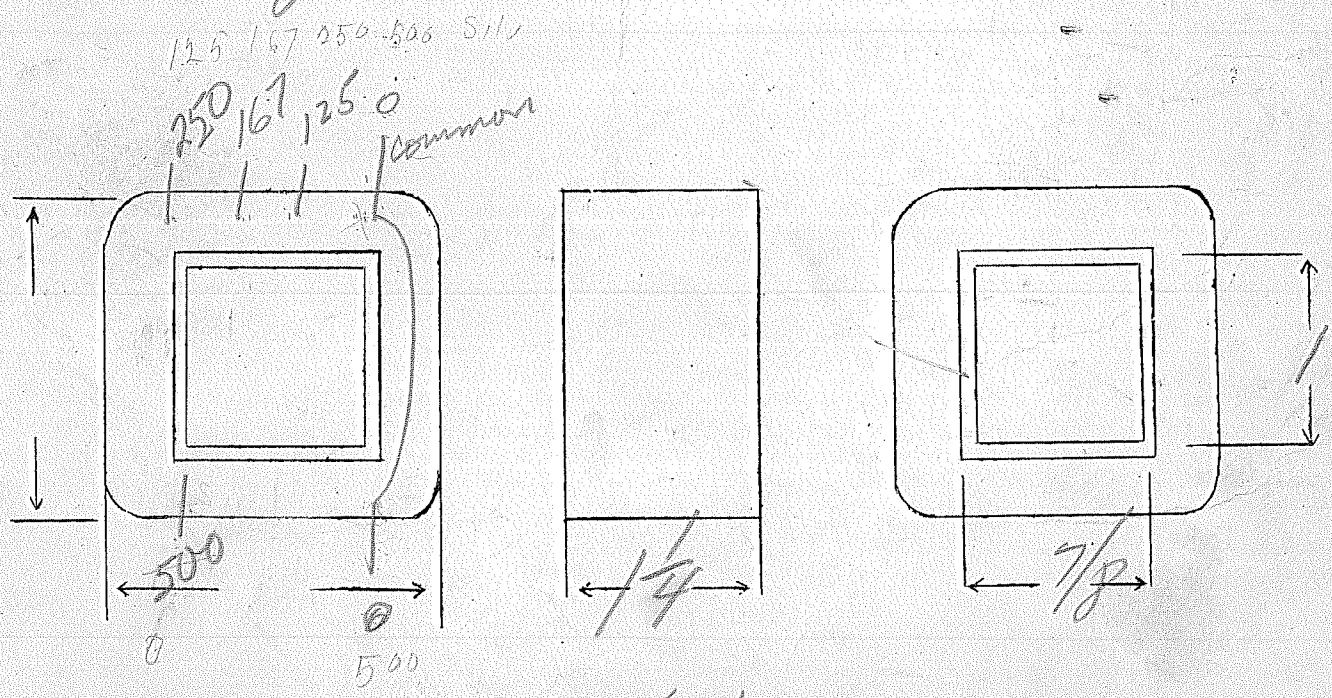
SPEC. NO. D-535

11

Winding							
Turns	(200) 1250	(250)					
Taps	0-368-557-620	(167)	(125)				
Wind. Lgth.	1 1/16						
Wire Size	#27						
T.P.L.	63-204						
Kind Term.	W.O.						
Term. Lgth.	3"						
Layer Insul.	40#						
Test Volt.							
Wrapper	21005GA						

TUBE	5L007	IMPREGNATION	Varnish
CORE	7/8 x 1 - B - 2x2	PRIMARY V.A.	
MOUNTING	D4		

end of winding is common



DESIGNED BY *Law*

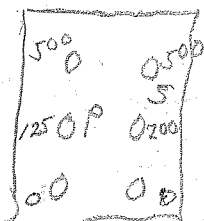
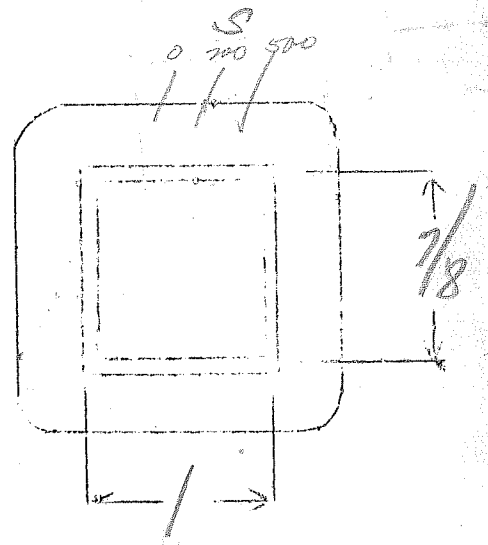
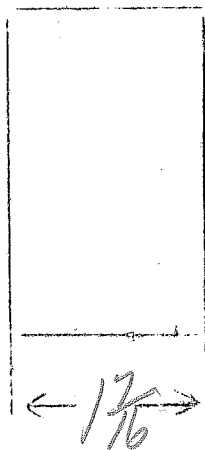
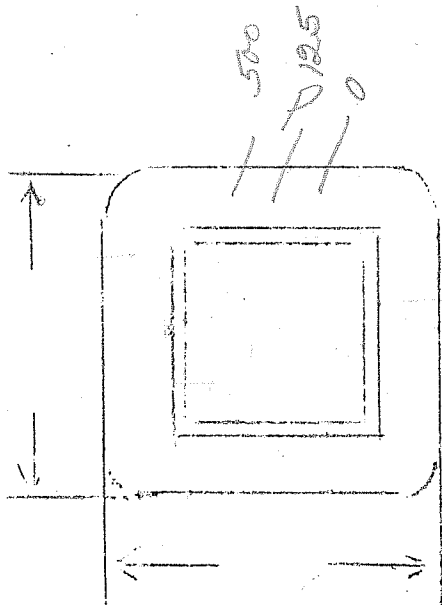
DATE *7/15/38*

50002125 Ω

to 50002200 Ω line

SPEC. NO. 536

Winding	P	S					
Turns	850	885					
Taps	425	560					
Wind. Lgth.	1.25	1.25					
Wire Size	#28	#28					
T.P.L.	74	74					
Kind Term.	silver	brad					
Term. Lgth.	6"	6"					
Layer Insul.	40#	40#					
Wrapper	2L007K	2L0056A					
TUBE	7L007			IMPREGNATION		VARNISH	
CURE	1X $\frac{3}{8}$	2962X2	B grade				

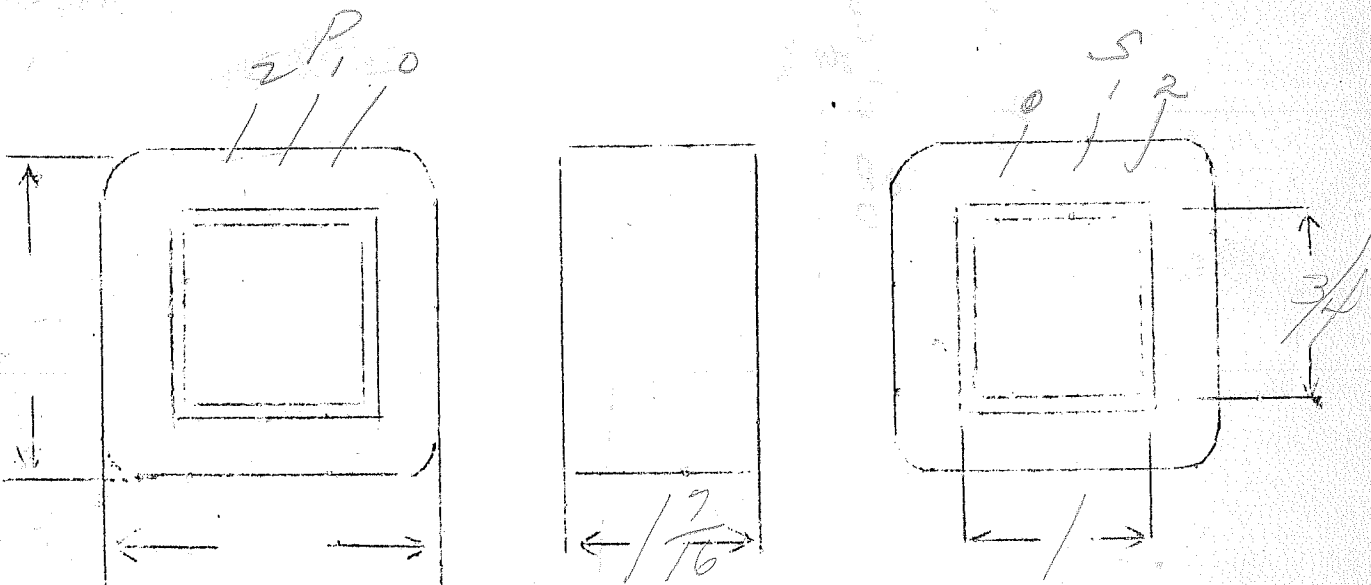


RIBBON MIKE To 200 and 500 ohm line

1/2 or 1/4" to

SPEC. NO. 538

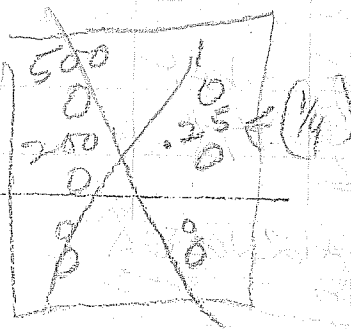
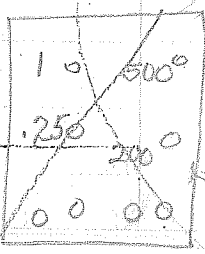
Winding	SEC	PRI					
Turns	850	38					
Taps	530	19					
Wind. Lgth.	1.25	1.25					
Wire Size	#27	#16					
T.P.L.	76-12	19-2					
Kind Term.	WIPE	ONLY					
Term. Lgth.	4"	4"					
Layer Insul.	3#						
Wrapper	21005GA	21005GA					
TUBE	7L007			IMPREGNATION		VARNISH	
CURE	1X 3/4	296B	Grade	2X2			



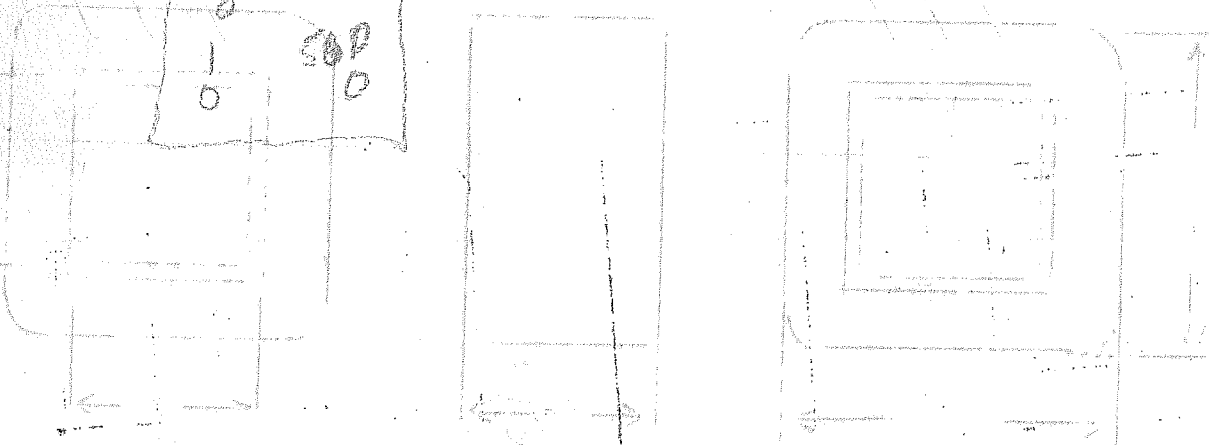
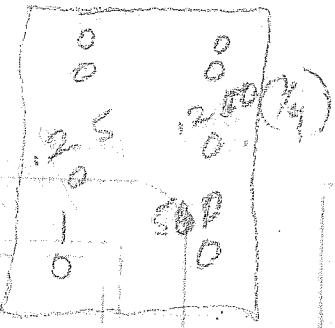
SPRG. NO.

822

Wind. Dir.
 Turn
 Temp.
 Wind. Spd.
 Wire Size
 T.P.L.
 Kind Form.
 Form. Len.
 Layer Insul.
 Spacing
 P.R.
 CURB



IMPRGNATION



Audio
Single Plate to Single Grid
Voltage Ratio 2.5/1

Old Stock
Manufacturer's List

SPEC. NO. D-539
(SIMILAR TO #17891)

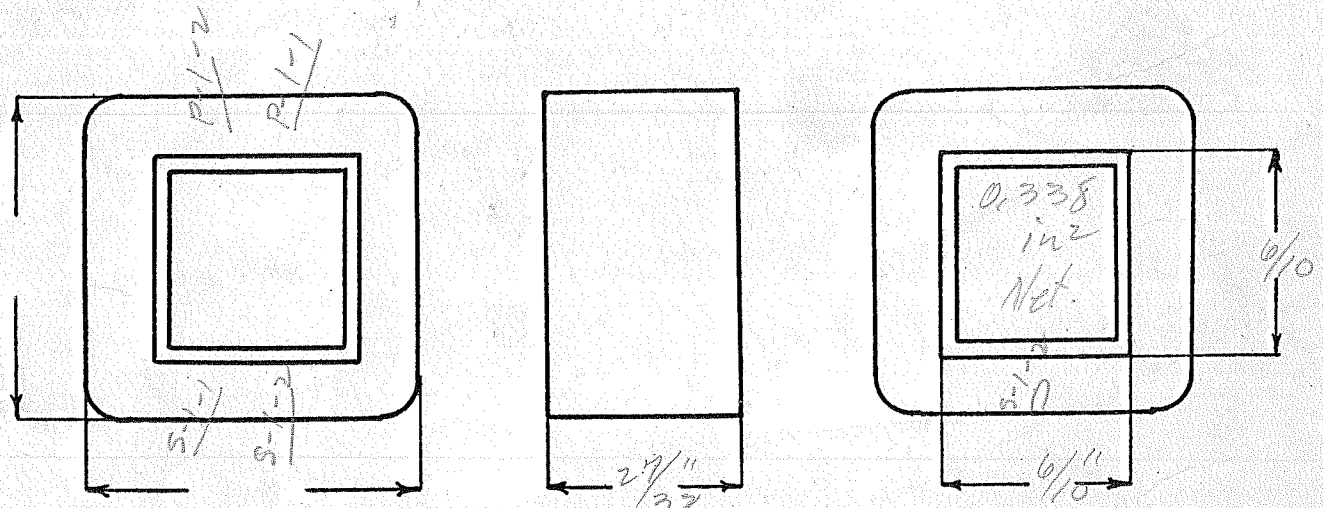
Winding		Pri		Sec		
Turns		2660		6650		
Taps		-				
Wind. Lgth.		2 ³ / ₃₂ "		2 ³ / ₃₂ " = 0.718"		
Wire Size		#40		#40		
T. P. L.		190-146		190-352		
Finish	Ptd.	90%		90%		
Type Lead		Sil. Br.		Sil. Br.		
Lead Lgth.		3"		3"		
Layer Insul.		12 12# G		12 12# G		
Test Volt.		-		-		
Wrapper		12 005 VC		22 0056A		

TUBE 4L-007 G1K IMPREGNATION

CORE 1/10 x 1/10 EXT GA. 29 GRADE B Annealed STACK Butt - no gap

MOUNTING D-2 Panel with legs

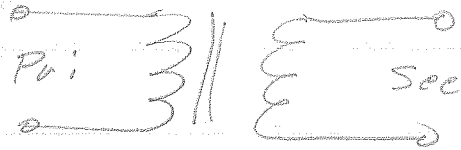
Wire Net = 0.212" (0.2004)
TPV = 2666 (100V)
Fe = 50 @ 50W



DESIGNED BY NUR

0011

DATE 1-15-42

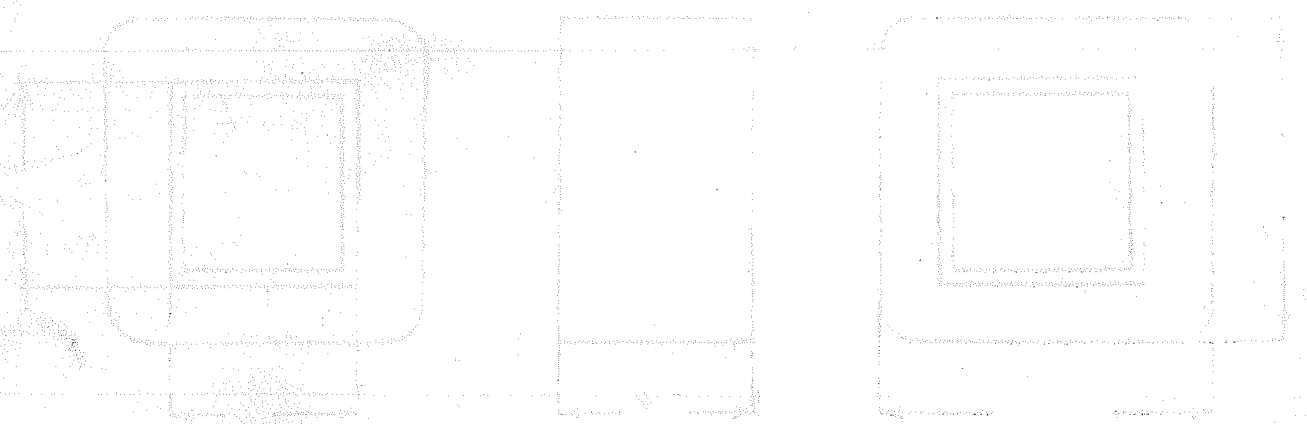
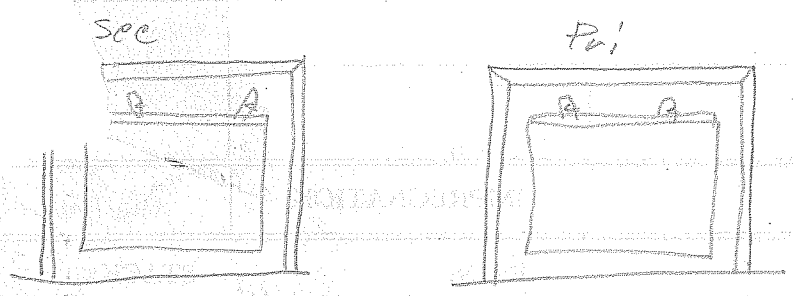


$$T = 6650 - 2660$$

$$T_R = 2,5 - 1$$

$$Z_R = 6,25 - 1$$

$$Z = 62,500 - 10,000$$



AUDIO OUTPUT

STOCK

9,000 ohms CT P.P. 6L6's Class AB1
 6600 to
 2-4-8-16-500 ohms
 25 watts

SPEC. NO. S-540-A

Winding	1-2 Sec. #1	3-4-5 Sec #2	6-7-8 - 9-10 Pri.		11-12-13 Sec #3	single before
Turns	484	53	2,500		53	
Taps	--	31	160-1,250-	2370	15	SINGLE IN
Wind. Lgth.	1 3/8	1 3/8	1 3/8		1 1/4	DIRECT SEC
Wire Size	#29	#20	#32		#18	
T. P. L.	97-5L	31-2L	139-10L		27-2L	
Finish	86%	75%	88%		90%	
Type Lead	#22 Pr. Br.	#20 Pr. Br.	#22 Dulac		#18 Pr. Br.	
Lead Lgth.	9" cut 15"	9" cut 15"	9" cut 15"		9" cut 15"	
Layer Insul.	830#	Double 30#	30#		1L005GA	
Test Volt.	1250		2000		1250	
	.069	.077	.186		.089	
Wrapper	4L30#	1L007VC	2L005GA		2L005GA	

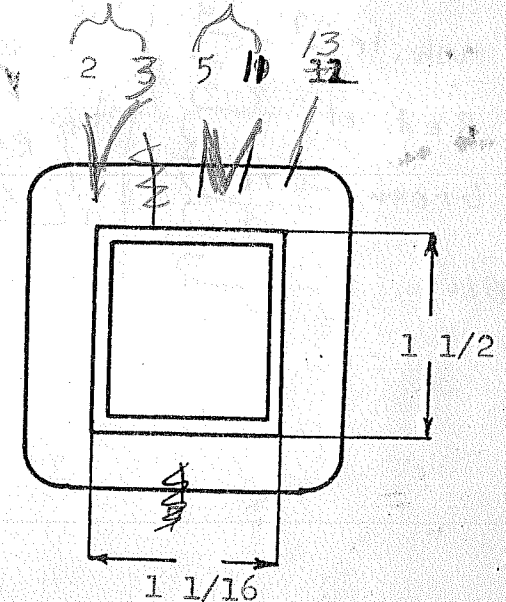
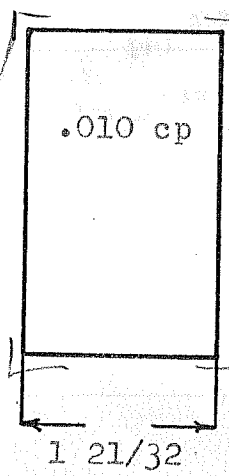
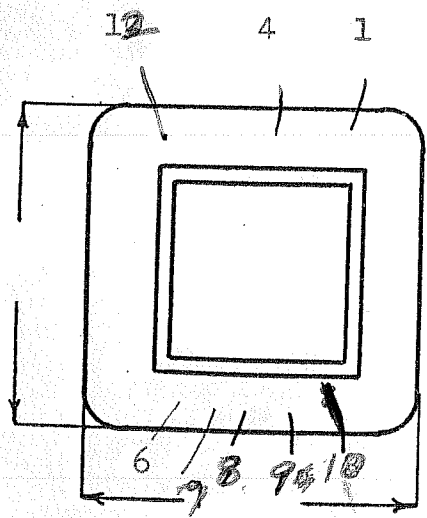
TUBE 9L007GK plus 1L003VC IMPREGNATION

CORE 1/16 x 1 1/2 GA. 29 GRADE B STACK Butt no Gap
 armite keeper

MOUNTING AA

T. P. V. -
 Window - $530/656 = 81\%$

FINISH AS ONE
 ↓ LEAD ↓



DESIGNED BY
 S.B.
 rewritten

DATE

DESIGN AND TEST DATA

Rating:

Winding	1-2 Sec. #1	3-4-5 Sec. #2	6-7-8 Pri.	9-10-11 Sec. #3
Mean Turn	5.87	6.455	7.475	8.475
Resistance 25° c	19.8	3.05	263.0	.25
Pounds Copper	.093	.925	.304	.191
Copper Density				
Ratio Volts	21.3	2.33 1.33	110 55	2.33 .66
Test to Ground	1250		2000	1250

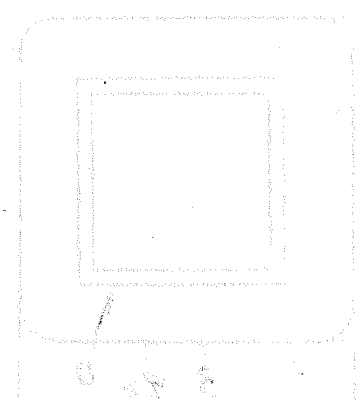
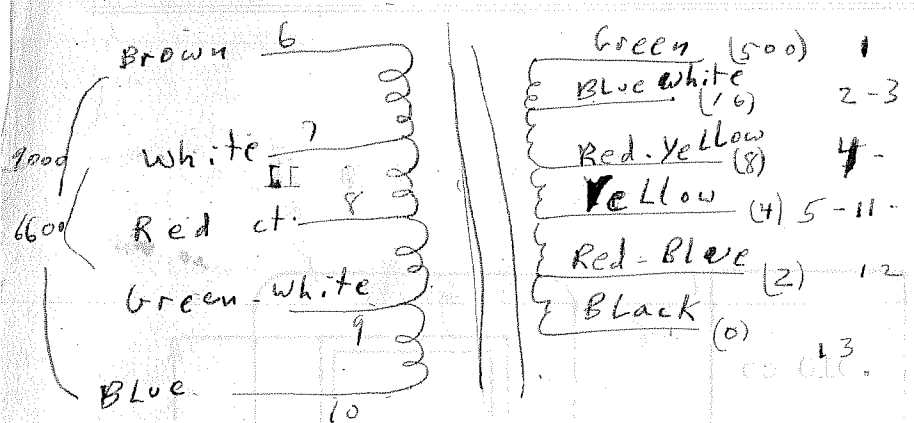
OBSOLETE

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:



UNIVERSAL CLASS AB OR B DRIVERS

15 WATTS

$P/\frac{1}{2}S = 2.0-2.4-2.9-3.5-4.2-4.6-5.0-6.5$

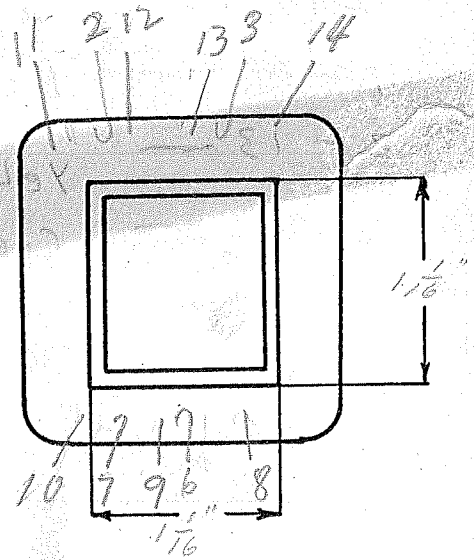
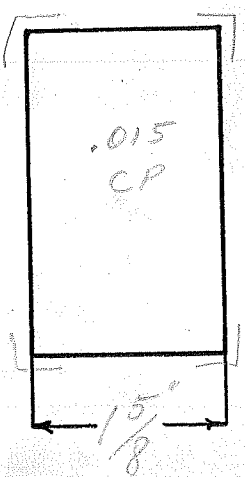
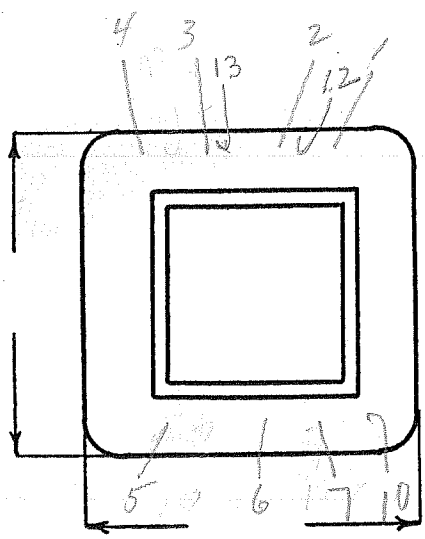
SPEC. NO. S-541

Winding	1-2-3-4 <i>Sec</i>		5-6-7 <i>Prim</i>	8-9-10 <i>Prim</i>		11-12-13-14 <i>Sec</i>
Turns	1000		1200	1200		1000
Taps	310-521		1000	200		479-690
Wind. Lgth.	1 7/16		1 7/16	1 7/16		1 7/16
Wire Size	#29		#32	#32		#29
T. P. L.	106-102		147-92	147-92		106-102
Finish						
Type Lead	22 DULAC		DULAC	DULAC		DULAC
Lead Lgth.	Cut 14"					
Layer Insul.	#30		#30	#30		#30
Test Volt.	2500		— 2500 —			2500
Wrapper	2L005VC		1L005VC	2L00VC		2L007GA

TUBE	7L007GK + 1L003VP	IMPREGNATION	VARNISH
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CORE $1\frac{1}{16} \times 1\frac{1}{16}$ GA. 29 GRADE B STACK Burr NO Gap

MOUNTING AA



DESIGNED BY

DATE

DESIGN AND TEST DATA

Rating: _____

	1-2-3-4	5-6-7	8-9-10	11-12-13-14
Winding	Sec	Pri	Pri	Sec
Mean Turn	5.14	6.06	6.79	7.68
Resistance 25° c	35.8	101.5	114	53.3
Pounds Copper	.1675	.118	.132	.25
Copper Density				
Ratio Volts	30-60-90	110	110	30-60-90
Test to Ground	2500	— 2500 —		2500

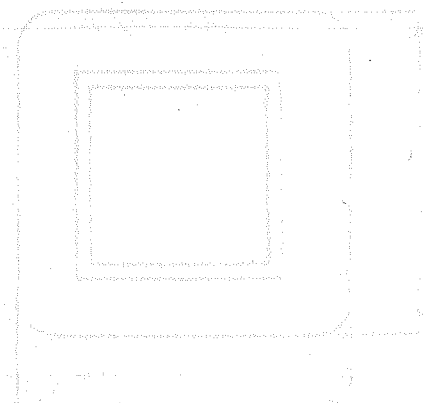
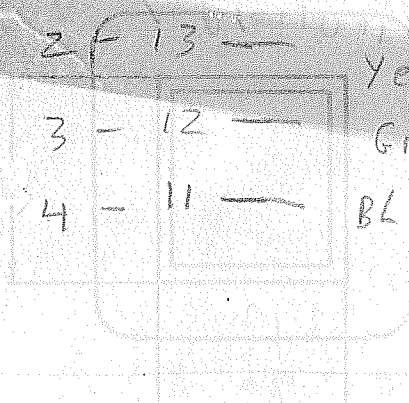
Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles on _____ with _____ grounded

Remarks:

5-10	Red	1-6
6-9	Blue	2-5
7-8	Brown	3-4
1-14	Blue-White	7-14
2-13	Yellow	8-13
3-12	Green	9-12
4-11	Black	10-11



AUDIO OUTPUT

STOCK

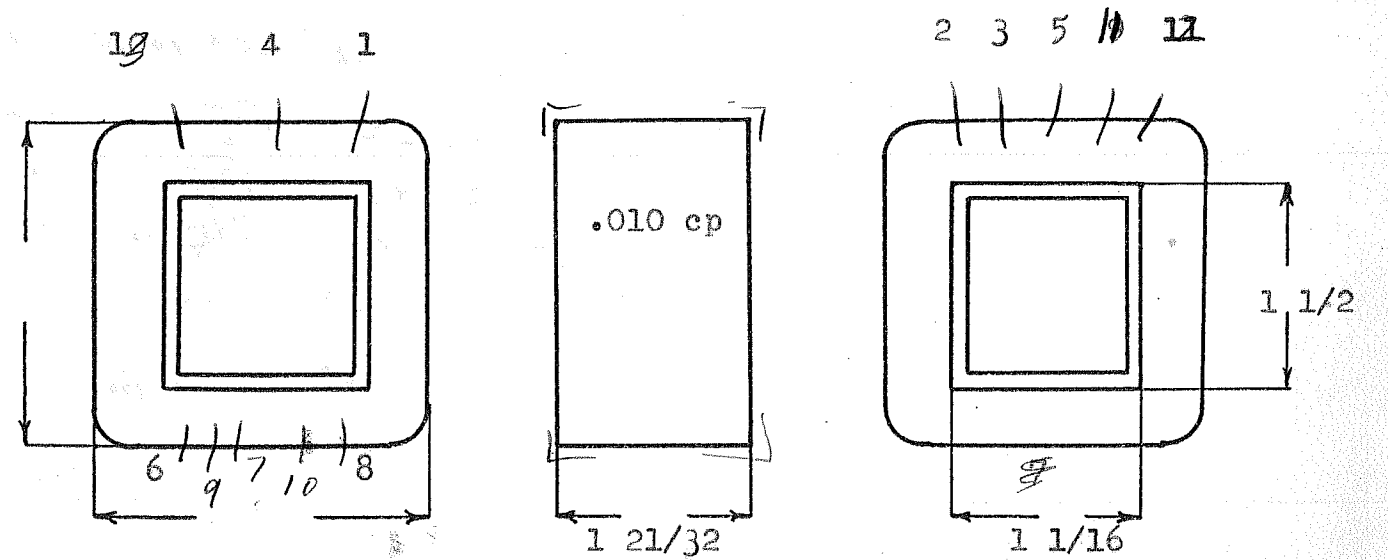
9,000 ohms CT P.P. 6L6's Class ABL
 6600 to
 2-4-8-16-500 ohms
 25 watts

SPEC. NO. S-540-A

Winding	1-2 Sec. #1	3-4-5 Sec #2	6-7-8 - 9-10 Pri.		11-12-13 Sec #3	single wind before finish ing
Turns	484	53	2,500		53	
Taps	--	31	160-1,250 - 2340		15	
Wind. Lgth.	1 3/8	1 3/8	1 3/8		1 1/4	
Wire Size	#29	#20	#32		#18	
T. P. L.	97-5L	31-2L	139-20L		27-2L	
Finish	86%	75%	89%		90%	
Type Lead	#22 Pr. Br.	#20 Pr. Br.	#22 Dulac		#18 Pr. Br.	
Lead Lgth.	9" cut 15"	9" cut 15"	9" cut 15"		9" cut 15"	
Layer Insul.	30#	Double 30#	30#		1L005GA	
Test Volt.	1250		2000		1250	
Wrapper	.069 4L30#	.077 1L007VC	.186 2L005GA		.089 2L005GA	

TUBE 9L007GK plus 1L003V6 IMPREGNATION
 CORE 1 1/16 x 1 1/2 GA. 29 GRADE B STACK Butt no Gap
 MOUNTING AA armite keepers

T. P. V. —
 window - $530/656 = 81\%$



DESIGNED BY S.B. rewritten

DATE

DESIGN AND TEST DATA

Rating: _____

Winding	1-2 Sec. #1	3-4-5 Sec. #2	6-7-8 Pri.	9-10-11 Sec. #3
Mean Turn	5.87	6.455	7.475	8.475
Resistance 25° c	19.8	3.05	263.0	.25
Pounds Copper	.093	.925	.304	.191
Copper Density				
Ratio Volts	21.3	2.33 1.33	110 55	2.33 .66
Test to Ground	1250		2000	1250

Iron Induction _____ @ _____ Cycles _____

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:

$$Z_T = 9000 - 6600 - 500 - 16 - 9 - 4 - 2$$

$$Z_R = 4500 - 3300 - 250 - 8 - 4 - 2 - 1$$

$$T_R = 67.1 - 57.4 - 15.8 - 2.83 - 2 - 1.4$$

$$T = 2500 - 2180 - 540 - 106 - 75 - 53 - 3$$

$$E = \sqrt{25 \times 9000} = 474 V$$

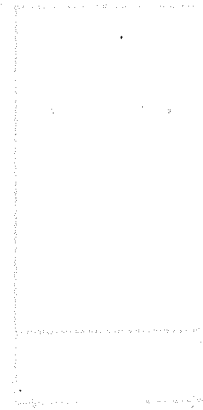
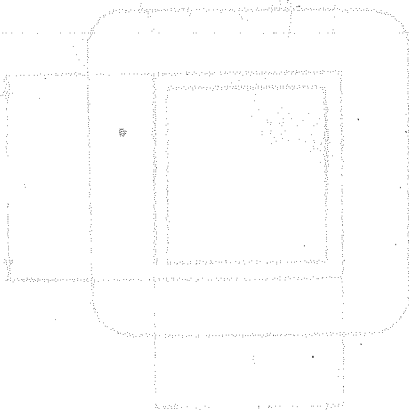
$$I_s \ 2 \Omega = \sqrt{\frac{25}{2}} = 3.53 a$$

$$I_s \ 4 \Omega = \sqrt{\frac{25}{4}} = 2.5 a$$

$$I_s \ 8 \Omega = \sqrt{\frac{25}{8}} = 1.77 a$$

$$I_s \ 16 \Omega = \sqrt{\frac{25}{16}} = 1.25 a$$

$$I_s \ 500 \ \Omega = \sqrt{\frac{25}{500}} = 224 ma.$$



PRI - 2000 Ω - PP PAR 666, 507

SEC - 10000, 7000, 4000 @ 125 watts

SPEC. NO. 554

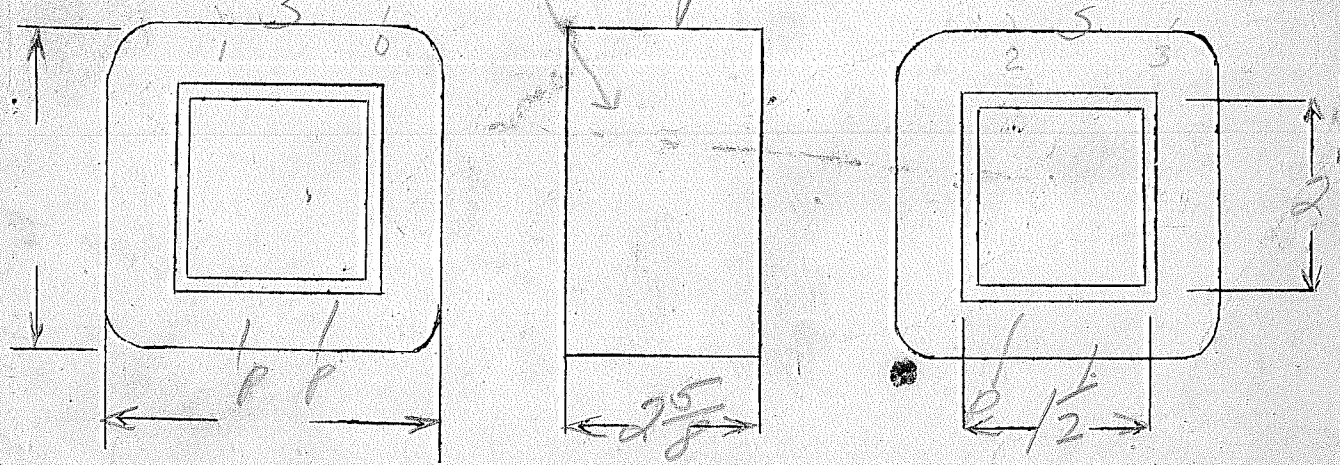
Continuum

Winding	PRI	SEC				
Turns	1200	2700				
Taps	600	1750 - 2300				
Wind. Lgth.	2 1/4	1 7/8				
Wire Size	#26	#27				
T.P.L.	120-10	110-25				
Kind Term.	WIRE ONLY					
Term. Lgth.	6"	6"				
Layer Insul.	double 30#					
Test Volt.	5000	6500				
Wrapper	5200 PVC 4L 9L	3400 PVC 2100 SGA				

TUBE 9L007 + 21007K IMPREGNATION VARNISH
 CORE 24/28 - .070 gap PRIMARY V.A.
 MOUNTING J

8-1365
 8-1480
 8-1550

use these flats with spec no only
 for test over



DESIGNED BY RW

DATE 6/29/38

UNIVERSAL CLASS AB OR B DRIVERS

STOCK

15 watts

P/S = 2.0-2.4-2.9-3.5-4.2-4.6-5.0-6.5

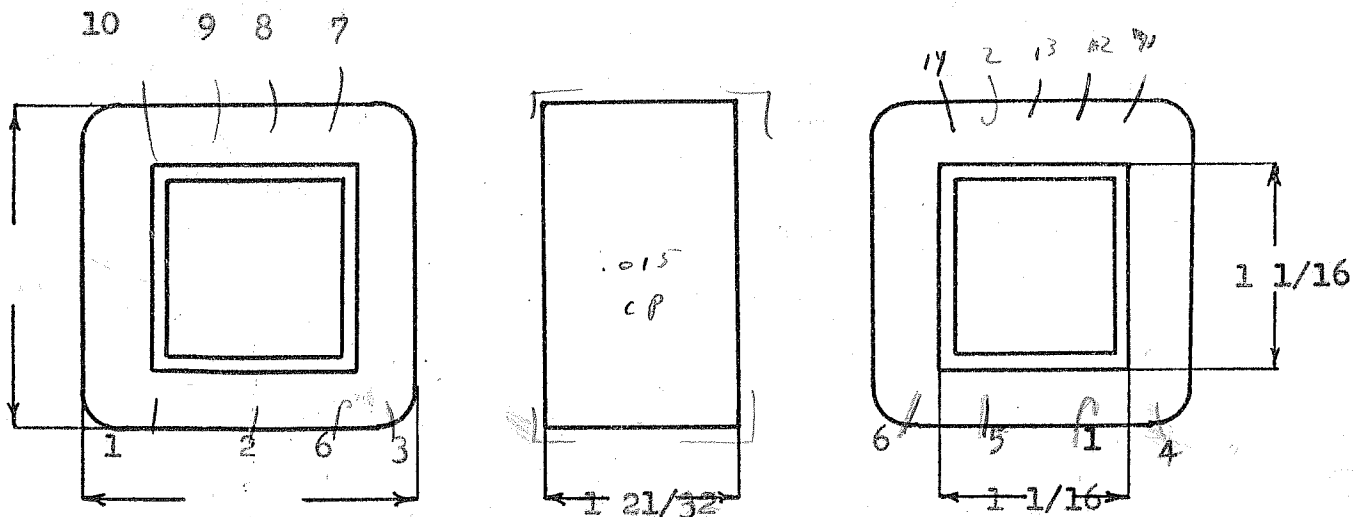
SPEC. NO. S-541-F

Winding	7-8-9-10	1-2-3	4-5-6	11-12-13-14
Turns	1000	1200	1200	1000
Taps	310-521	1000	200	479-690
Wind. Lgth.	1 7/16			
Wire Size	#29	#32	#32	#29
T. P. L.	106-10L	147-9	147-9L	106-10L
Finish				
Type Lead	Sil. Br. Vinyl SL.	Sil. Br.	Sil. Br.	Sil. Br.
Lead Lgth.	6	6	6	6
Layer Insul.	30#	30#	30#	30#
Test Volt.	2500	2500	2500	2500
Wrapper	2L005VC	1L005VC	2L005VC	2L007Ga

TUBE	7L007GK / 1L003VP	IMPREGNATION	Varnish
------	-------------------	--------------	---------

CORE 1 1/16 x 1 1/16 GA. 29 GRADE B STACK Butt no gap

MOUNTING AA



DESIGNED BY

F. Frazer

DATE

DESIGN AND TEST DATA

Rating: _____

Winding						
Mean Turn	5.14		6.06	6.79		7.68
Resistance 25° c	35.8		101.5	114		53.3
Pounds Copper	.1675		.118	.132		.25
Copper Density						
Ratio Volts						
Test to Ground	2500		2500			2500

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

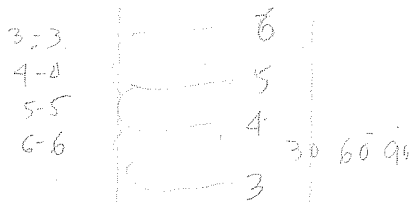
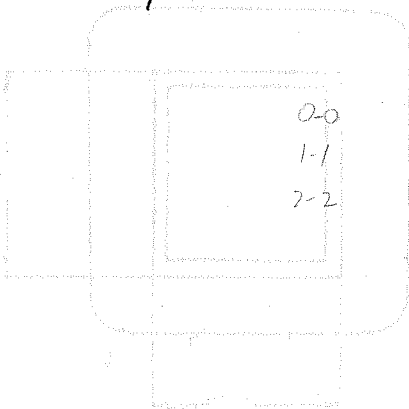
Remarks:

2 - 2A3' PP 3000 Ω

$$L = \frac{3.18 \times 10^{-8} \times (2000)^2 \times 1.129}{.004 \times \frac{7.17}{1200}} = 14.4 \mu\text{H}$$

$$2 \text{ db } d_u X_p = \frac{3000}{.77} = 3900$$

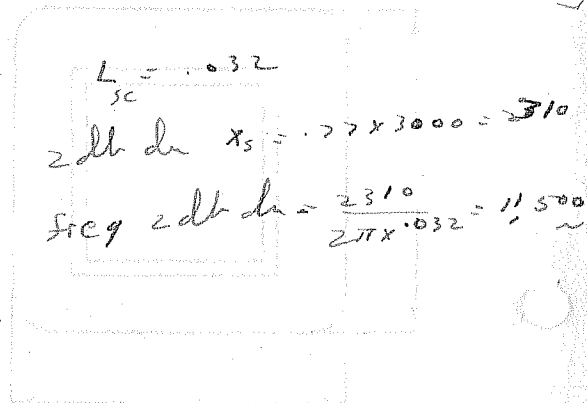
$$\text{freq } 2 \text{ db } d_u = \frac{3900}{2\pi \times 14.4} = 43.2$$



High

$$L_{sc} = \frac{.72 \times 6.34 \times (2400)^2}{1.438} \times$$

$$\left[\frac{.010 + .010 + \frac{.137 + .19116}{3}}{3} \right]$$



Audio Interstage
 Single Plate TO
 Single Grid
 3:1 Ratio

DESIGN AND TEST DATA

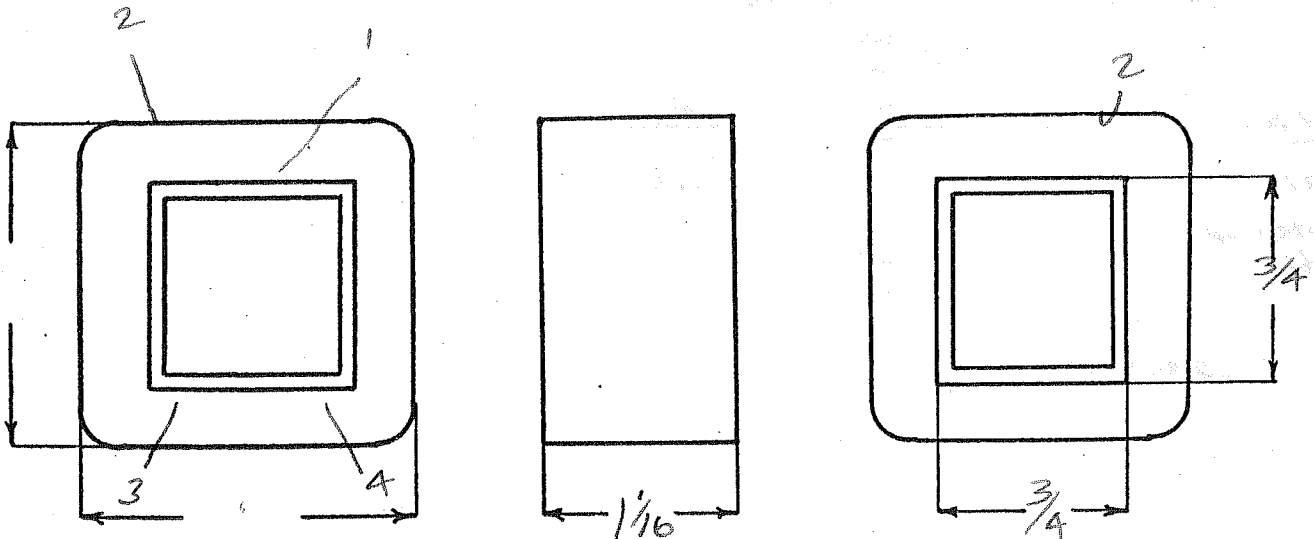
SPEC. NO. D-542-D

Winding	1-2 PRI	3-4 SEC
Turns	3000	9000
Taps	—	—
Wind. Lgth.	7/8	7/8
Wire Size	#39	#39
T. P. L.	205-15L	205-44L
Finish	89%	89%
Type Lead	#22 Pr. Br.	#22 Pr. Br.
Lead Lgth.	6"	6"
Layer Insul.	14 #	14 #
Test Volt.	1250	1250
Wrapper	12005VC	220056A

TUBE 5L0076K+12003UP IMPREGNATION VARNISH

CORE 3/4 x 3/4 GA. 29 GRADE B STACK 2 x 2

MOUNTING D - Leads



Redesigned
 DESIGNED BY F. Frazer

DATE 5-5-47

DESIGN AND TEST DATA

g:

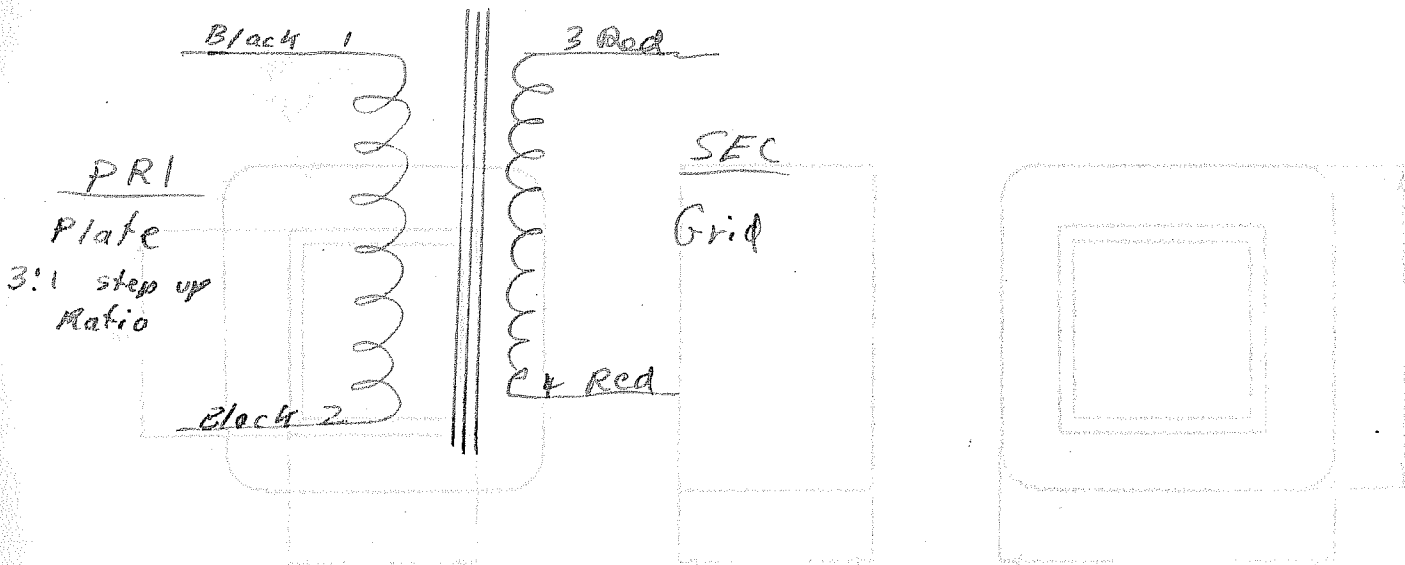
Winding		1-2 PRI		3-4 SEC.		
Mean Turn		3.54		4.56		
Resistance 25° c		750		2900		
Pounds Copper		.034		.133		
Copper Density		—		—		
Ratio Volts		38.4		115		
Test to Ground		1250		1250		

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:



Audio

Single Plate to
Push Pull Grids
Voltage Ratio 3/1

Old Stock

Manufacturer's List

DUPLICATE
5-11-42

SPEC. NO. D-543

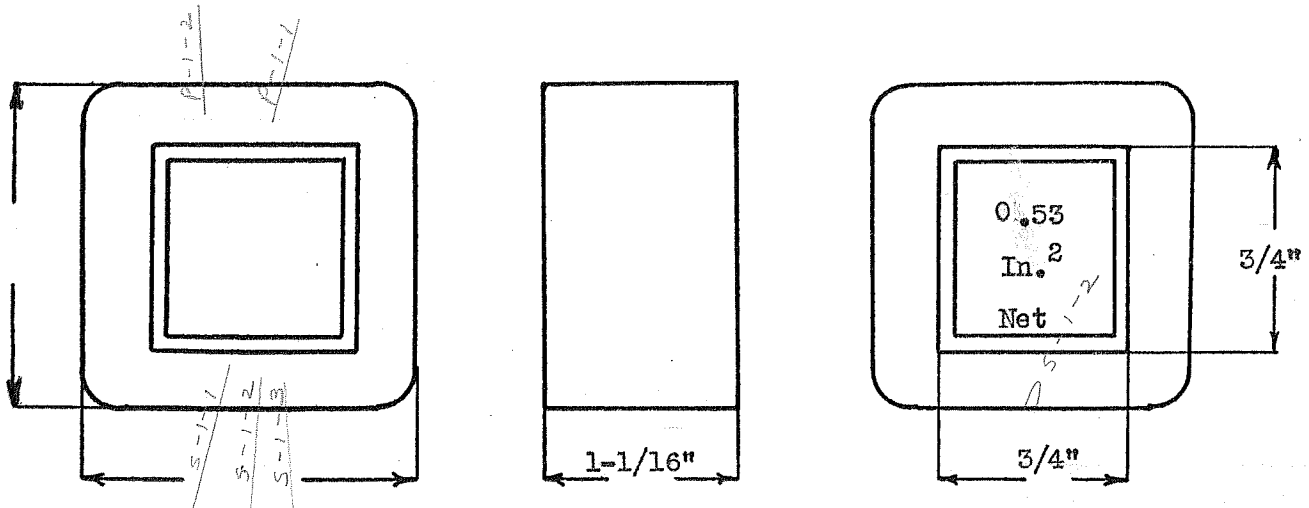
Winding		Primary		Secondary			
Turns		3090		9300			
Taps		-		4650			
Wind. Lgth.		27/32"		27/32" = 0.844"			
Wire Size		#40		#40			
T. P. L.		221 - 14L		221 - 42L			
Finish Pitch		89%		89%			
Type Lead		Sil. Br.		Sil. Br.			
Lead Lgth.		3"		3"			
Layer Insul.		1L 14#G		1L 14#G			
Test Volt.		-		-			
Wrapper		1L .005" VC		1L .005" GA			

TUBE 5L - .007" GK / 1L - .003" VP IMPREGNATION VARNISH

CORE $\frac{3}{4}" \times \frac{3}{4}"$ E & I GA. 29 GRADE B - Annealed STACK Butt - No Gap

MOUNTING D-3 Panel with Lugs

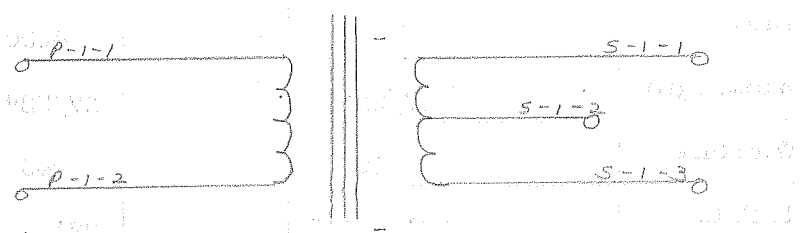
Wire Net = 0.273" (0.230")
TFV = 30.9 @ 100V
Fe = 27.5 @ 50 Cycle



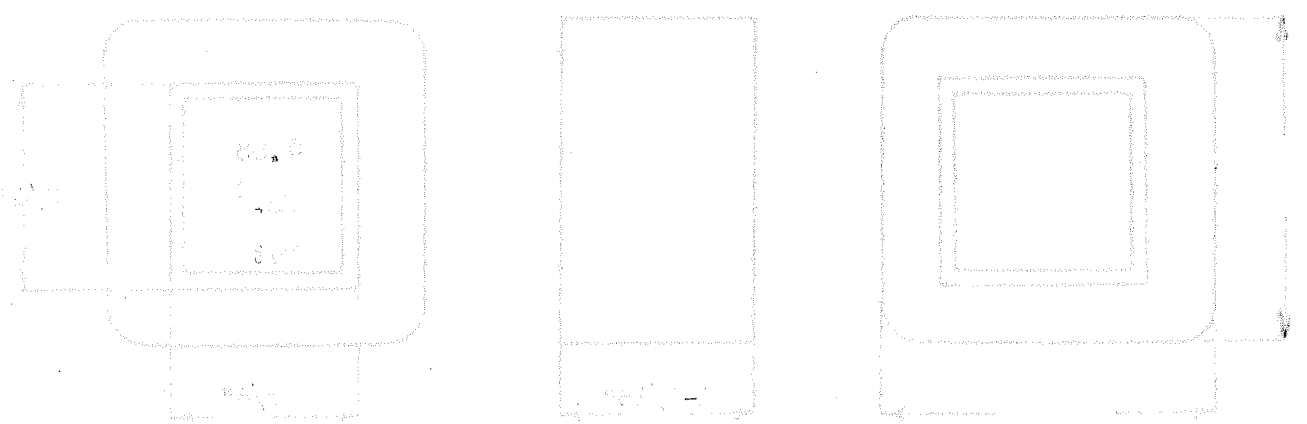
DESIGNED BY

DATE 5-11-42 (copied)

RECEIVED
 [Illegible text]



$$\begin{aligned}
 T &= 9300 - 3090 \\
 T_R &= 3 - 1 \\
 Z_R &= 9 - 1 \\
 Z &= 90,000 - 10,000
 \end{aligned}$$



INTERSTAGE

STOCK

10,000 ohms single plate @ 8 Ma.
to

P-P Grids 90,000 ohms

SPEC. NO. D-544

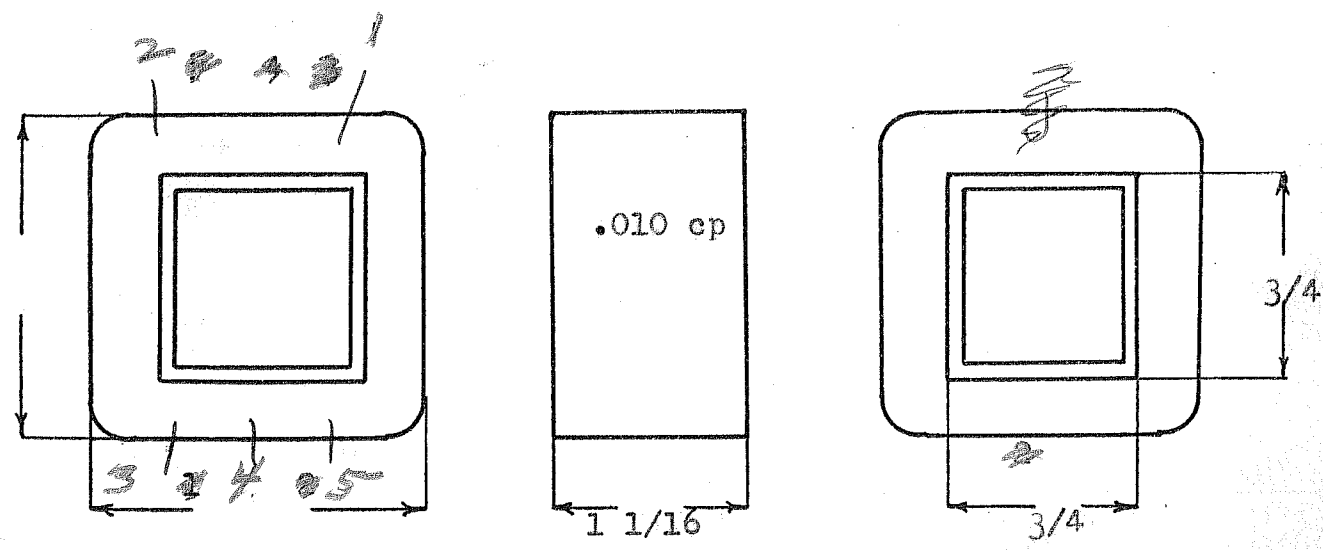
Winding		1-2 Pri.		3-4-5 Sec.		
Turns		3000		9000	CONTINUOUS WINDING	
Taps		-----		4500		
Wind. Lgth.		7/8		7/8		
Wire Size		#39		#39		
T. P. L.		205-15L 214 14L		205-44L		
Finish		90%		90%		
Type Lead		Silver Braid		Silver Braid		
Lead Lgth.		6"		6"		
Layer Insul.		12 12 1/2		12 12 1/2		
Test Volt.		1500		1000		
Wrapper	1L005VC			2L005GA		

TUBE	5L007GK plus 1L003VC	IMPREGNATION
------	----------------------	--------------

CORE 3/4 x 3/4 GA. 29 GRADE B STACK Butt No Gap

MOUNTING D

T. P. V. -
Window - $1320/1375 = 85.4\%$



DESIGNED BY

DATE

DESIGN AND TEST DATA

Rating: _____

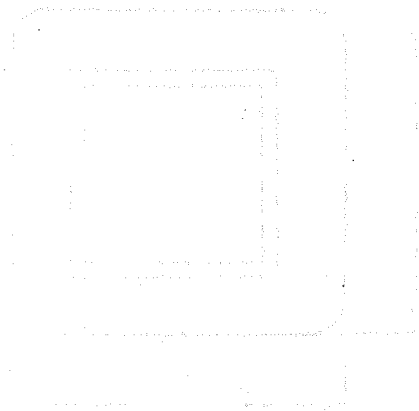
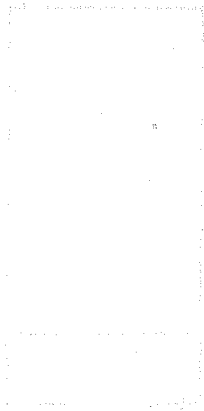
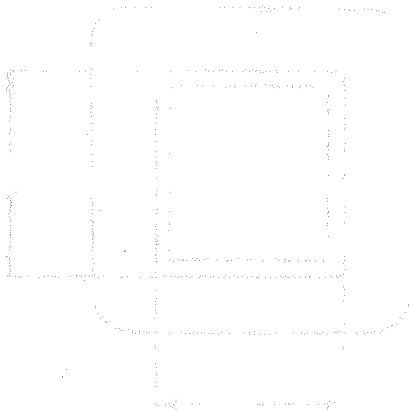
Winding		Pri.		Sec.		
Mean Turn		3.533		5.65		
Resistance 25° c		748.0		3600.0		
Pounds Copper		.034		.164		
Copper Density						
Ratio Volts		110		330		
Test to Ground		1500		1000		

Iron Induction _____ @ _____ Cycles _____

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks: _____



Audio Interstag*

Single Plate TO

P-P Grids

3:1 overall Ratio

SPEC. NO.

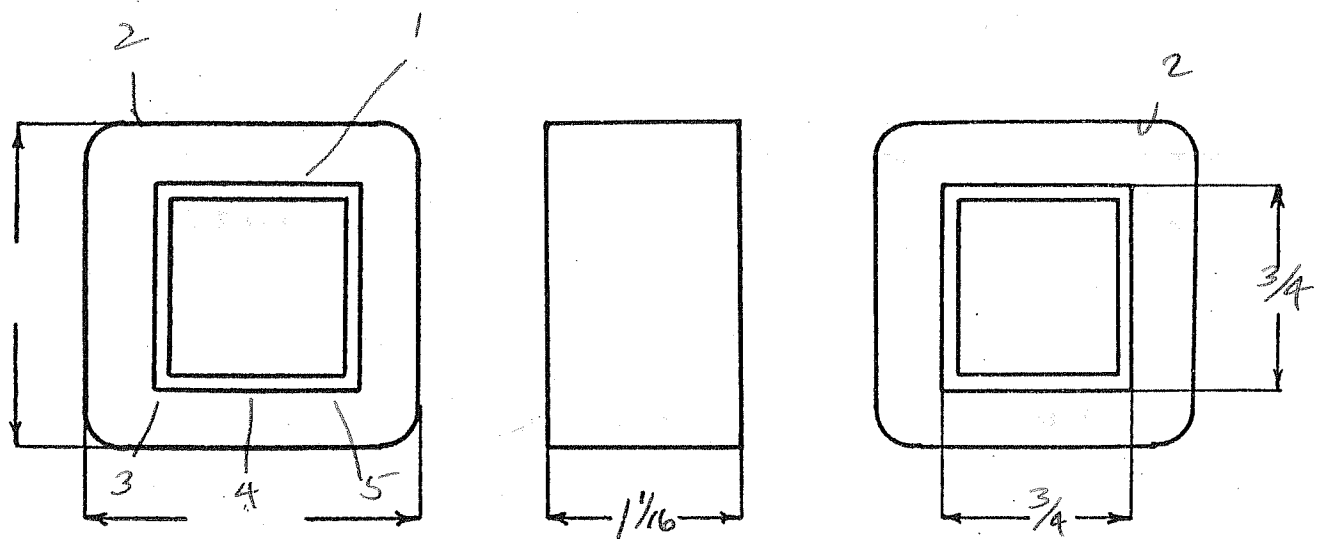
D-544-D

Winding		1-2 PR1		3-4-5 SEC		
Turns		3000		9000		
Taps		—		4500		
Wind. Lgth.		7/8		7/8		
Wire Size		#39		#39		
T. P. L.		205-15L		205-44L		
Finish		89%		89%		
Type Lead		#22 Pr. Br.		#22 Pr. Br.		
Lead Lgth.		6"		6"		
Layer Insul.		14#		14#		
Test Volt.		1250		1250		
Wrapper		1L005VC		2L0050A		

TUBE 5L00764 + 1L003VP IMPREGNATION VARNISH

CORE 3/4 x 3/4 GA. 29 GRADE B STACK 2x2

MOUNTING D-Leads



Redesigned
DESIGNED BY F. Frazer

DATE 5-5-47

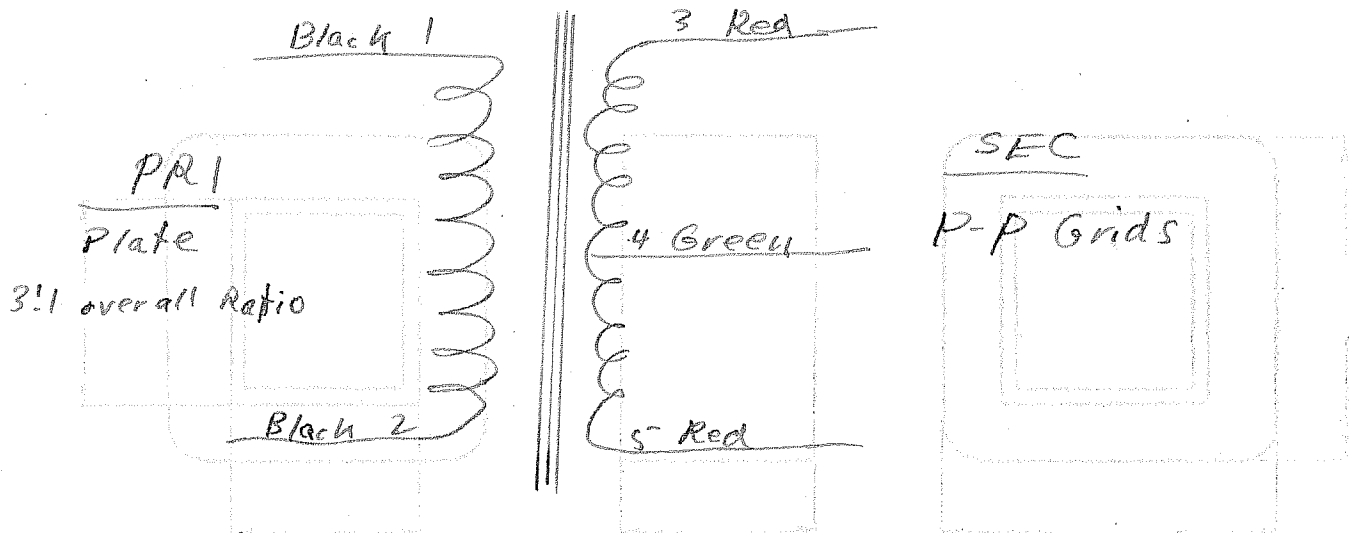
DESIGN AND TEST DATA

Rating:

Winding		1-2 PRI		3-4-5 SEC		
Mean Turn		3.54		4.56		
Resistance 25° c		750		2900		
Pounds Copper		.034		.133		
Copper Density		—		—		
Ratio Volts		40.0		60-60		
Test to Ground		1250		1250		

Iron Induction _____ @ _____ Cycles _____
 Exciting Current _____ amperes @ _____ volts 60 cycles on _____
 Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:



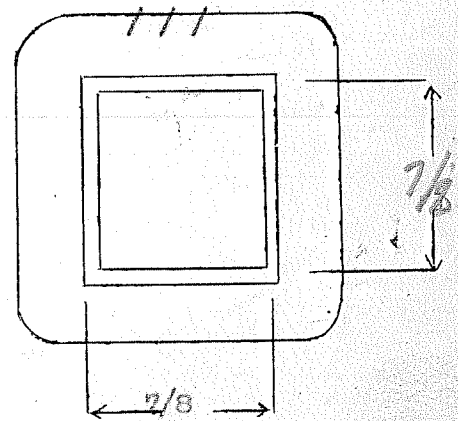
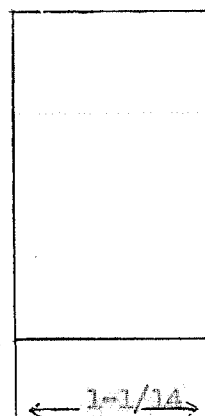
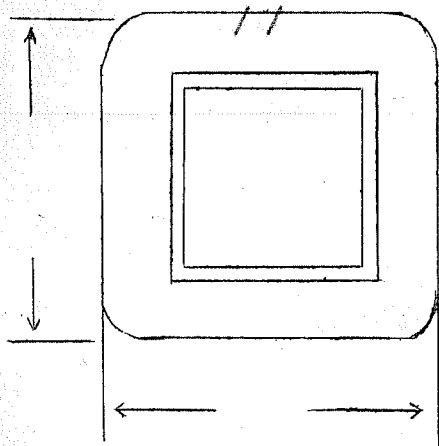
10,000 ohm plate to single grid, ratio $3\frac{1}{2}$ to 1

OLD

SPEC. NO. 8545

Winding	P	S					
Turns	4000	14000					
Taps							
Wind. Lgth.	1-1/16						
Wire Size	#39	#39					
T.P.L.	250-16	250-56					
Kind Term.	#20 Pat Br.						
Term. Lgth.	9"	9"					
Layer Insul.	14#	14#					
Test Volt.							
Wrapper	1L005VP	1L005GA					

TUBE	7L007	IMPREGNATION	WAX.
CORE	29 G-B- 2 x 2	PRIMARY V.A.	
MOUNTING	A or F		



DESIGNED BY G.W.

DATE 6/1/38

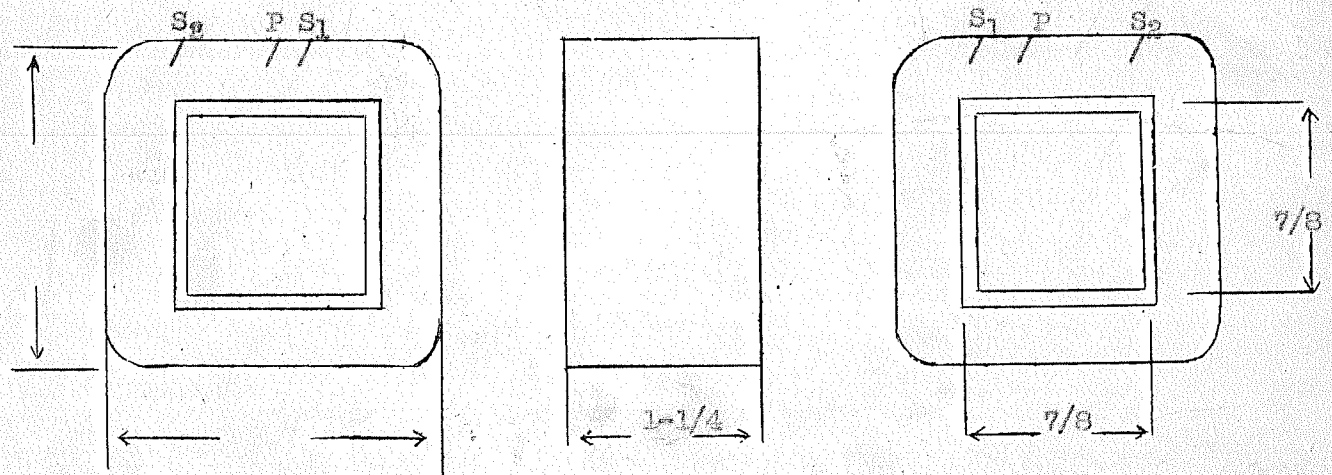
10,000 ohm plate to push pull grids--split secondary.
Overall ratio $3\frac{1}{2}$ to 1.

OLD

SPEC. NO. 8546

Winding	<i>Start Red Finish Blue</i>	<i>Black</i>	<i>Start Blue Finish Red</i>			
Turns	SEC.	TRI.	SEC.			
Taps	6300	3500	6300			
Wind. Lgth.	1-1/16	1-1/16	1-1/16			
Wire Size	#30	#30	#30			
T.P.L.	253		253			
Kind Term.	#20 Par Braid or silver braid					
Term. Lgth.	9" or 3"					
Layer Insul.	16#					
Test Volt.	16#					
Wrapper	1L007VC 4121	1L007VC 4121	2L005Ca			

TUBE	7L007 - 3L003V2	IMPREGNATION	WAX
CORE	7/8 x 7/8 - 290a "B" Grade 2 x 2	PRIMARY V.A.	
MOUNTING	A 3		

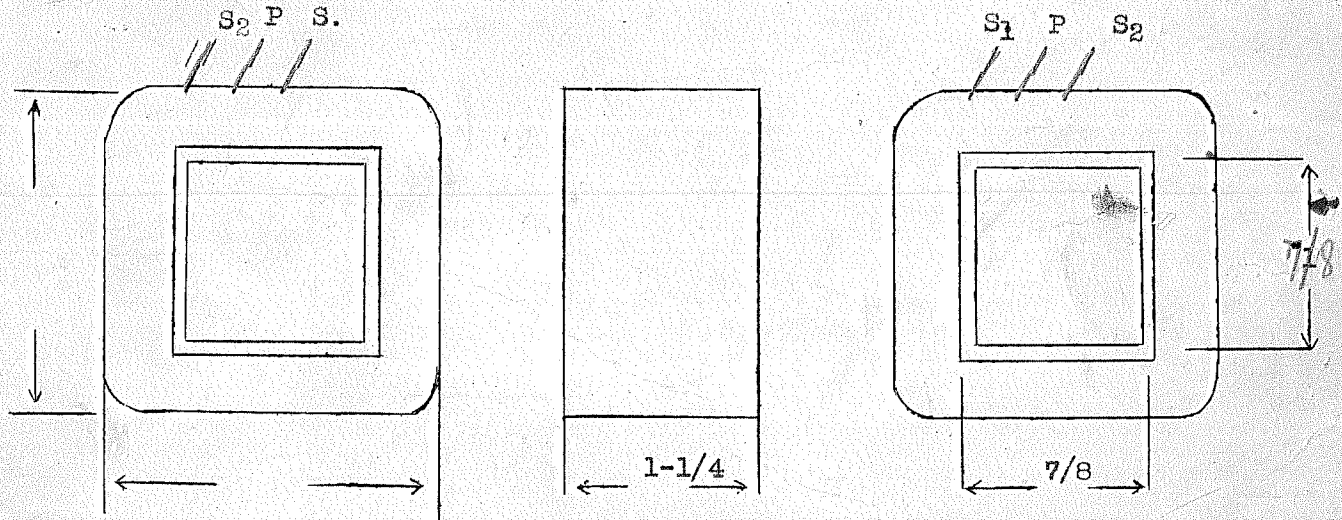


10,000 ohm plate to push pull grids--split secondary.
Ratio 1 to 1

SPEC. NO. S547

Winding	SEC.	PRI.	SEC.				
Turns	5000	5000	5000				
Taps	—	—	—				
Wind. Lgth.	1-1/16						
Wire Size	#39	#39	#39				
T.P.L.	240-21	240-21	240-21				
Kind Term.	#20 Par Br	✓	✓				
Term. Lgth.	9"	9"	9"				
Layer Insul.	14#						
Test Volt.							
Wrapper	1L005VP 4LGL	1L005VP 4LGL	1LGE 2L005GA				

TUBE	7L007	IMPREGNATION	<i>Wash</i>
CORE	7/8 x 1 - 29 Ga B - 2 x 2	PRIMARY V.A.	
MOUNTING	A out		



INTERSTAGE

Single Plate 10,000 ohms @ 8 Ma.
to
P-P Grids 62500 ohms
overall ratio 1:2.5

STOCK

SPEC. NO. S-547-A

Winding	1-2 Sec #1	3-4 Pri	5-6 Sec #2
Turns	6250	5000	6250
Taps			
Wind. Lgth.	1 1/16	1 1/16	1 1/16
Wire Size	#39	#39	#39
T. P. L.	250-25L	250-20L	250-25L
Finish	89%	89%	89%
Type Lead	#22 Pr. Br.	#22 Pri. Br.	#22 Pr. Br.
Lead Lgth.	9" Cut 13 1/2	9" Cut 13 1/2	9" Cut 13 1/2
Layer Insul.	14#	14#	14#
Test Volt.	1000	1500	1000
Wrapper	1L007VC	1L007VC	2L005GA

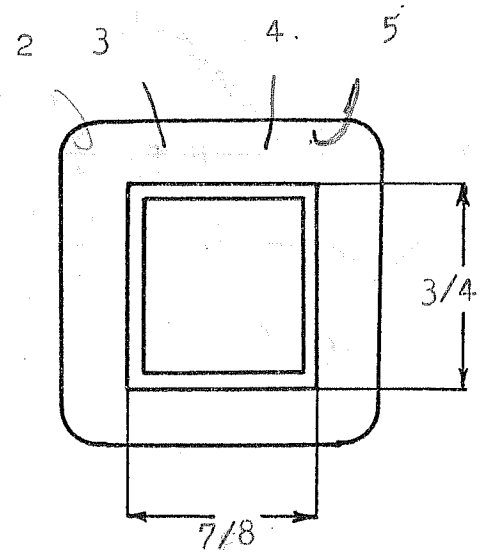
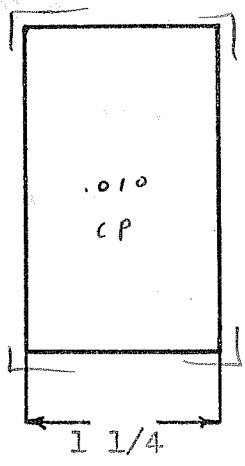
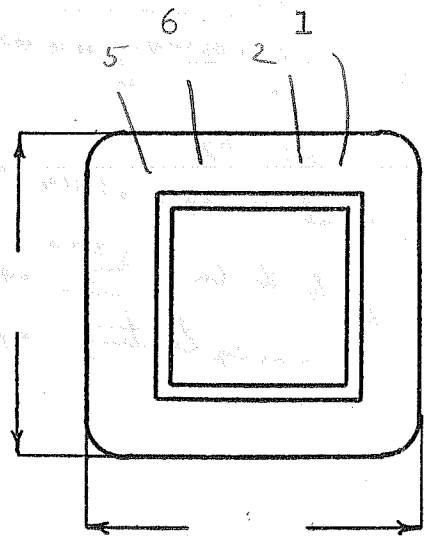
TUBE	6L007GK plus 1L003VB	IMPREGNATION	Varnish
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CORE 7/8 x 3/4 GA. 29 GRADE B STACK Butt no gap
Armite keepers

MOUNTING A

T. P. V. -
Window - $395/4375 = 90.3\%$

$E = .707 \times 100 \times 10.000 = 56.5V$
max.



DESIGNED BY

DATE

DESIGN AND TEST DATA

Rating:

Winding	1-2 Sec. #1		3-4 Pri.		5-6 Sec #2	
Mean Turn	4.00		4.80		5.60	
Resistance 25° c	1768		1695		2475	
Pounds Copper	.081		.077		.113	
Copper Density						
Ratio Volts	137.5		110		137.5	
Test to Ground	1000		1500		1000	

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:

$R_L = 10,000 \Omega @ 8 \text{ ma}$

$B_{ac} = \frac{34.9 \times 10^5 \times 56.5}{50 \times .617 \times 5000} = 1280$

$B_{dc} = \frac{.495 \times 5000 \times .008}{.004} = 4950 \text{ H} = .6$

$\mu = 1,000$ half of audio A

$L = \frac{3.18 \times 10^{-8} \times .617 \times (5000)^2}{.004 + \frac{5 \times 10^{-4}}{1000}} = 5.30 \text{ H}$

$1\frac{1}{2} \text{ db dn } X_p = \frac{10000}{.68} = 15,600$

$f_{reg} \text{ } 1\frac{1}{2} \text{ db dn} = \frac{15600}{2\pi \times 53.0} = 47.0 \sim$

$Z = 62,500 - 10,000$

$Z_r = 6.25 - 1$

$T_r = 2.5 - 1$

$T = 12,500 - 5,000$

High End =

$L = \frac{.72 \times 4.80 \times (5000)^2}{1.063} \sqrt{\frac{.0076 \times .007 + \frac{.113 + .090 \times .01}{3}}{.004}}$

$L = .087 \text{ H}$

$1\frac{1}{2} \text{ db dn } X_p = .68 \times 10,000 = 6400$

$f_{reg} \text{ } 1\frac{1}{2} \text{ db dn} = \frac{6400}{2\pi \times .097} = 10,500 \sim$
neglecting capacitance

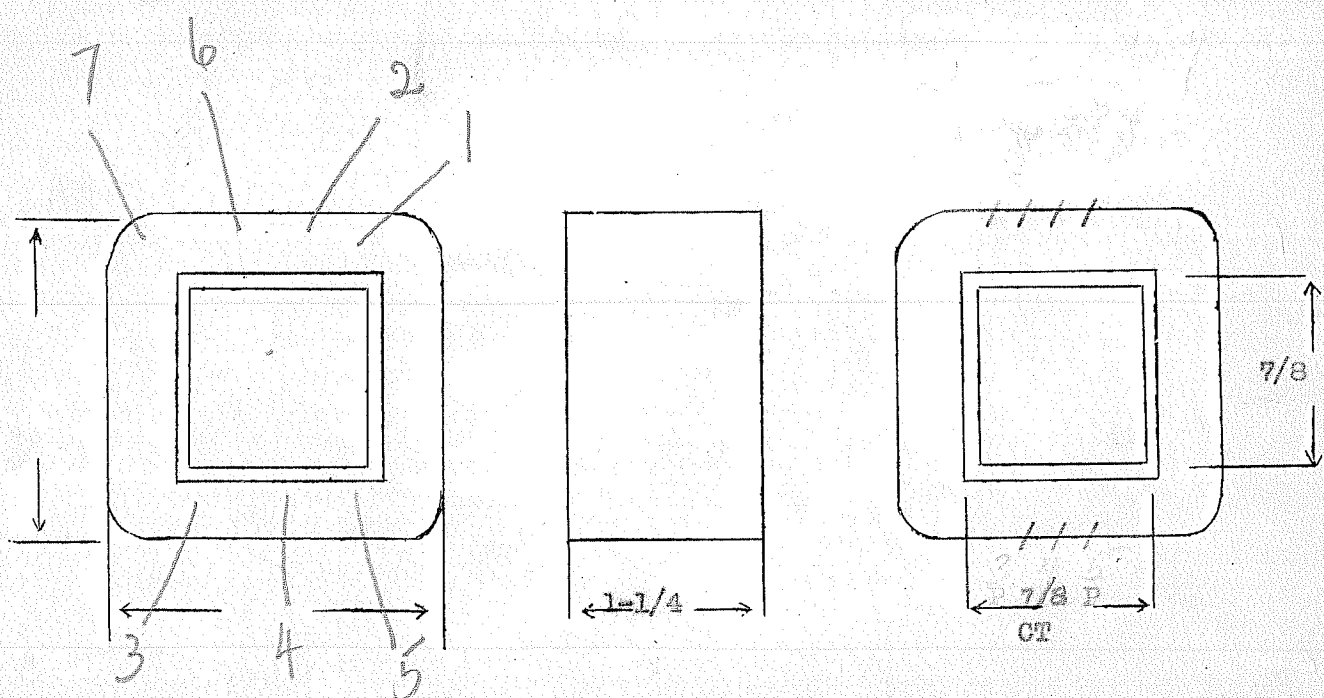
Push Pull 10,000 ohm plates to push pull grids.
1.5 to 1 overall ratio

Old Stock

SPEC. NO. 8548

	<i>Red St.</i> SEC.	<i>Blue Fin.</i> PRI.	<i>Blue St.</i> SEC.	<i>Red Fin.</i> PRI.				
Winding	1-2	3-4-5	6-7					
Turns	4500	6000	4500					
Taps		3000						
Wind. Lgth.	1-1/16	✓	✓					
Wire Size	#39	#39	#39					
T.P.L.	250-18	250-24	250-18					
Kind Term.	#20 Par Braid							
Term. Lgth.	9"	9"	9"					
Layer Insul.	16#	16#	16#					
Test Volt.								
Wrapper	4LGL 1L005VC	4LGL 1L005VC	2L005Ga					

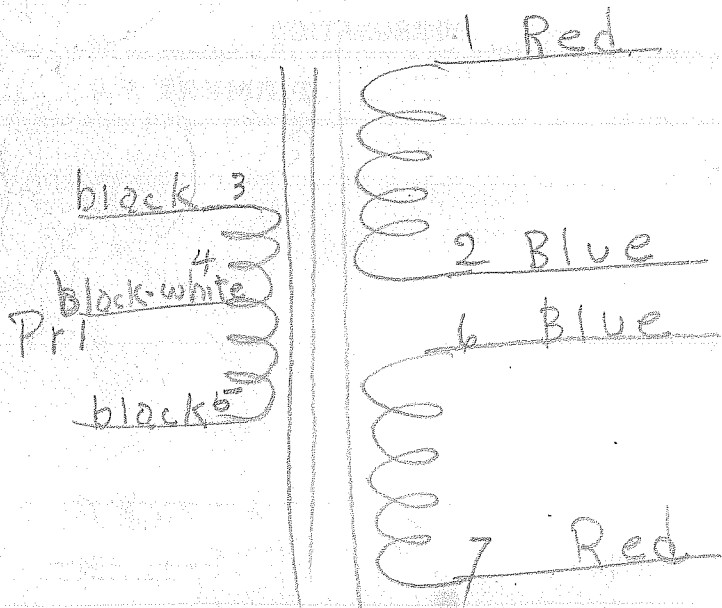
TUBE	7L007	IMPREGNATION	WAX.
CORE	7/8 x 7/8 - 20 Ga B - 3 x 2	PRIMARY V.A.	
MOUNTING	 D		



DESIGNED BY G.W.

DATE 4/13/37

47

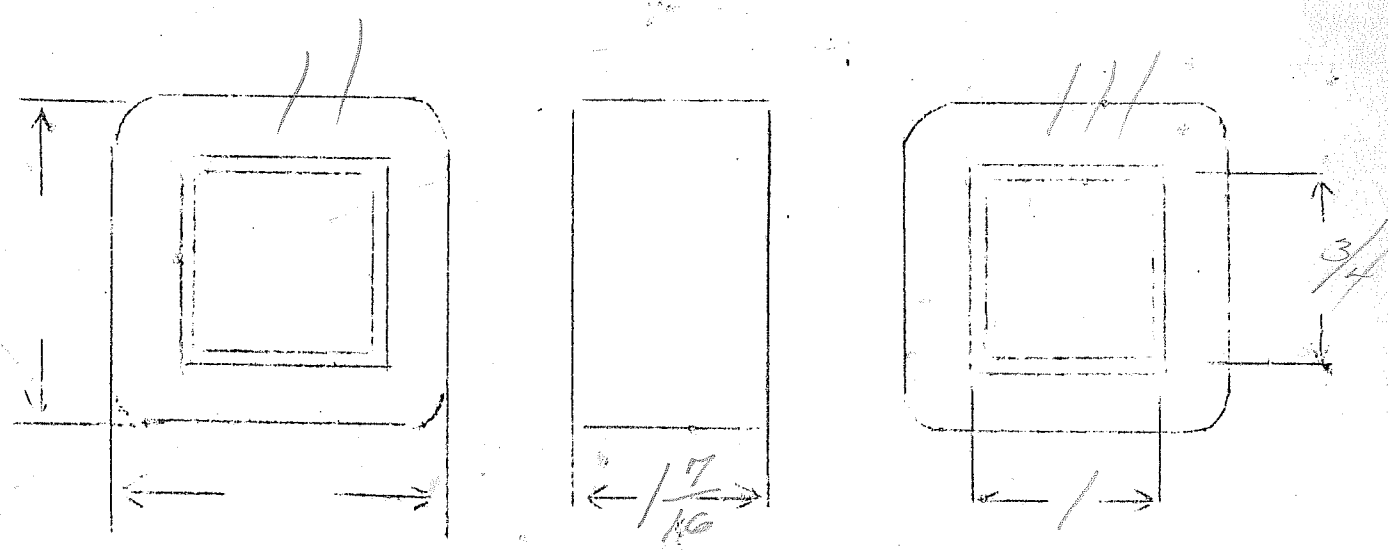


2000 or 1000 to grid

SPEC. NO. 549

Winding	SEC	PRI				
Turns	12000	1690				
Taps	—	1200				
Wind. Lgth.	1.25	1.25				
Wire Size	#39	#32				
T.P.L.	280-44	130-14				
Kind Term.	#20 Braid	#20 Braid				
Term. Lgth.	9'	9'				
Layer Insul.	16#	30#				
Wrapper	2007VC	210055A				

TUBE | 72007 | IMPREGNATION | WAX
 CURE | 1X 3/4 29 Ga "B" GRADE 2X2



$$\frac{100000}{2000} = 50$$

$$\frac{N_1}{N_2} = 7.1$$

$$\frac{400000}{1000} = 400$$

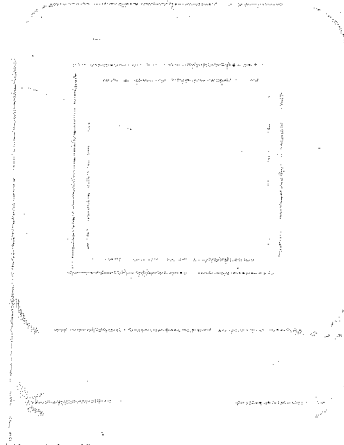
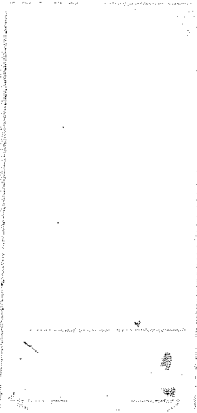
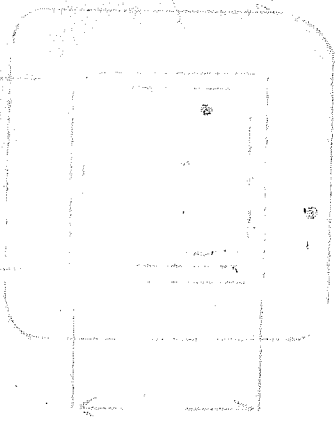
$$\frac{N_1}{N_2} = 10$$

Primary Color Code		Secondary Color Code	
Start	White	Start	Red
Top	Black	C. T.	Blue
Finish	Yellow	Finish	Red

0 0
 0 0
 1000 0
 0 5
 2000 0
 0 0
 5549

9

IMPERMEATION



Windig
 Turn
 Turn
 Wind. (grd)
 Wire size
 T.P.L.
 Kind Term
 Term. (ath)
 Layer (ant)
 Wavelength
 Tube
 CURR

AUDIO OUTPUT TRANSFORMER

S T O C K

7000 - 4 Ohm
4 Watts

SPEC. NO. D-550-D

Winding	Primary	Secondary
Turns	2500	60
Taps	-	-
Wind. Lgth.	3/4"	3/4"
Wire Size	#37	#21
T. P. L.	139 - 18L	20 - 3L
Finish Pitch		
Type Lead	#22 Pr. Br.	#22 Pr. Br.
Lead Lgth.	7"	7"
Layer Insul.	1L 20#G	1L 50#G
Test Volt.	1500	-
Wrapper	1L .007" VC	2L .005" GA

TUBE	4L - .007" GK	IMPREGNATION	VARNISH
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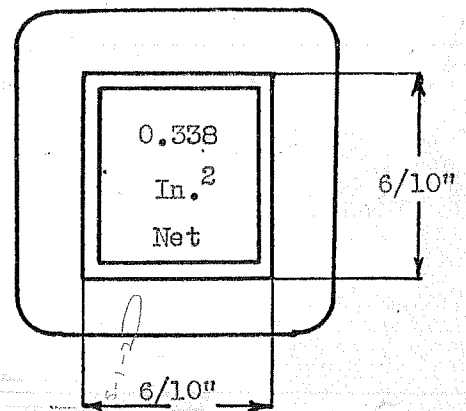
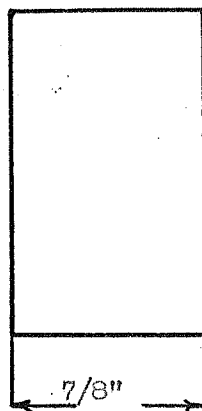
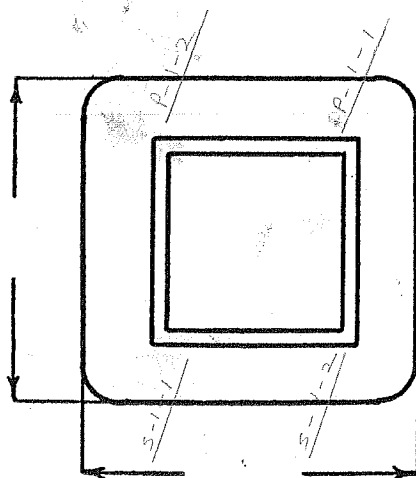
CORE 6/10 x 6/10 E & I GA. 29 GRADE D - Annealed STACK Butt - .005 Gap

MOUNTING "D" - Leads Only

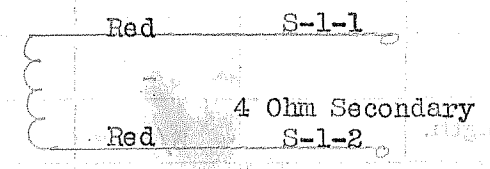
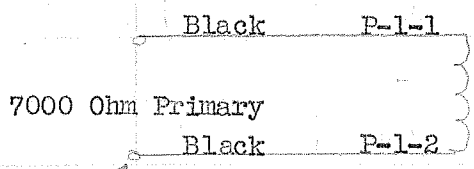
NOTE: All multiple-wound.

Wire Net = 0.207" (0.200")
Cu = 496 @ 40 Ma.
TPV = 15
Fe = 89 @ 50 Cycle

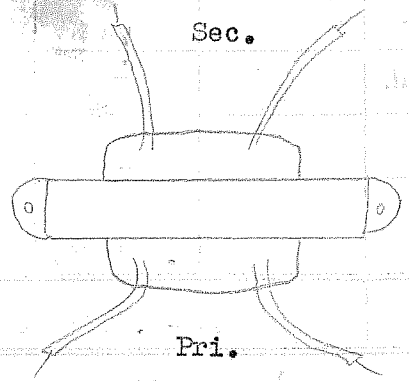
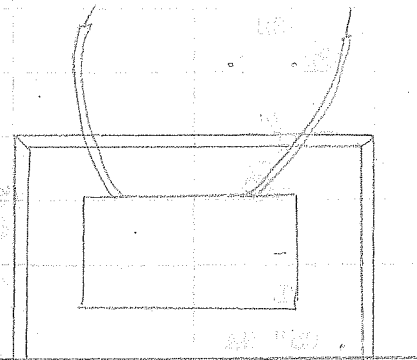
NOTE: Stamp coils before impregnating.



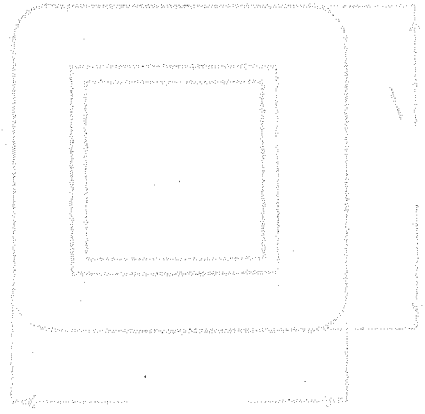
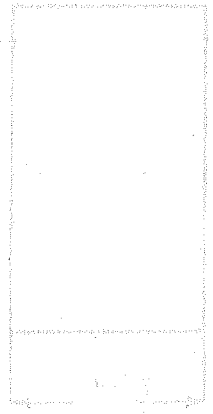
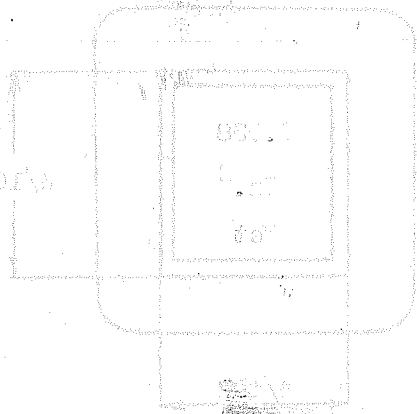
D-550-D



Prim V = 115
Sec V = 2.5
Cur I = 70 ma



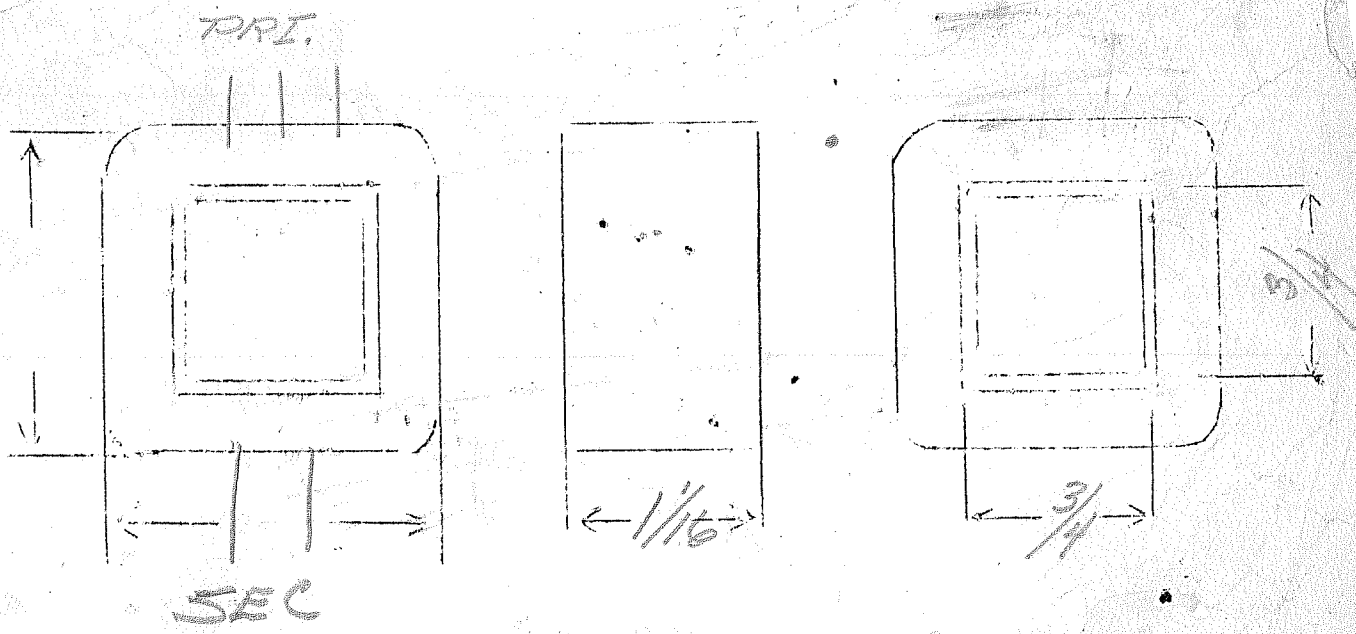
- Z = 7000 - 4
- Z_R = 1750 - 1
- T_R = 41.7 - 1
- T = 2500 - 60



4.82V

SPEC. NO. 557

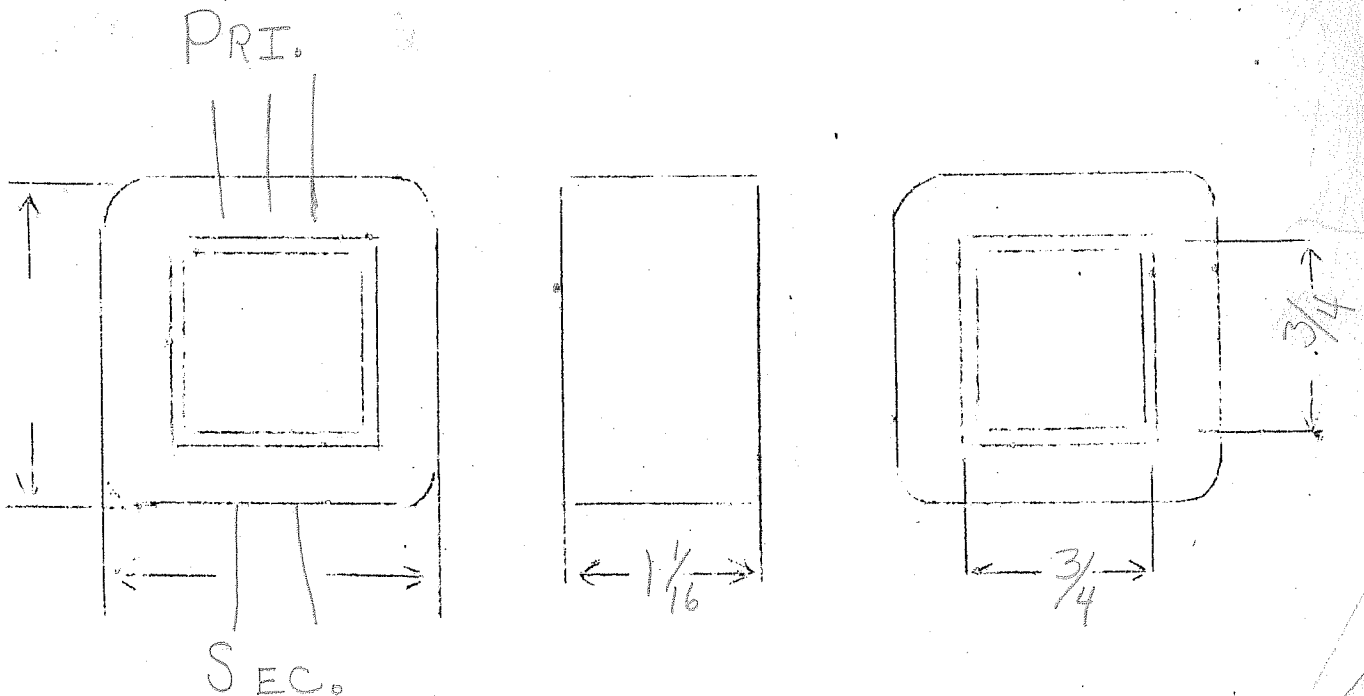
Winding	PRI	SEC				
Turns	4000	72				
Taps	2000	NONE				
Wind. Lgth.	7/8	7/8				
Wire Size	36#	22#				
T.P.L.	145	24				
Kind Term.	5.1 BX	WIRE ONLY				
Term. Lgth.	3"	3"				
Layer Insul.	20001	005				
Wrapper	2200569	2200569				
TUBE	22007		IMPREGNATION		MAX	
CURE	3/4 X 3/4 16W		2 X 2 - 2990			



9 Ω voice coil

SPEC. NO. 552

Winding	PRI	SEC.				
Turns	3000	64				
Taps	1500	NONE				
Wind. Lgth.	7/8	7/8				
Wire Size	35E	21E				
T.P.L.	125	22				
Kind Term.	Sil. Br.	WIRE ONLY				
Term. Lgth.	3"	3"				
Layer Insul.	16 lb. Gl.	005 GA				
Wrapper	2L005GA	2L005GA				
TUBE	4L007	IMPREGNATION				WAX
CURE	3/4 x 3/4	NW	2X			



2 Watts

SPEC. NO. D-553-D

Winding	Primary	Secondary				
Turns	2400	60 ⁻³	EXACT			
Taps	-	21 - 42	EXACT			
Wind. Lgth.	9/16"	9/16"	= 0.5625"			
Wire Size	#33	#23				
T. P. L.	115 - 21L	21 - 3L				
Finish PITCH	90%	89%				
Type Lead	#22 Pr. Br.	W. O. to Lugs				
Lead Lgth.	9"	9"				
Layer Insul.	1L 20#G	1L 50#G				
Test Volt.	1500V	-				
Wrapper	1L .007" VC	2L .005" GA				

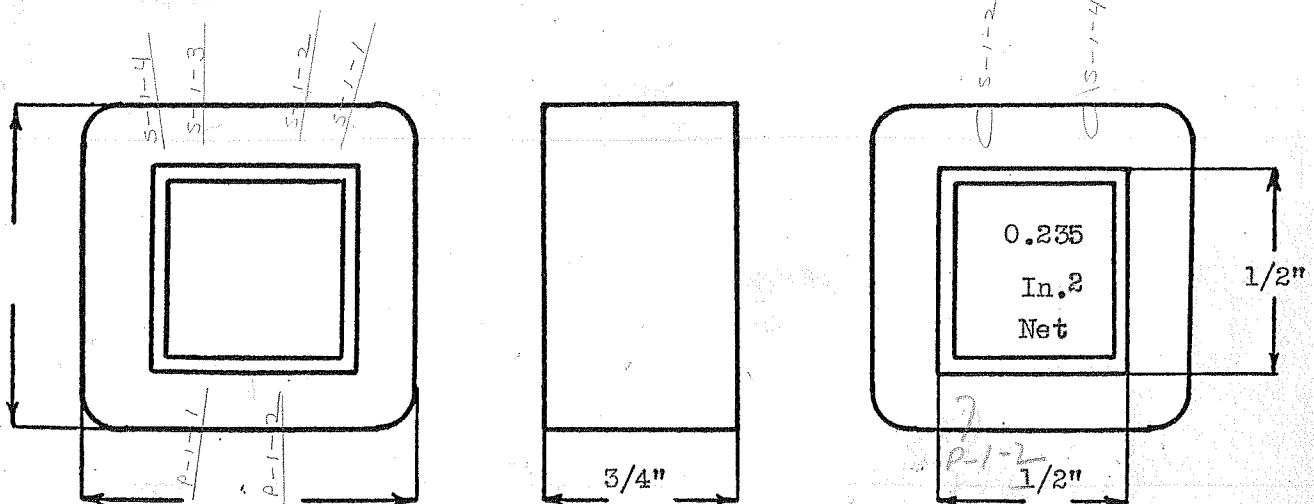
NOTE: MULTIPLE-WINDERS ALLOW ONE TURN AT FIRST LAYER AND SECOND LAYER FOR FIRST AND SECOND TAPS.

TUBE	4L - .007" GK	IMPREGNATION	VARNISH
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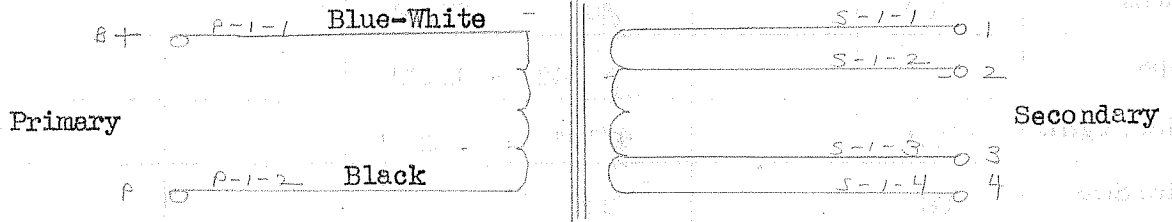
CORE 1/2" x 1/2" E & I GA. 29 GRADE D - Annealed STACK Butt - No Gap

MOUNTING "D" - Primary - Leads Secondary - Lugs *Leads* NOTE: ALL MULTIPLE-WOUND

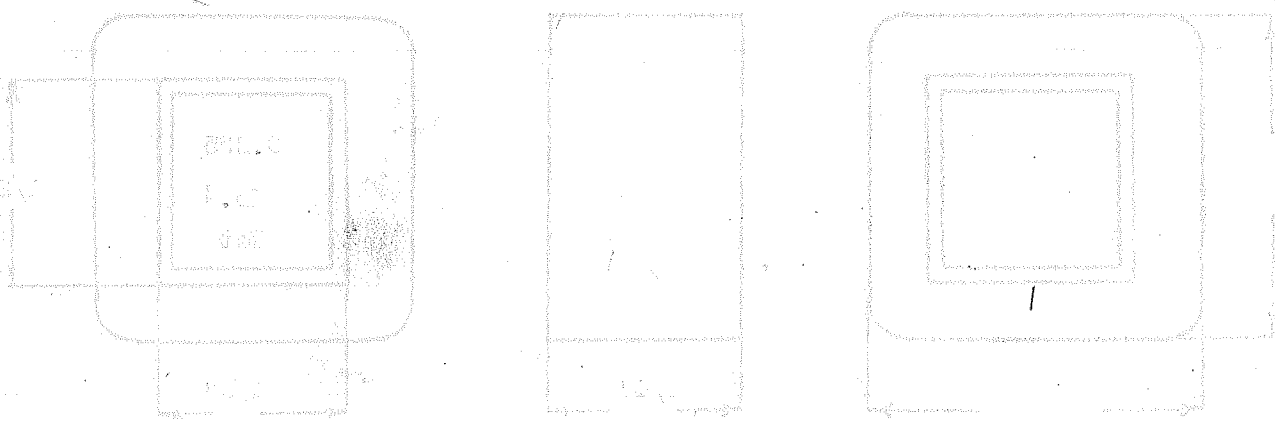
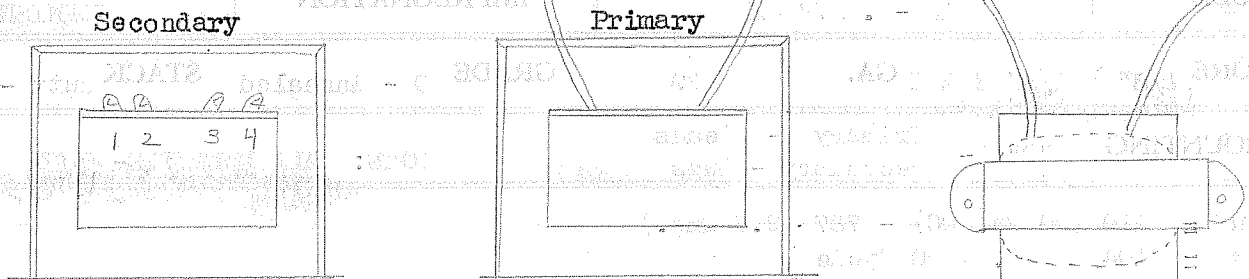
- Cu = 410 (38 Ma. DC) - 727 (0.7 Amp.)
- Fe = 104 M Max. @ 50 Cycle
- TPV = 18.4
- WN = 0.196" (0.192")



#D-553-D



T = 2400 - 60 - 42 - 21
 $T_R = 114 - 2.85 - 2 - 1$
 $Z_R = 13,000 - 8.15 - 4 - 1$
 $Z = 7,000 - 4.4 - 2.15 - 0.54$
 $Z = 6.3 - 3.1 - 0.77$



Universal Output

5-4 Watt

SPEC. NO. D-554

Winding	Primary	Secondary			
Turns	2640	50			
Taps	1320	69 - 45 - 32	Exact!		
Wind. Lgth.	23/32"	23/32" =	0.718"		
Wire Size	#38	#23			
T. P. L.	147 - 181	23 - 41			
Finish Pitch	90%	76%			
Type Lead	#22 Dulac	W. O.			
Lead Lgth.	9"	3"			
Layer Insul.	1L 16/G	1L .005" GA			
Test Volt.	1250V	-			
Wrapper	1L .005" VC	2L .005" GA			

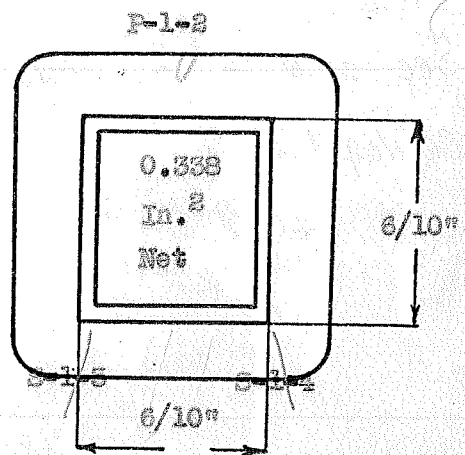
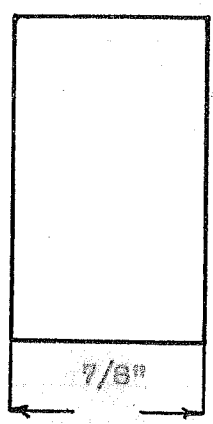
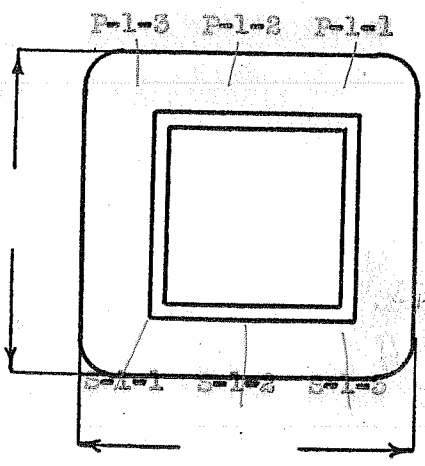
TUBE	4L - .007" GK	IMPREGNATION	VARNISH
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CORE 6/10" x 6/10" E & I GA. 29 GRADE "B" STACK Butt - No Gap

MOUNTING "D" - Leads on Primary, Leads on Secondary. NOTE: Multi-Wind Primary Single-Wind Secondary

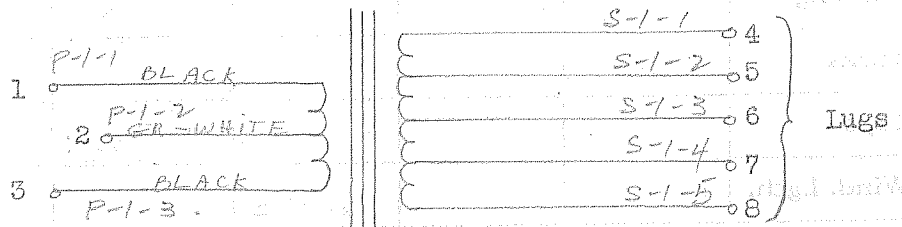
Cu = 410 (38 Ma. DC) - 500 @ 1 Amp.
 Fe = 25.2 @ 50 Cycle
 TPV = 50.6
 Wire Net = 0.212" (0.204")

$$\sqrt{7000 \times 4} = 52V$$

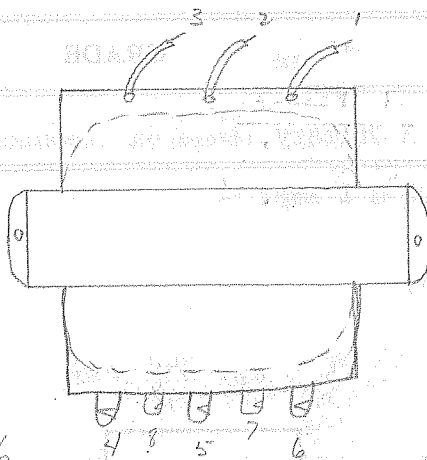
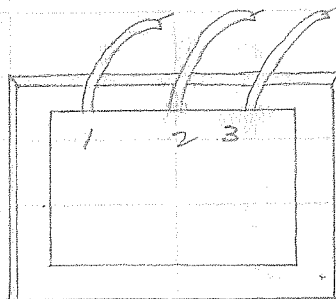
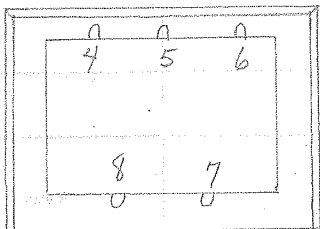


Re-DESIGNED BY H.W.S.

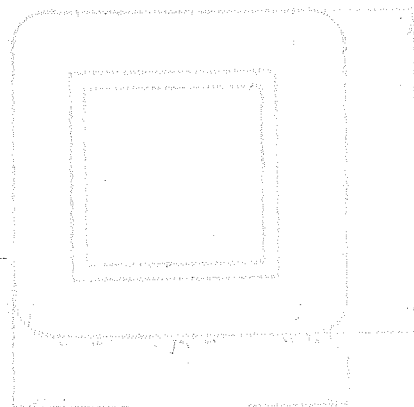
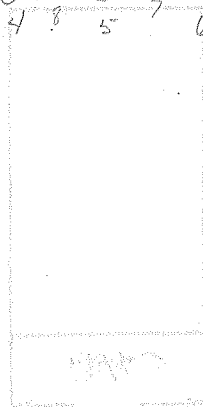
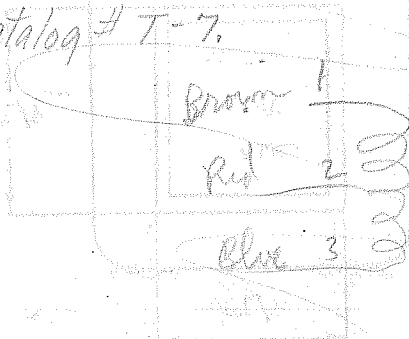
DATE 12 - 23 - 41



	1-3	4-8	4-7	4-6	4-5
Z	= 7000	- 7.6	- 4.5	- 1.97	- 0.984
Z _R	= 6880	- 7.74	- 4.58	- 2.00	- 1
T _R	= 83	- 2.78	- 2.14	- 1.414	- 1
T	= 2640	- 89	- 69	- 45	- 52
Z	= 10,000	- 11.07	- 6.55	- 2.87	- 1.453



See chart # 2, page 6,
catalog # T-7.



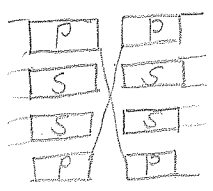
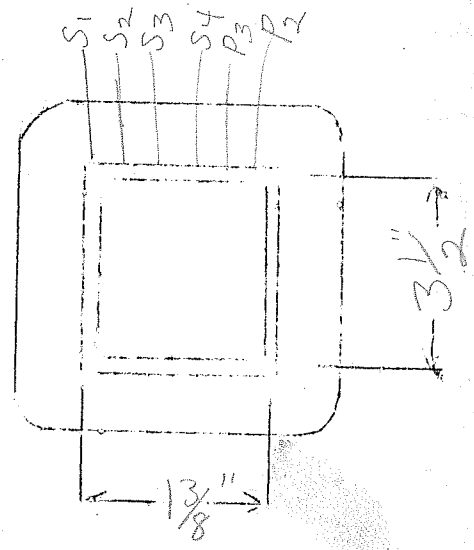
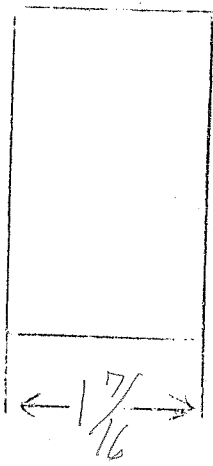
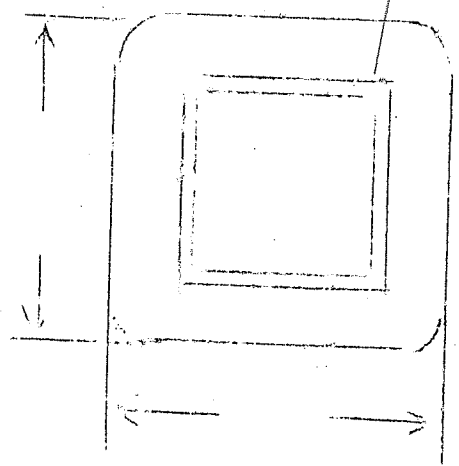
SPEC. NO. 555

Winding	PRI	SEC.				
Turns	1250	1000				
Taps	—	—				
Wind. Lgth.	1 1/8	1 1/8				
Wire Size	#29E	#29E				
T.P.L.	86	86				
Kind Term.	#20 P. Br.	#20 P. Br.				
Term. Lgth.	10"	10"				
Layer Insul.	50#	50#				
Wrapper	5L 50#GL. 24005 V.G.	5L 50#GL. 24005 V.G.	OUTSIDE	-24005 GA		

TUBE 176007 | IMPREGNATION | VARNISH

CURE 1 1/8 x 3 1/2 (1/4 x 3) WINDOW

Q - All Leads OUT



PRI. - 4 Coils 1250 Each.
Sec. - 4 Coils 1000 Each.

Universal Output

PP or Single to
Variable Voice Coil
8 Watt Rating

SPEC. NO. D-556

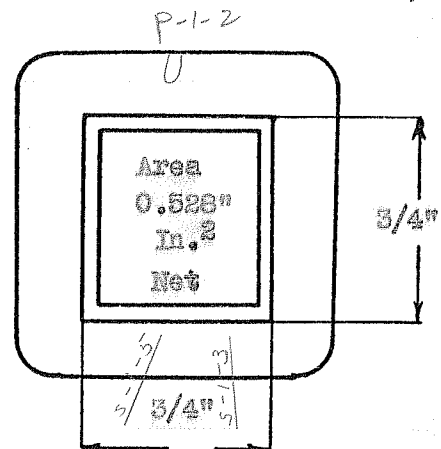
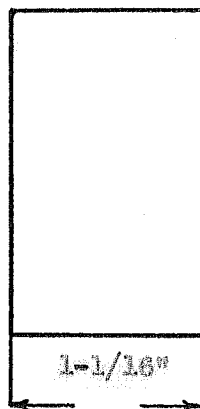
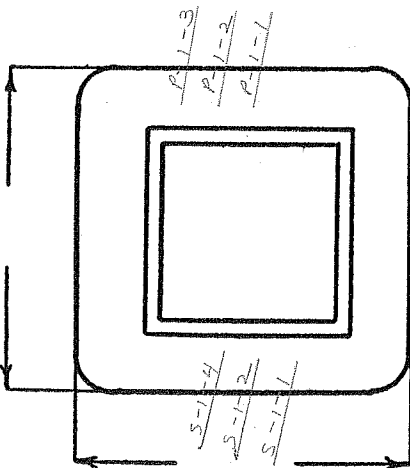
Winding		Primary		Secondary		
Turns		3300		119		
Taps		1650		41 - 62 - 95		Two turns for taps.
Wind. Lgth.		13/16"		15/16"	0.8125"	EXACT.
Wire Size		#37		#23		
T. P. L.		150 - 22L		32 - 5L		
Finish pitch		90%		93%		
Type Lead		#22 Pr. Rr.		W. O.		
Lead Lgth.		9"		3"		
Layer Insul.		1L 20/G		1L 50/G		
Test Volt.		1250		-		
Wrapper		1L - 005 VC 2L - #50G		2L .005" GA		

TUBE	4L - .007" CR	IMPREGNATION	VARNISH
------	---------------	--------------	---------

CORE 3/4" x 3/4" E & I GA. 29 GRADE D - Annealed STACK Butt - No Gap

MOUNTING "D" Leads on Primary
Lugs on Secondary NOTE: ALL MULTIPLE WOUND

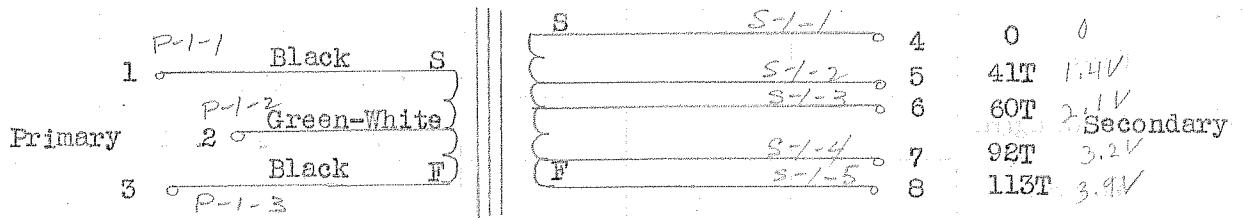
Cu = 495 (40 Ma. D. C.) - 500 @ 1 Amp.
Fe = 96.7 @ 50 Cycle
TPV = 8.8 (375V)
Wire Net = 0.280" (0.261")



Re DESIGNED BY HWS

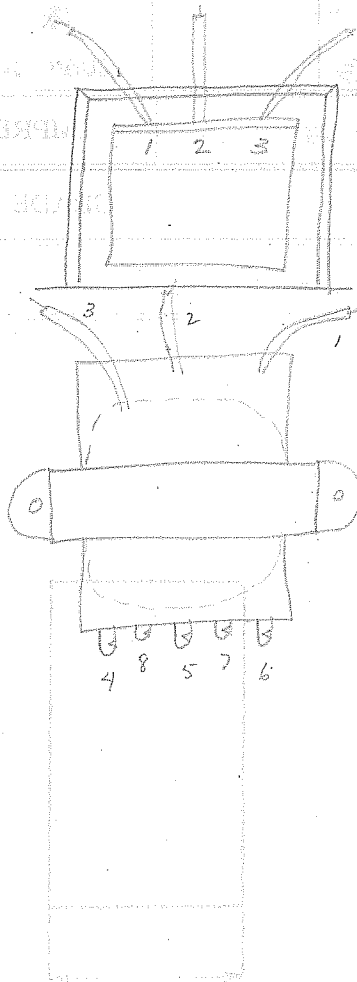
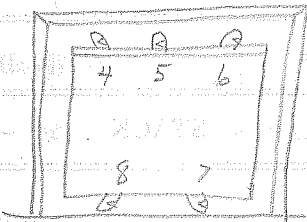
DATE 7-30-41

38
32

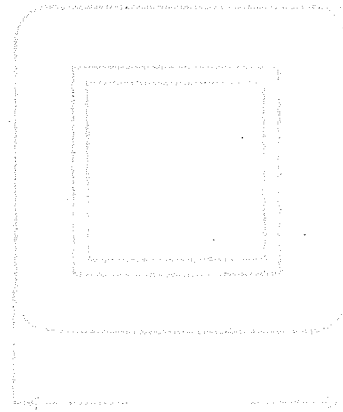
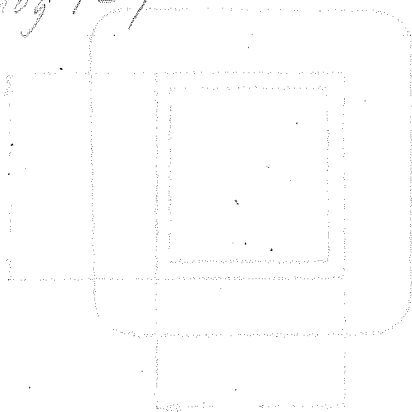


T = 3300 - 113 - 92 - 60 - 41
 T_R = 80.5 - 2.76 - 2.24 - 1.46 - 1
 Z_R = 6480 - 7.62 - 5.02 - 2.13 - 1
 Z = 14,000 - 16.7 - 10.8 - 4.6 - 2.16

43 - 65 - 97 - 121T (Total)



See chart #2, page 6,
Catalog T-7



UNIVERSAL OUTPUT

STOCK

P-P or single plate to
variable voice coil
10 @ watts

SPEC. NO. D-556-D

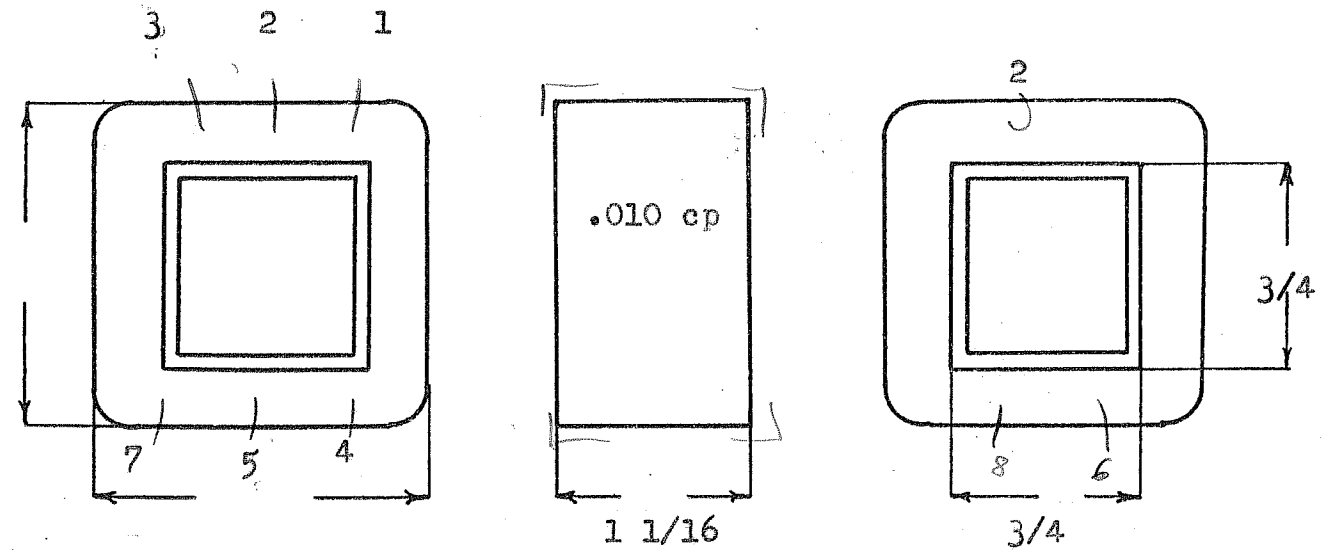
Winding	1-2-3 Pri.	4-5-6-7-8 Sec.
Turns	3300	113
Taps	1650	41-60-92
Wind. Lgth.	13/16	13/16
Wire Size	#37	#23
T. P. L.	150-22L	32-5L
Finish	90 1/2%	93%
Type Lead	#22 Parafin Braided	W.O. to Lugs
Lead Lgth.	9"	3"
Layer Insul.	20#	50#
Test Volt.	1250	1000
Wrapper	1L005VC 2L 50#	2L005GA

TUBE	5L007GK plus 1L003VE	IMPREGNATION	Varnish
------	----------------------	--------------	---------

CORE 3/4 x 3/4 GA. 29 GRADE B STACK Butt no gap

MOUNTING D - Lugs & leads

T.P.V. -
window - $.332 / .375 = 88.5\%$



DESIGNED BY *Rewritten F.F.*

DATE

DESIGN AND TEST DATA

Rating:

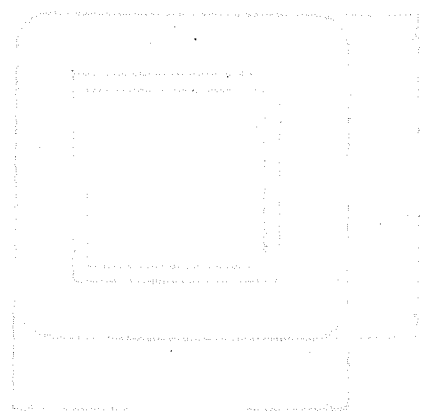
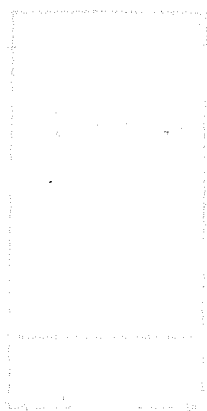
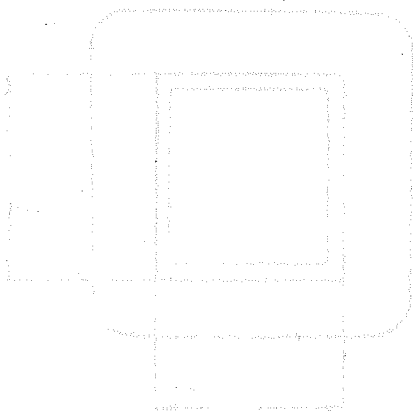
Winding	1-2-3 Pri.	4-5-6-7-8 Sec.			
Mean Turn	3.77	4.81			
Resistance 25° c	554	.99			
Pounds Copper	.064	.056			
Copper Density					
Ratio Volts	115-115	2.86-4.19 6.42-7.88			
Test to Ground	1250	1000			

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:



UNIVERSAL OUTPUT

STOCK

P-P or single plate to
variable voice coil
8 watts

SPEC. NO. D-556-D

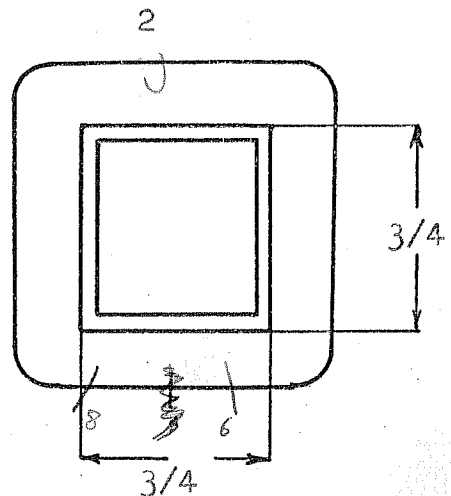
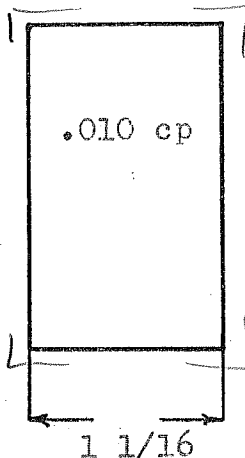
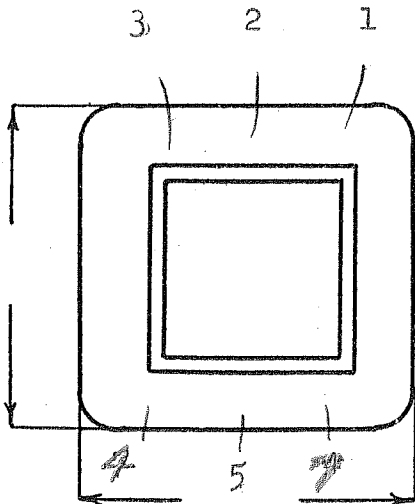
Winding	1-2-3 Pri.	4-5-6-7-8 Sec.			
Turns	3300	113			
Taps	1650	41-60-92			
Wind. Lgth.	13/16	13/16			
Wire Size	#37	#23			
T. P. L.	150-22L	32-5L			
Finish	90 1/2%	93%			
Type Lead	#22 Parafin Braid	W.O. to Lugs			
Lead Lgth.	9"	3"			
Layer Insul.	20#	50#			
Test Volt.	1250	1000			
Wrapper	1L005VC 2L 50#	2L005GA			

TUBE 5L007GK plus 1L003V6 IMPREGNATION Varnish

CORE 3/4 x 3/4 GA. 29 GRADE B STACK Butt no gap

MOUNTING D - Lugs & leads

T.P.V. -
Window - $.332 / .375 = 88.5\%$



DESIGNED BY

Rewritten
F.F.

DATE

DESIGN AND TEST DATA

Rating: _____

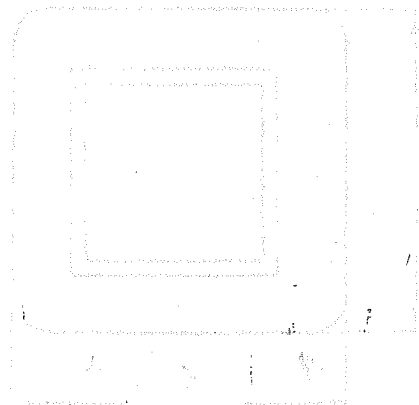
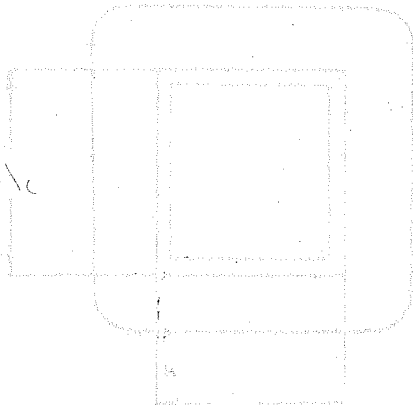
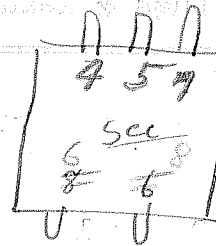
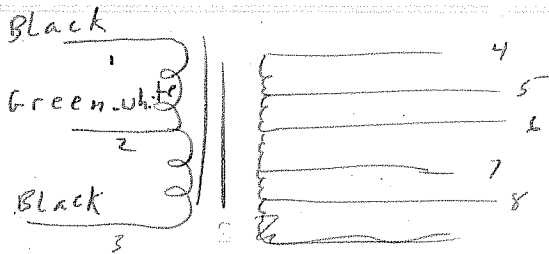
Winding		1-2-3 Pri.		4-5-6-7-8 Sec.		
Mean Turn		3.77		4.81		
Resistance 25° c		554		.99		
Pounds Copper		.064		.056		
Copper Density						
Ratio Volts		115-115		2.86-4.19 6.42-7.88		
Test to Ground		1250		1000		

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:



Universal Audio Output

15 Watts

SPEC. NO. D-557

Winding		Primary		Secondary			
Turns		4000		135			
Taps		CT - 2000		113 - 79 - 43			
Wind. Lgth.		1-1/32"		1-1/32" = 1.03"			
Wire Size		#35		#22			
T. P. L.		154 - 26L		34 - 4L			NOTE: SINGLE WIND
Finish Pitch		91%		83%			SECONDARY - EXACT
Type Lead		#32 Pr. Br.		W.O. SLEEVE			TURNS; SAME DIRECTION
Lead Lgth.		9"		9"			OF WINDING AS PRIMARY
Layer Insul.		1L 20/G		1L .005" GA			
Test Volt.		1500 ✓		1500 ✓			
Wrapper		1L .007" VC		2L .005" GA			

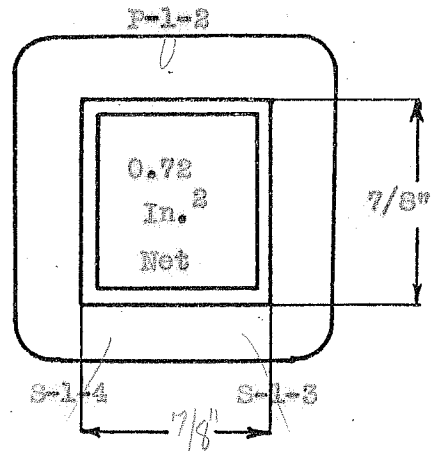
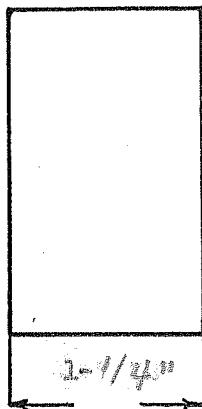
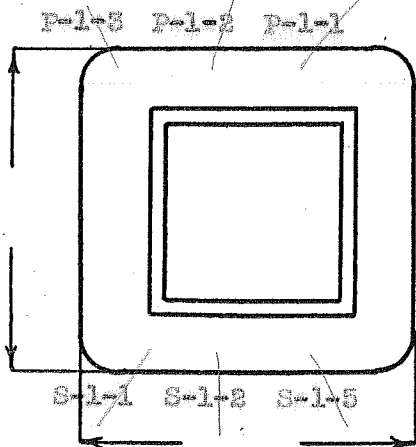
TUBE	6L - .007" GK	IMPREGNATION	VARNISH
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CORE 7/8" x 7/8" II & I GA.	29	GRADE B	STACK Butt - No Gap
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MOUNTING D-4, Leads on Primary, ^{Leads} Leads on Secondary

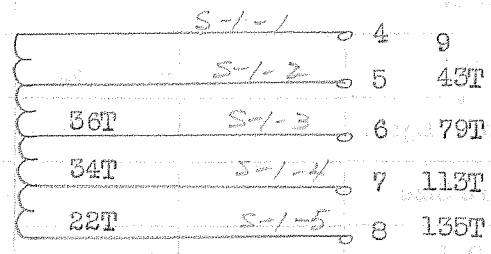
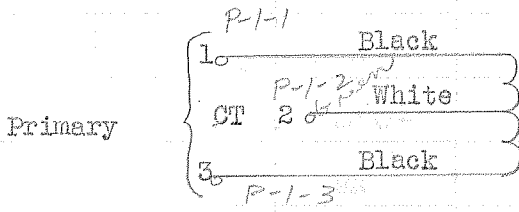
Cu = 767 (40 Ma. DC) - 642 @ 1 Amp.
 Fe = 71.4 @ 50 Cycle
 TPV = 8.75 (457V)
 Wire Net = 0.317" (0.305")

$$\sqrt{15 \times 14,000} = 457V$$

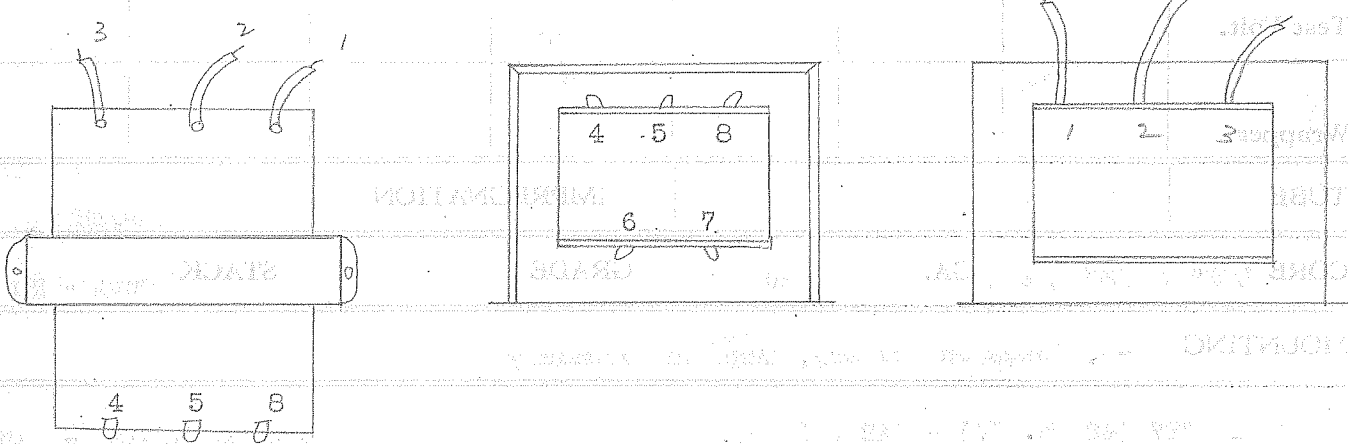


DESIGNED BY H. W. S.

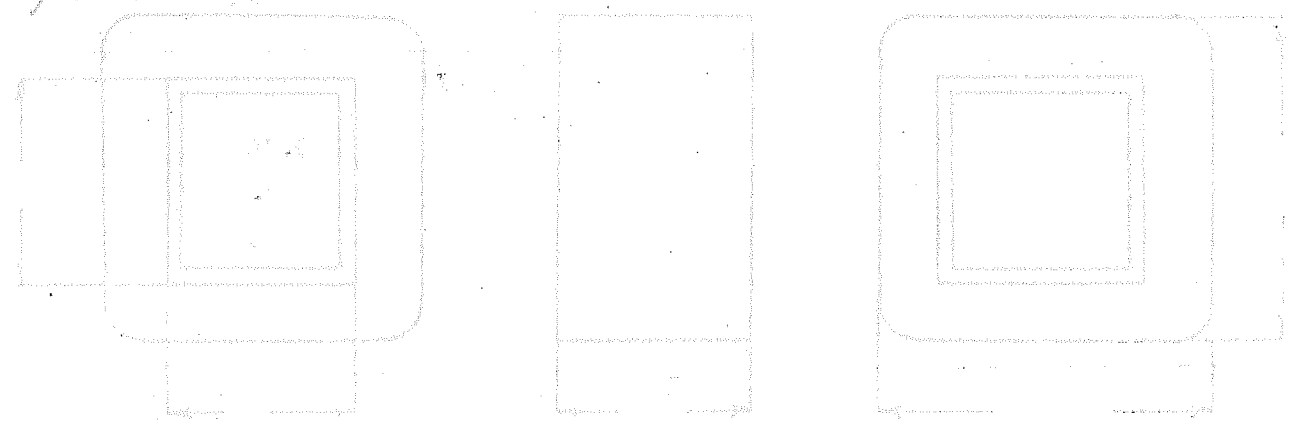
DATE 1 - 16 - 48



T	=	4000	-	135	-	113	-	92	-	79	-	70	-	43	-	34	-	22
T _R	=	182	-	6.14	-	5.14	-	4.18	-	3.59	-	3.18	-	1.95	-	1.55	-	1
Z _R	=	33,100	-	37.7	-	26.4	-	17.5	-	14.3	-	10.1	-	3.8	-	2.4	-	1
Z	=	10,000	-	11.4	-	7.98	-	5.3	-	4.32	-	3.05	-	1.15	-	0.725	-	0.302
	=	2,000	-	2.28	-	1.60	-	1.06	-	0.865	-	0.611	-	0.23	-	0.141	-	0.0605



See chart # 2, page 6,
catalog T-7.



Audio Output (Low Level)

10,000 Ohm Plate to 500, 200, & 125 Ohm

SPEC. NO. S-537

Winding	Pri. #1		Sec.		Pri. #2	
Turns	1900		850 - 12		1900	
Taps	-		539 - 425		-	
Wind. Lgth.	1-1/16"		1-1/16"		1-1/16"	1.06"
Wire Size	#38		#29		#38	
T. P. L.	212 - 9L		78 - 12L		212 - 9L	
Finish Pitch	90%		89%		90%	
Type Lead	#22 Pr. Br.		#22 Pr. Br.		#22 Pr. Br.	
Lead Lgth.	9"		9"		9"	
Layer Insul.	1L 16/G		1L 30/G		1L 16/G	
Test Volt.	1250					
Wrapper	1L .005" VC		1L .005" VC		2L .005" GA	
TUBE	5L - .007" GK		IMPREGNATION		VARNISH	

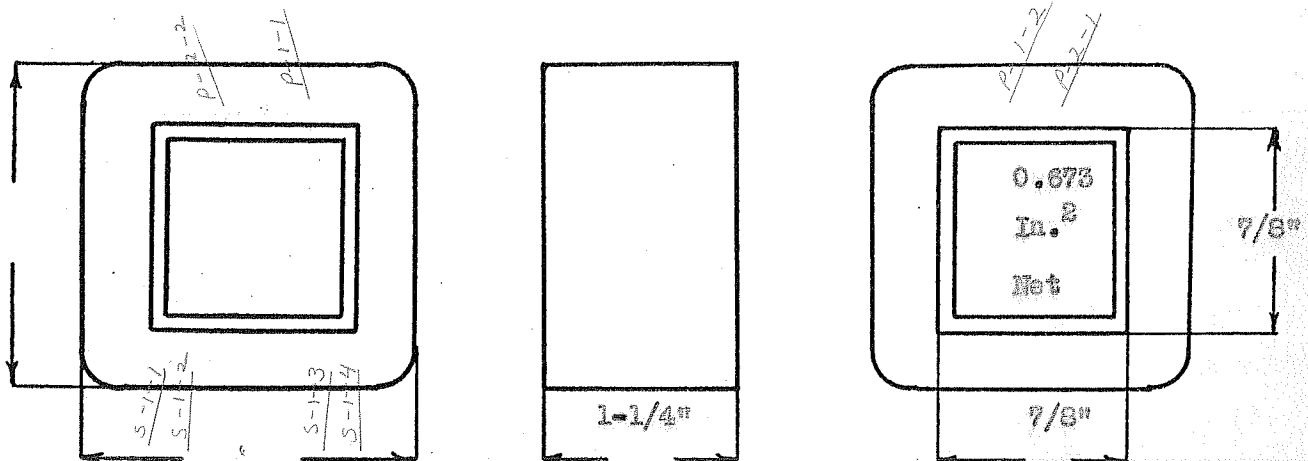
CORE 7/8" x 7/8" E & IGA. 29 GRADE D - Annealed STACK 1 x 1

MOUNTING "AA" - Leads

NOTE: ALL MULTIPLE WOUND.

Cu = 1570 @ 10 Ma.
 Wire Net = 0.673" (0.269")
 T.F.V. = 58.0
 Fe = 35.2 @ 25 Cycle

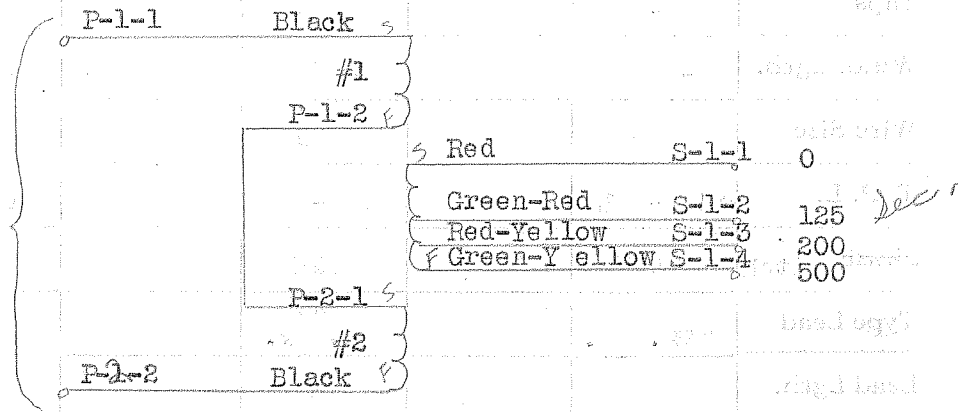
100V on Primary (Assumed)



Re-DESIGNED BY HWS

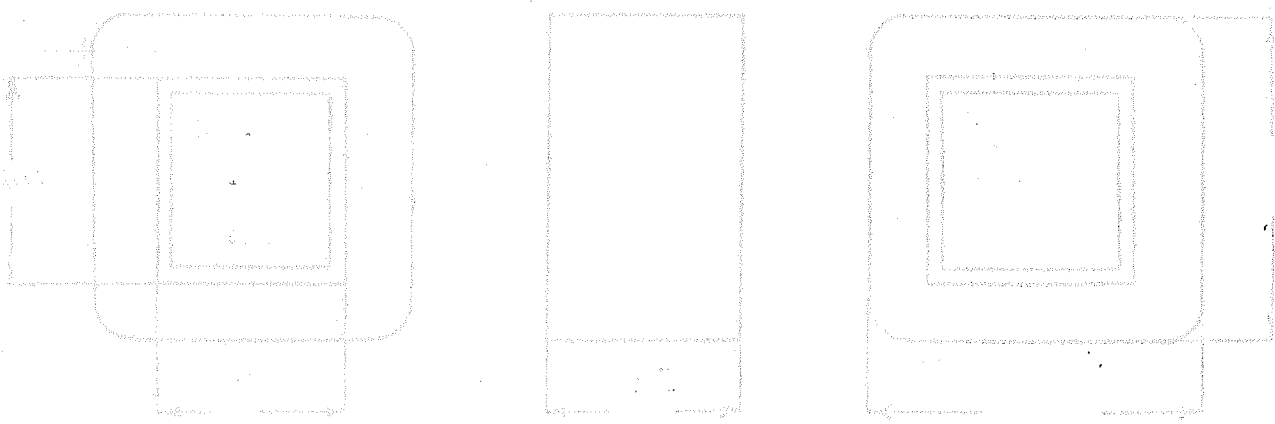
DATE 7-31-41
1-20-42

10,000^w Primary



T	=	3800	-	850	-	539	-	425
T _R	=	8.95	-	2	-	1.27	-	1
Z _R	=	80.2	-	4	-	1.61	-	1
Z	=	10,000	-	500	-	201	-	125

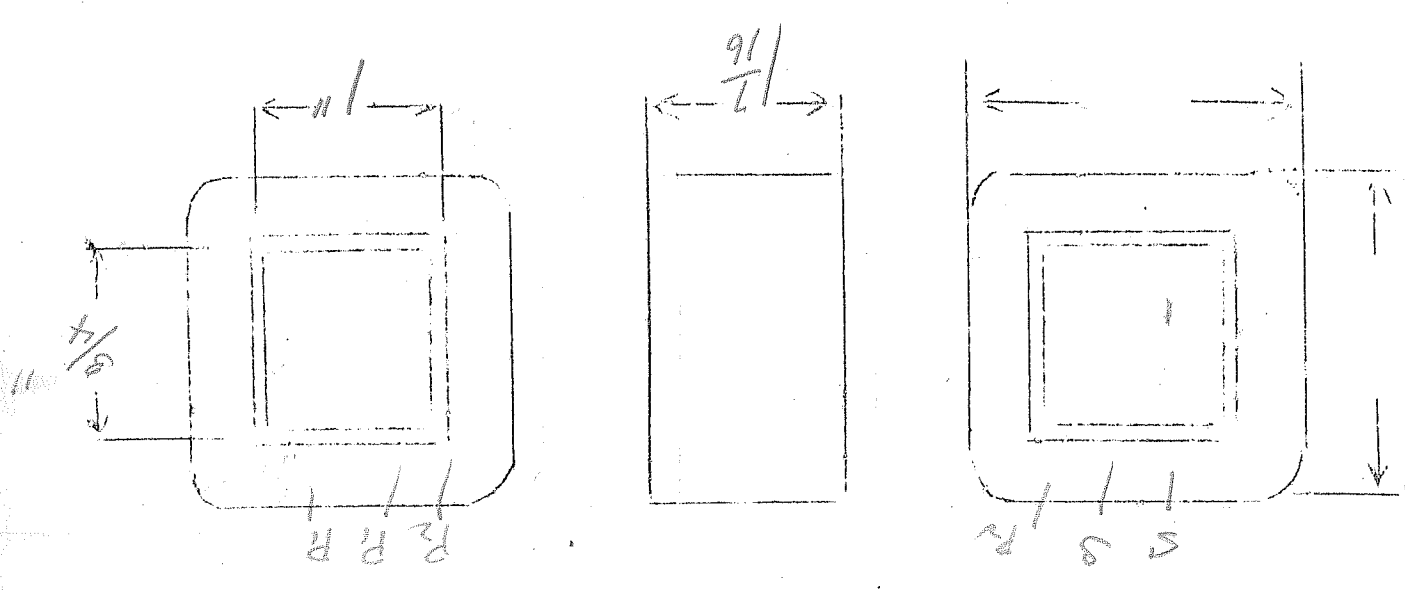
NOTE to Finishers: P-1-2 and P-2-1 are brazed and joined together and buried. No lead soldered to this connection.



TRANSCIVER - INPUT
 20,000 - 100,000
 200 - 100,000

SPEC. NO. 558

Winding	Turns	Taps	Wind. Lgth.	Wire Size	T.P.L.	Kind Term.	Term. Lgth.	Layer Insul.	Wrapper	TUBE	IMPRGNATION	VARNISH	CURE
PRI, SEC	2140	NONE	1.25	#38	290.8	#22 RBR	9" 11"	16#	1005VC	4L007			1 X 3/4 NW - 2+2
PRI	7540	NONE	1.25	#38	290-26	#20 RBR (REP)	9" 11"	30#	1005VC/9L005BA				

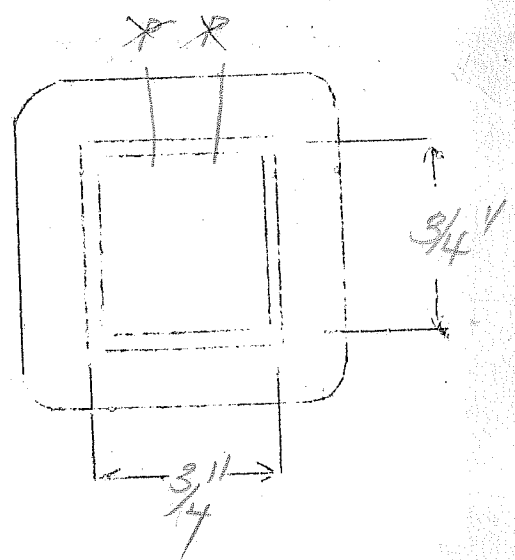
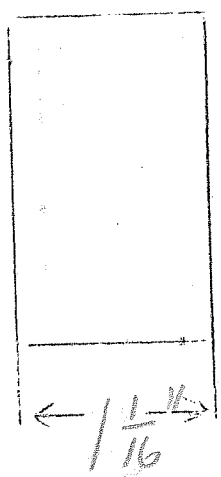
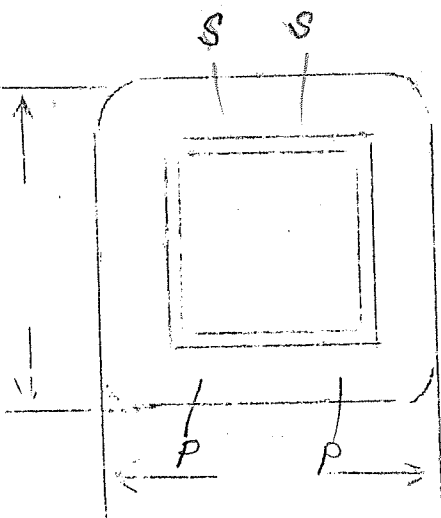


8000 Ω - 2500 Ω

PRI - 15 MA

SPEC. NO. 559

Winding	PRI	SEC				
Turns	4100	2300				
Taps	NONE	NONE				
Wind. Lgth.	7/8	7/8				
Wire Size	#38	#36				
T.P.L.	205-20	144-16				
Kind Term.	SIL BR	SIL BR				
Term. Lgth.	3"	3"				
Layer Insul.	16#	20#				
Wrapper	1L005VC	2L005CA				
TUBE	4L007		IMPREGNATION	VARNISH		
CURE	3/4" 3/4" NW - BUTT STACK					



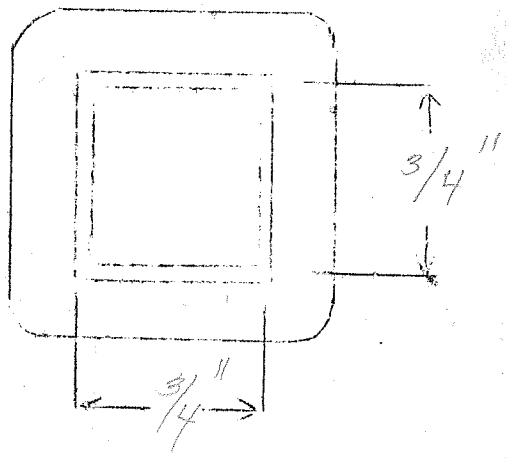
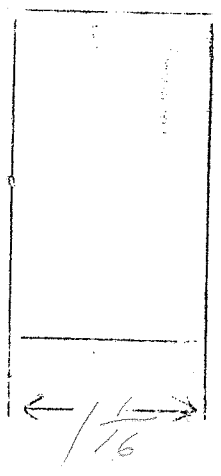
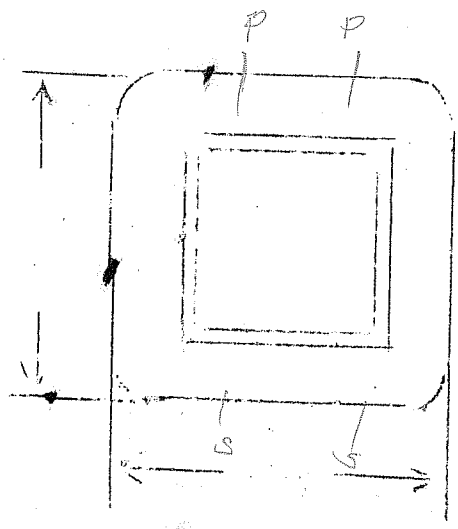
5000 Ω to 25 Ω

PRI - 40 Ma - INTERCOM

5672
728

SPEC. NO. 560

Winding	PRI	SEC				
Turns	5700	123				
Taps	NONE	NONE				
Wind. Lgth.	7/8"	7/8"				
Wire Size	#36E	#24E				
T.P.L.	145	41-3				
Kind Term.	S11 BR	WIRE ONLY				
Term. Lgth.	3"	3"				
Layer Insul.	16#					
Wrapper	1L005 VC	1L005 GA				
TUBE	4L007		IMPREGNATION		VARNISH	
CURE	3/4 x 3/4 audio - STACK WITH .005 GAP.					



500-200-2 to 125,000 2 CT

SPEC. NO.

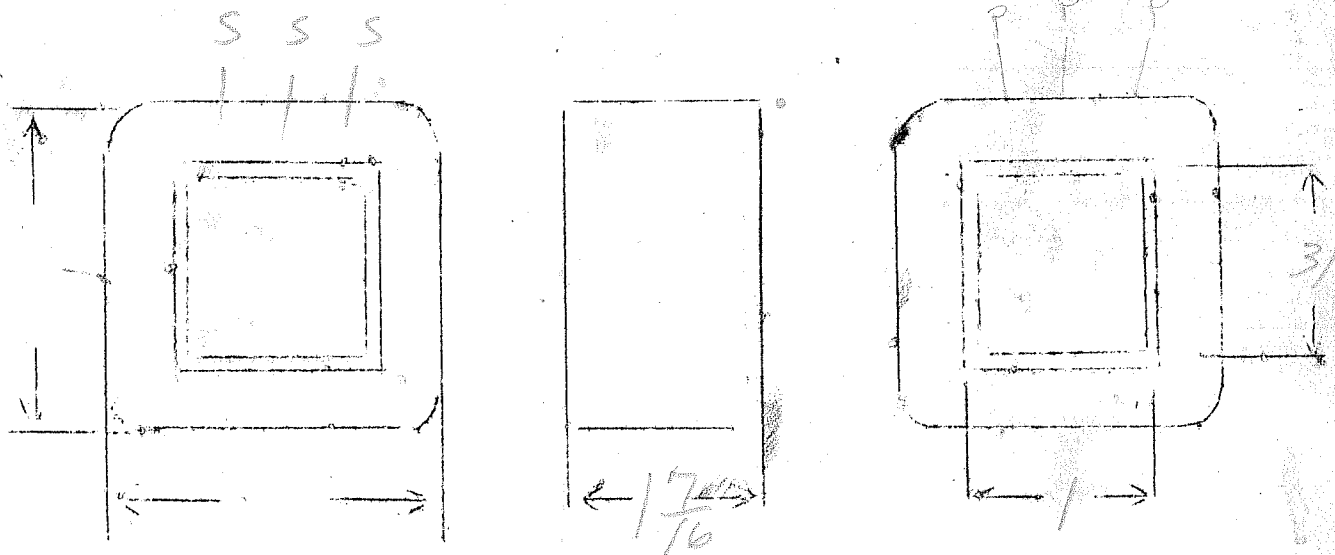
561

Winding	SEC	PRY				
Turns	12000	760				
Taps	6000	480	← This is not CT (2/1/54)			
Wind. Lgth.	1.25	1.25				
Wire Size	#38	#28				
T.P.L.	252-48	76-10				
Kind Term.	#20 BR	#20 BR				
Term. Lgth.	9"	9"				
Layer Insul.	20#	30#				
Wrapper	KL005VC	2L005GA				

TUBE | 4L007 | IMPREGNATION | VARNISH F WAX

CURE | 1X 3/4 296 AUDIO 2X2 B Grade

FOR "AA" mount - finish 3" sil BR



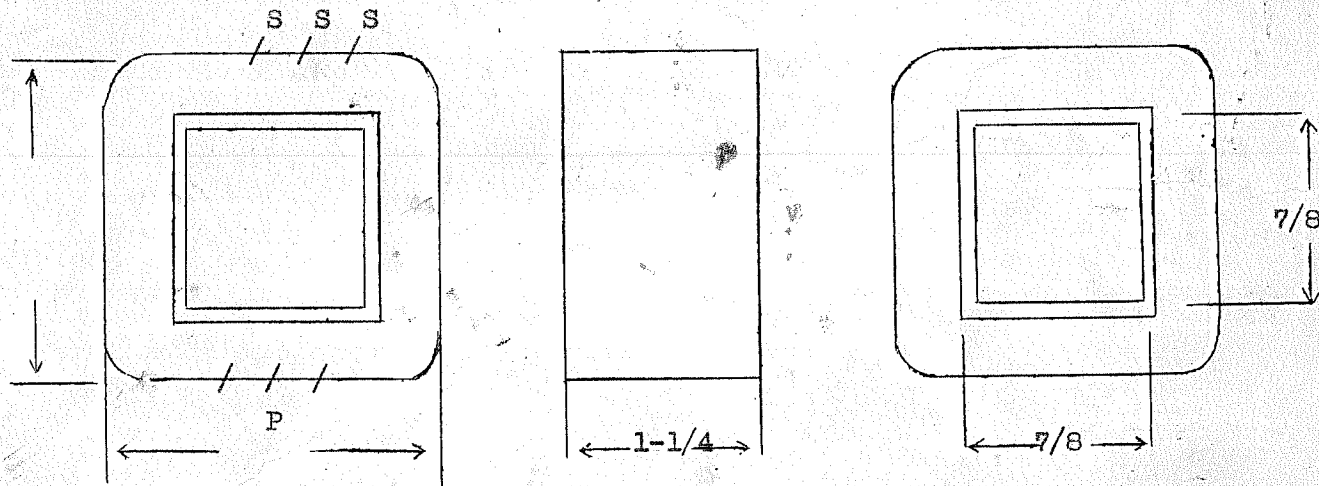
500 or 125 ohm line or double botton mike to
single or push pull grids

OLD

SPEC. NO. S562

Winding	SEC	PRI					
Turns	10,000	630					
Taps	5,000	315					
Wind. Lgth.	1-1/16	1-1/16					
Wire Size	#39	#29					
T.P.L.	250-40	80-8					
Kind Term.	Sil Braid or #20 Par Br						
Term. Lgth.	3" or 9"						
Layer Insul.	12#	30#					
Test Volt.	none						
Wrapper	3L003VP	2L005GA					

TUBE	7L007	IMPREGNATION	WAX
CORE	7/8 x 7/8 - 29 Ga B Grade 2 x 2	PRIMARY V.A.	
MOUNTING	A or F		



Revised-
DESIGNED BY G. W.

DATE 5/5/37

RIBBON MIKE - GRID

SPEC. NO.

563

Winding	SEC	Black PRI				
Turns	12000	38				
Taps	6000	19				
Wind. Lgth.	1.25	1.25				
Wire Size	#38	#16				
T.P.L.	252-48	19-2				
Kind Term.	#20 PBR	WIRE				
Term. Lgth.	9"	9"				
Layer Insul.	20#					
Wrapper	1605 VC	2605 GA				

TUBE

4C007

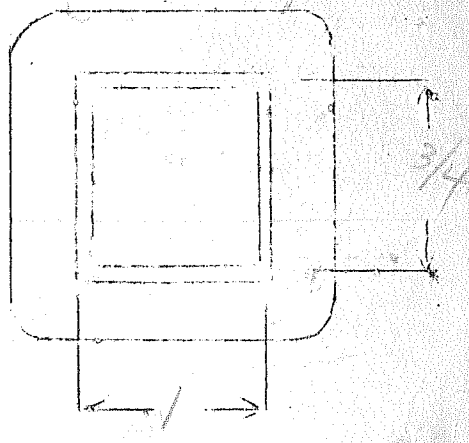
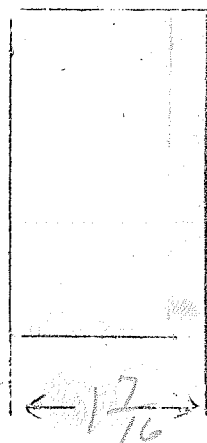
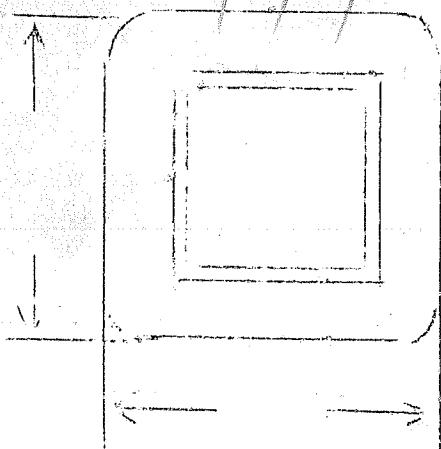
IMPREGNATION

VARNISH + WAX

CURE

1X 3/4 AUDIO 296 2X2 B. Dale

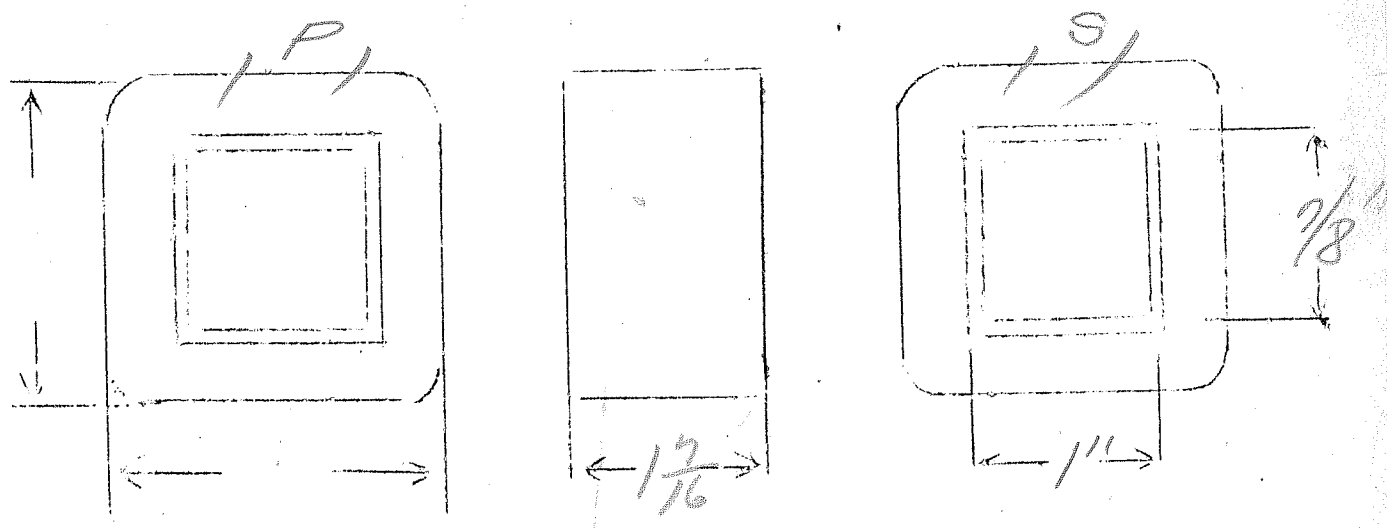
FOR "AA" MOUNT. FINISH 3" SIL BR



Class B input 46,59,896 Class B 46 5989

SPEC. NO. 564

Winding	PRI	SEC				
Turns	4400	3600				
Taps	—	—				
Wind. Lgth.	1.25	1.25				
Wire Size	#36	#36				
T.P.L.	210	210				
Kind Term.	#20 PBR	#20 PBR				
Term. Lgth.	9	9"				
Layer Insul.	20#	20#				
Wrapper	2L007VC	2L0056A				
TUBE	2L007		IMPREGNATION	VARNISH		
CURE	1 x 3/8 NW 29 type iron in stack					



46, 59 Class A to P.P. Class B 46's or 59's.

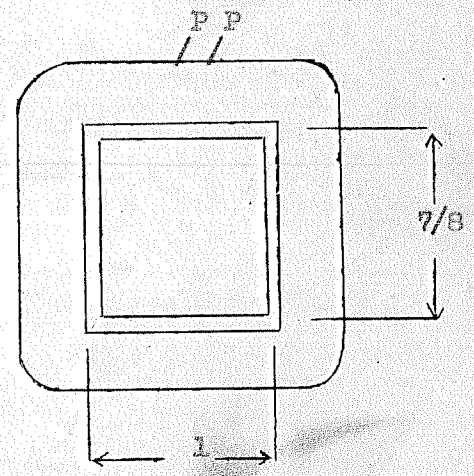
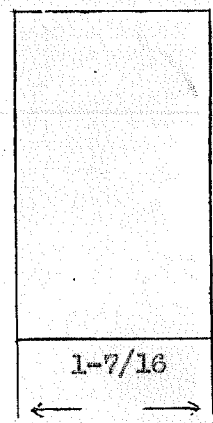
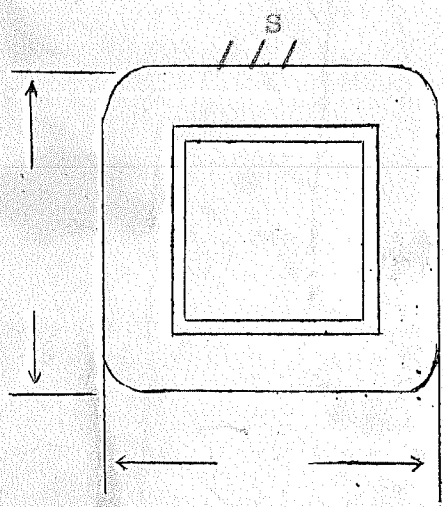
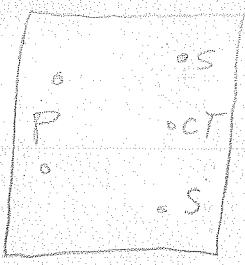
OLD

$P/1/25 = 2.2$

SPEC. NO. 8585

Winding	P	S				
Turns	4000	3620				
Taps	--	1810				
Wind. Lgth.	1.25	1.25				
Wire Size	#36	#33				
T.P.L.	202-20	145-26				
Kind Term.	#20 Par	Braid				
Term. Lgth.	9	9				
Layer Insul.	20#	20#				
Test Volt.						
Wrapper	1L007VC	2L005GA or Kraft				

TUBE	7L007	IMPREGNATION	Varnish
CORE	1 x 7/8	29 Ga. B	Gap. .005"
MOUNTING	A or F	PRIMARY V.A.	



DESIGNED BY G. W.

DATE

Class B input

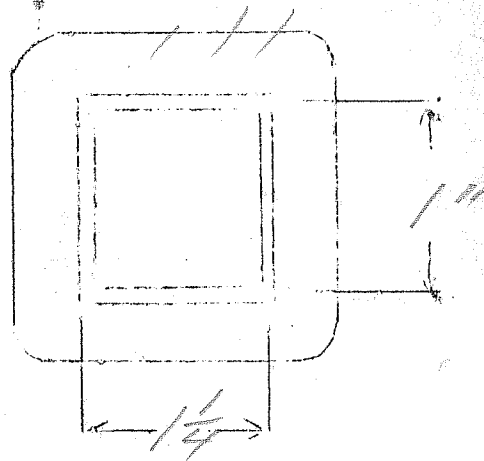
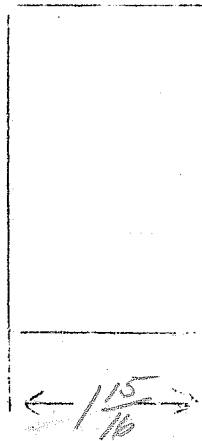
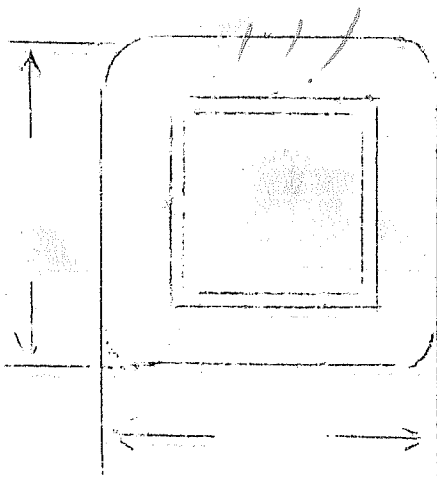
P.P. 45, 59 pt to 46; 59 Class B

or P.P. 2A3pt to 2-84 grids

Black
white Red
Blue

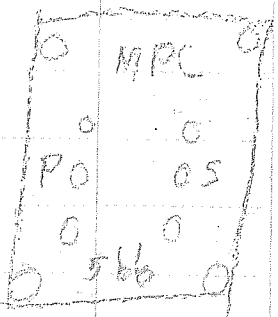
SPEC. NO. 566

Winding	PRI	JFC				
Turns	6400	5800				
Taps	3200	2900				
Wind. Lgth.	1.25	1.75				
Wire Size	33	33				
T.P.L.	200-32	200-29				
Kind Term.	#20 PBR	#20 PBR				
Term. Lgth.	9"	9"				
Layer Insul.	30#	30#				
Wrapper	2L007VC	2L005GA				
TUBE	7L007		IMPREGNATION	VARNISH		
CURE	1 1/4 X 1	(2x2 stack)	296B			

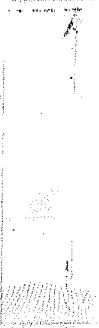
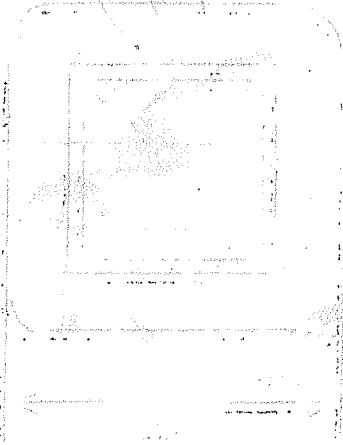
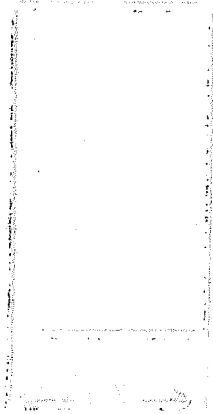
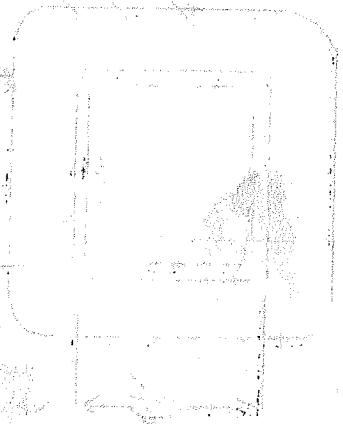


AA

SP. NO.



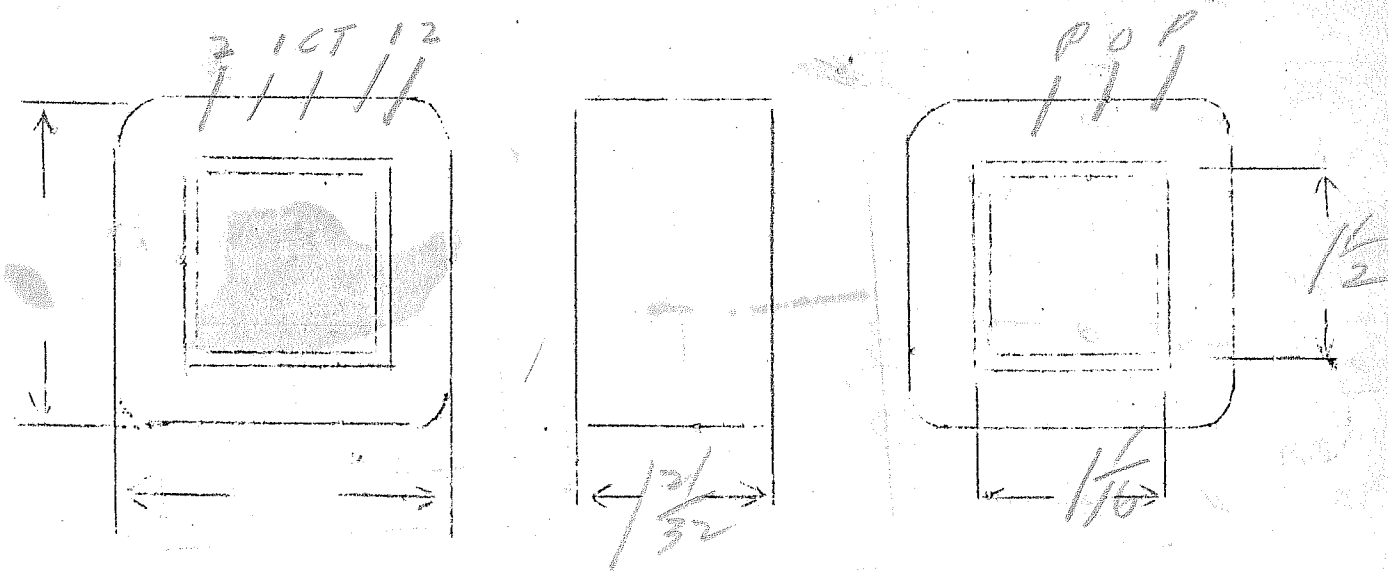
								Winding
								Form
								Case
								Wind. Sp.
								Wire Size
								T. P. L.
								Kind Term.
								Term. Lath.
								Layer (amt)
								Wrapper
								TUBE
								CURE



PP2A3 to 2-RK18, RK31, 210, 800, 830 or 80,
 class B, grids

SPEC. NO. 567

Winding	PRI	SEC				
Turns	4660	4660				
Taps	2330	3495 2330 - 1165				
Wind. Lgth.	1/15					
Wire Size	#34	#34				
T.P.L.	195-24	195-24				
Kind Term.	WB	-3"				
Term. Lgth.	Par B ₂	-9"				
Layer Insul.	40#	40#				
Wrapper	1007VC	2L005GA				
TUBE	7L007		IMPREGNATION		VARNISH	
CURE	1 1/16 X 1 1/2		2X2	2900		



Primary Color Code

Start Black
 C. T. White
 Finish Black

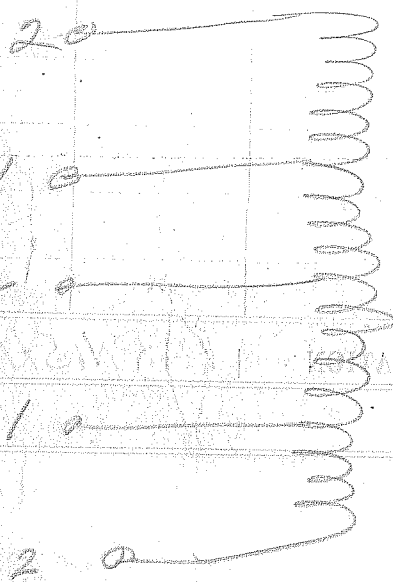
Secondary Color Code

Start Red
 C. T. Blue
 Finish Red

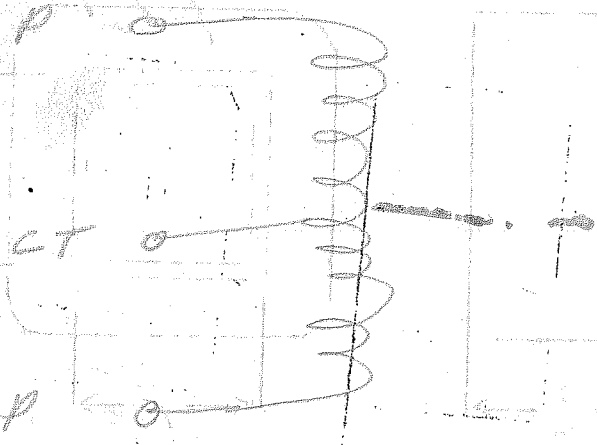
Pri Black - White CT

Sec Red Outsides
 Blue CT
 Yellow Taps

Windings
 Turns
 Taps
 Wind. LxH
 Wire Size
 T.P.T.
 Kind Form
 Form LxH
 Paper LxH
 Wdgmt
 LxH
 Core



P x 1 x 2 x
 P x 0 x
 P x 1 x 2 x



Primary - P.P. 46, 59 plates
 Sec. - 3,500 Ohms - 120 D. C. Ma.
 or 5,000 Ohms

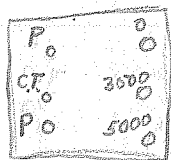
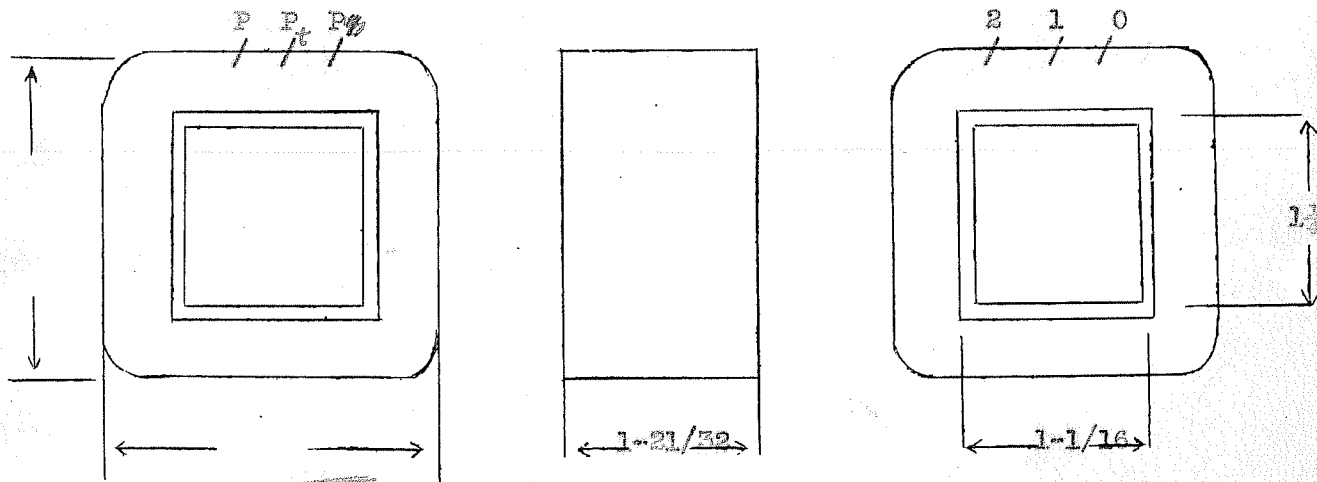
OLD

SPEC. NO. 9568

Winding	PRI	SEC				
Turns	3300	3000				
Taps	1650	2500				
Wind. Lgth.	1-15/32	1-13/32				
Wire Size	#32	#31				
T.P.L.	153-22	128-24				
Kind Term.	#20 P Br	#20 P Br				
Term. Lgth.	9"	9"				
Layer Insul.	30#	30#				
Test Volt.	2500	3500				
Wrapper	2L007VC	1L007VC 3L005GP				

TUBE	7L007	IMPREGNATION	VARNISH
CORE	1-1/16 x 1-1/4	29G "B" .010 Gap	PRIMARY V.A.
MOUNTING	F		

Note- Spiral C.T. into position-
 Anchor all leads



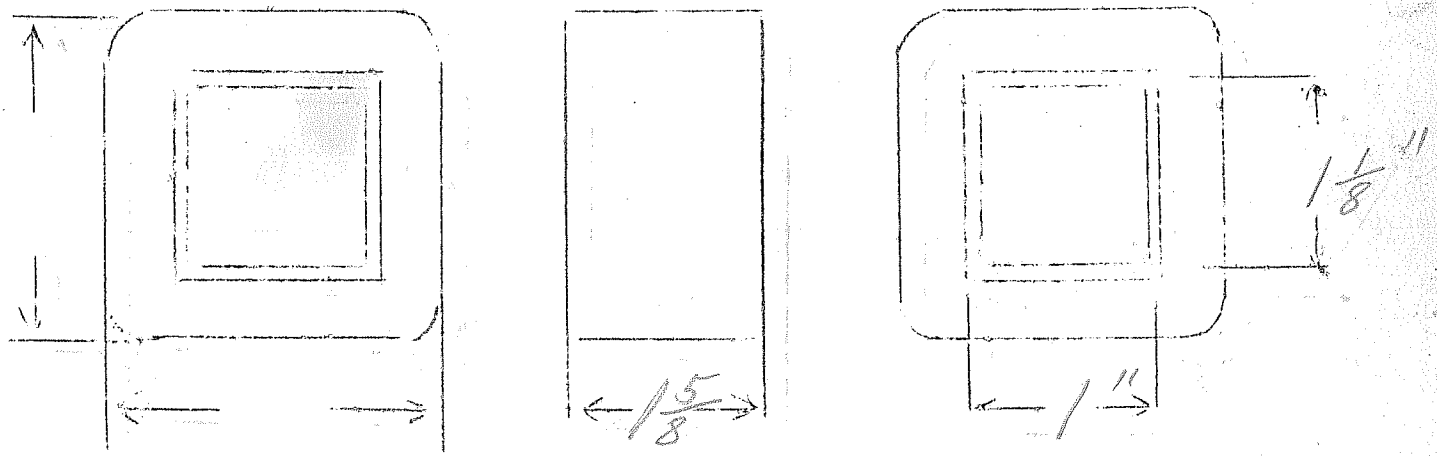
DESIGNED BY G. W.

DATE

Class A output P.P. 2A3 - 200,500 - 2 line #7 - 1/2"

SPEC. NO. 569

	Black Whit top	Red Yellow bottom					
Winding	PRI	SEC					
Turns	6000	1900					
Taps	3000	1200					
Wind. Lgth.	1 7/16	1 7/16					
Wire Size	#34	#28					
T.P.L.	190-32	97-20					
Kind Term.	#20 Paw						
Term. Lgth.	9 1/4						
Layer Insul.	30 #	30 #					
Wrapper	7L007VC	2L0056A					
TUBE	7L007		IMPREGNATION		VARNISH		
CURE	1 x 1/2 M		29 900 "A"				

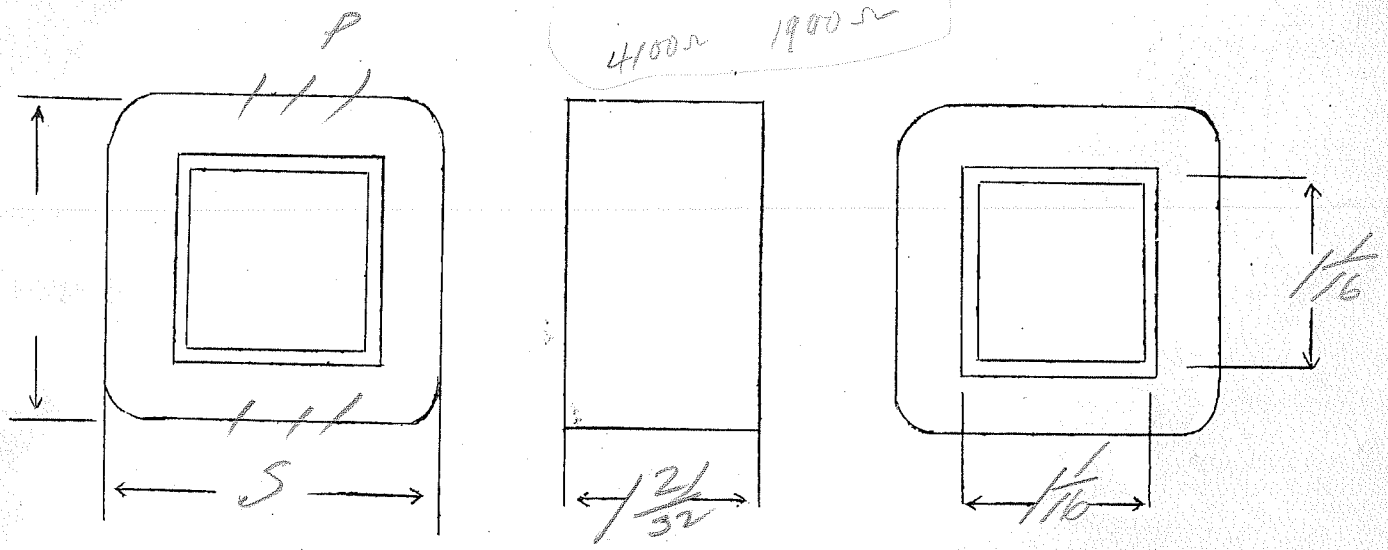
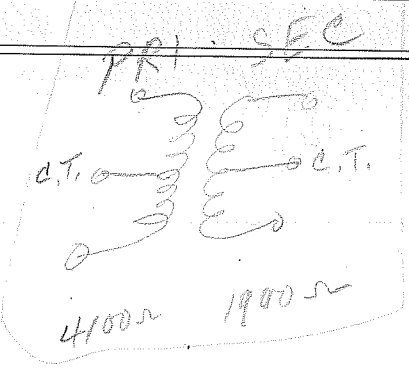


P.P. 46. 59 plates to four P.P. parallel
59 or 46 Class B grids.

OLD

SPEC. NO. S570

Winding	P	S					
Turns	4100	1900					
Taps	2050	950					
Wind. Lgth.	$1\frac{15}{32}$	$1\frac{15}{32}$					
Wire Size	#33	#30					
T.P.L.	172-24	121-16					
Kind Term.	#20 Pn Bv						
Term. Lgth.	9"	9"					
Layer Insul.	20#	30#					
Test Volt.							
Wrapper	11005VP 10L 3P	21005EA					
TUBE	71007		IMPREGNATION		VARNISH		
CORE	29-B Grids - 2x2		PRIMARY V.A.				
MOUNTING	A or F						



DESIGNED BY G. W. DATE 7/11/39

P.P. 45, 59 plates to two Class B grids
of 2-800, 2-830, 2-RK18, 2-210.

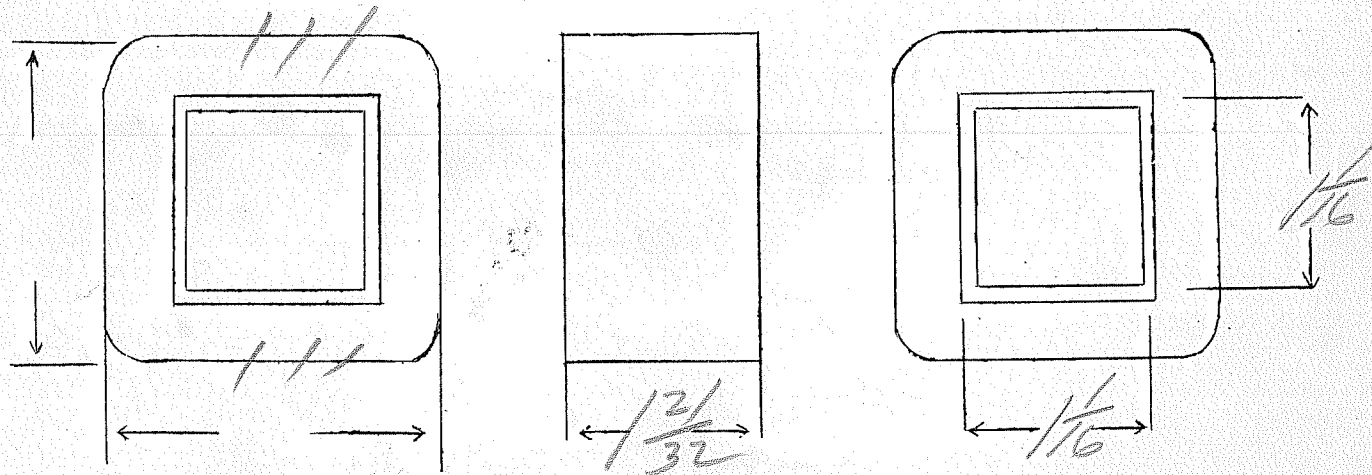
OLD

$P: \frac{1}{2} S = 2.8$

SPEC. NO. S571

Winding	ϕ	S				
Turns	4100	2900				
Taps	2050	1450				
Wind. Lgth.	$\frac{15}{32}$					
Wire Size	#33	#31				
T.P.L.	172-24	136-22				
Kind Term.	#20 Br					
Term. Lgth.	9"	9"				
Layer Insul.	20#	30#				
Test Volt.						
Wrapper	7L005VP 10L M	2L005GA				

TUBE	7L007	IMPREGNATION	VARNISH
CORE	29 Br B-22	PRIMARY V.A.	
MOUNTING	A OR F		



DESIGNED BY G. W. DATE 7/11/39

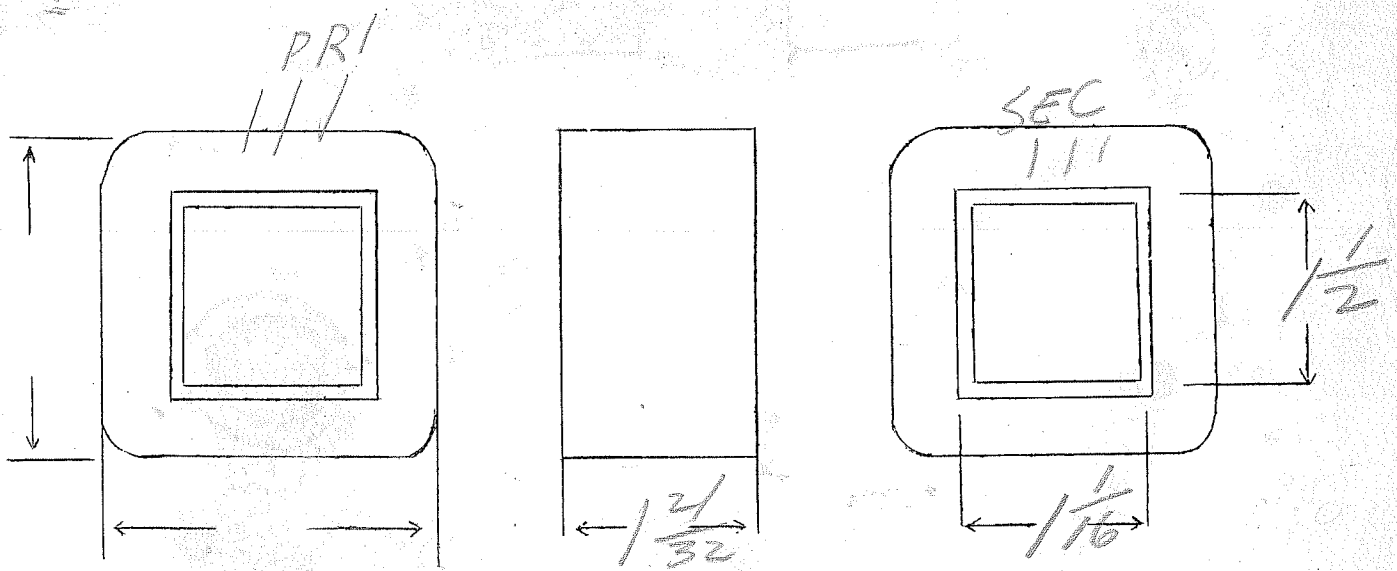
500 or 200 ohms to 2-203A, 2-211D, or 2-242A
Class B

SPEC. NO. 573

Winding	PRI	SEC				
Turns	1500	2650				
Taps	950	1325				
Wind. Lgth.	1 15/32	1 15/32				
Wire Size	#28	#31				
T.P.L.	100-16	135-20				
Kind Term.	#20 or or silver					
Term. Lgth.	3" or 9"					
Layer Insul.	40#	40#				
Test Volt.	2500	2500				
Wrapper	7600V 3L Wr.	210050A				

TUBE	76007	IMPREGNATION	VARNISH
CORE	1/16 x 1/2 - 2x2 29ka	PRIMARY V.A.	
MOUNTING	A or F		

Pri { White - e
 Black - 200
 Yellow - 500

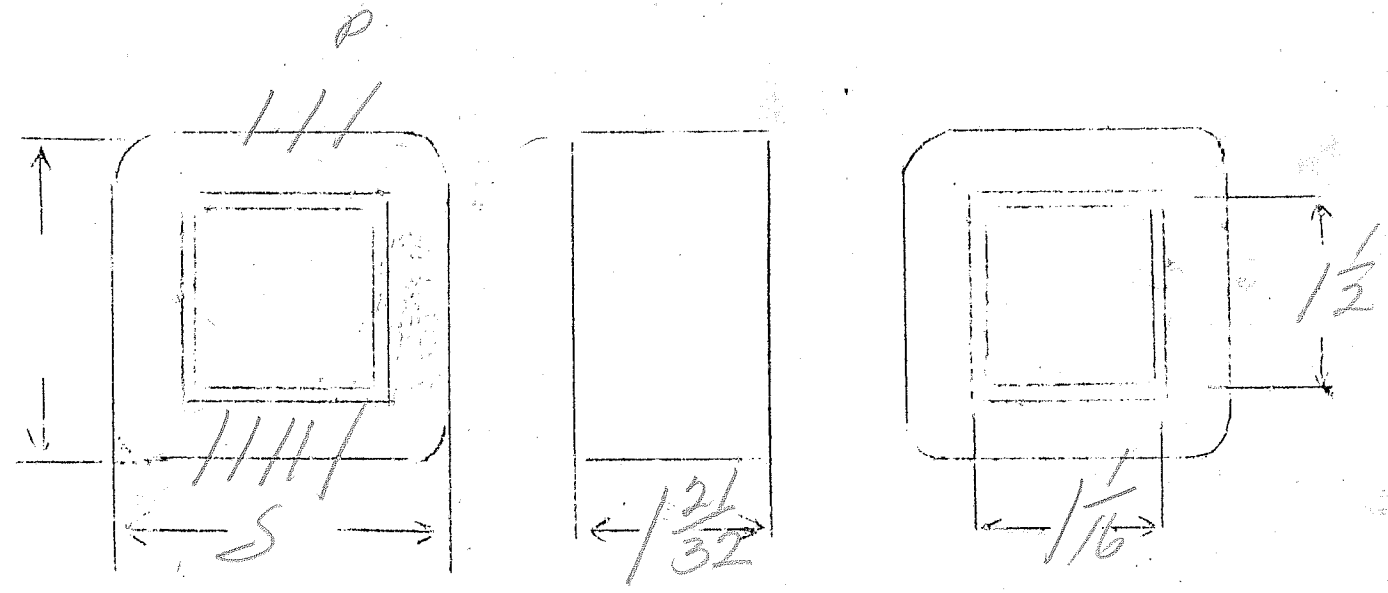


DESIGNED BY *Gweney* DATE 2/15/37

500 or 200 ohm line to 2-210 2-2RK18,
 2-800, 2-801, 2-830 class B
 Grade

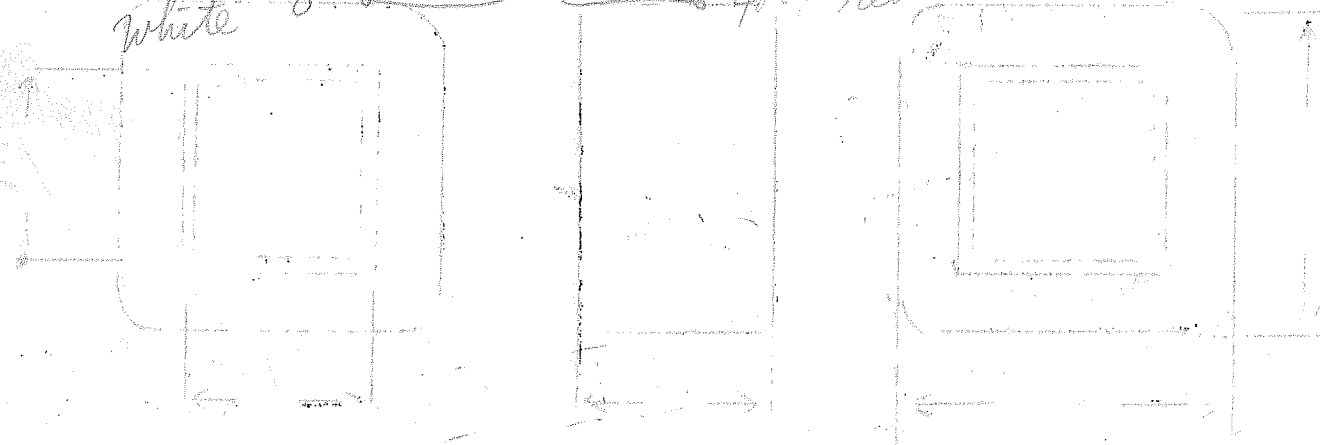
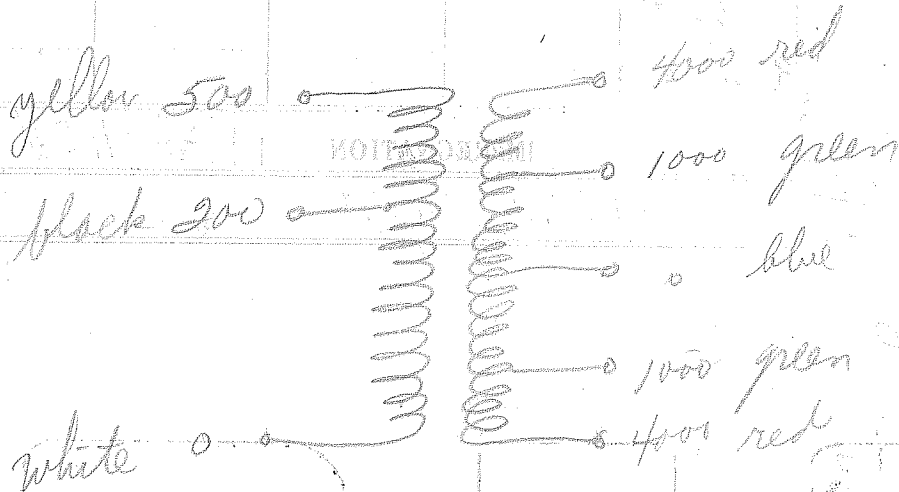
SPEC. NO. 574

Winding	SEC		PRI			
Turns	3600		1250			
Taps	2700 1800 - 900		800			
Wind. Lgth.	$\frac{115}{32}$		$\frac{115}{32}$			
Wire Size	#32		#27			
T.P.L.	151-24		90-14			
Kind Term.	SilBron	#20 Per Br				
Term. Lgth.	3" or 9"		3" or 9"			
Layer Insul.	30#		40#			
Wrapper	Loop PVC 41-2R		3L005GA			
TUBE	7L007		IMPREGNATION		VARNISH	
CURE	$\frac{1}{16} \times \frac{1}{2}$		2x2 24/20 B			



50 } ind
 29 }
 100.08 }
 58.5 } avn

500	—	22.4
200	—	14.1
1000 (RK18)	—	31.6
4000 (800, 830, 210, 801)	—	63.2



Windings
Turns
Tap
Wind. Tap
Wire size
I.P.T.
Kind Term
Term. Tap
Layer Term
Winding
TURNS
CORE I.

PP. 10000 plates to 500, 200, 125 ohms
 lines for use at low levels

SPEC. NO. 376

Winding	PR1	SEC				
Turns	8500	1230				
Taps	4250	770-015				
Wind. Lgth.	1.25	1.25				
Wire Size	#38	#29				
T.P.L.	252-34	92-14				
Kind Term.	AlBr	AlBr				
Term. Lgth.	3'	3'				
Layer Insul.	20#	40#				
Wrapper	1L007VC	2L005GA				
TUBE	7L007		IMPREGNATION		VARNISH	
CURE	1 X 7/8		2X2 B Gude	29 Ga	2X2	

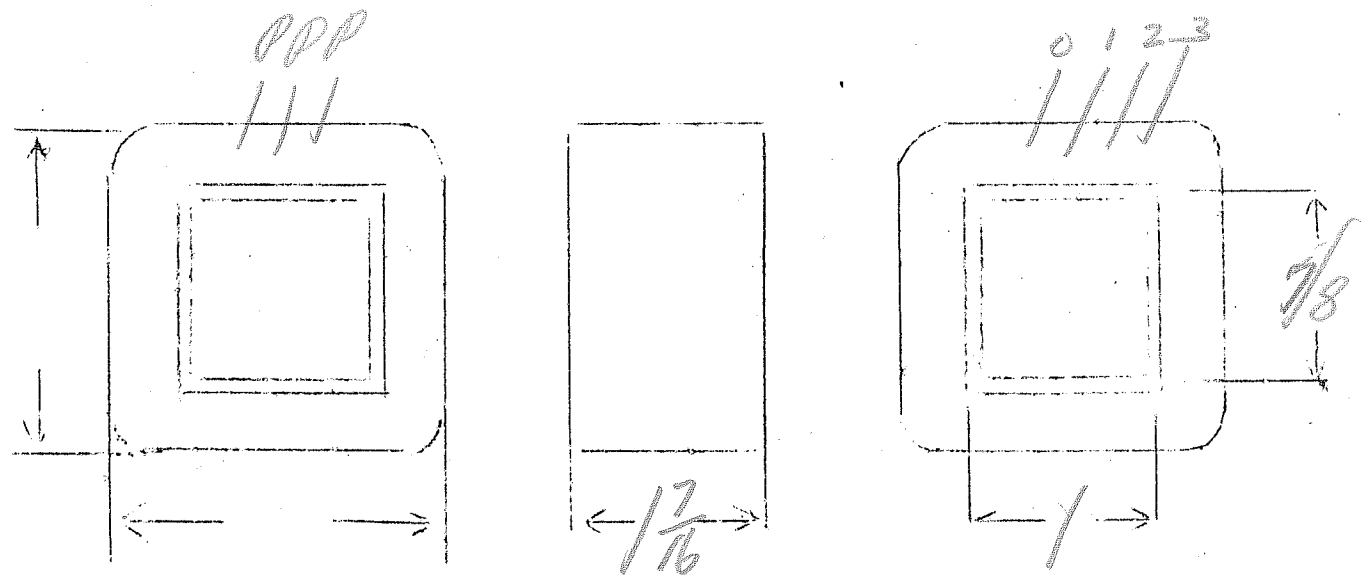
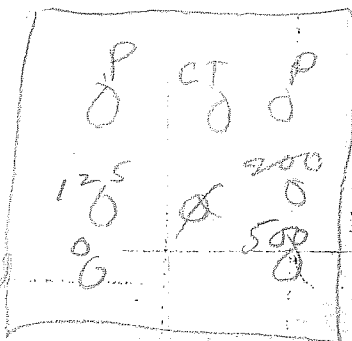
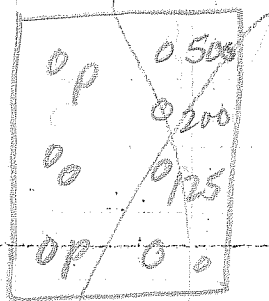
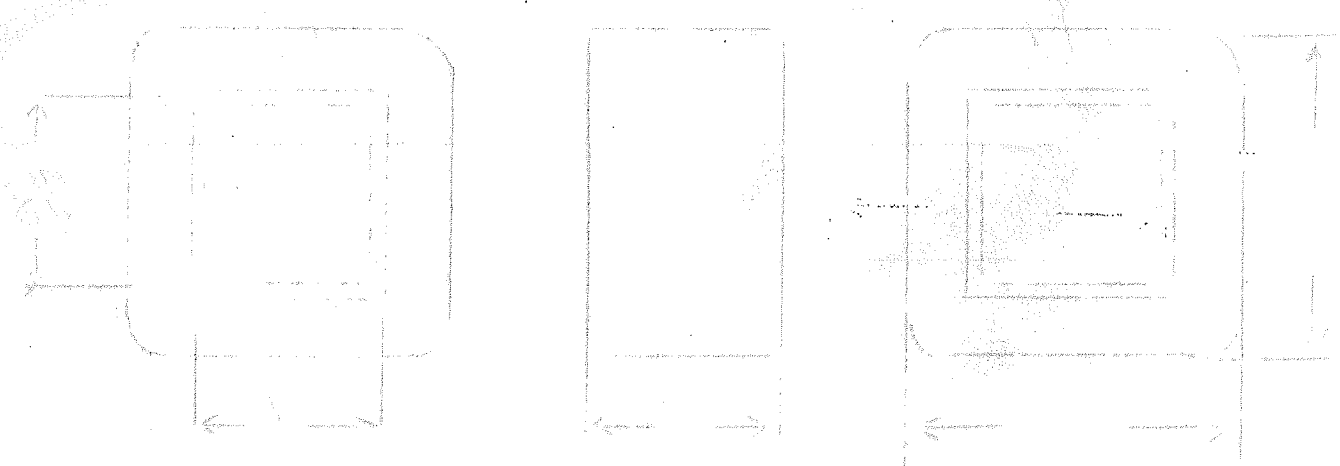


PLATE NO.



IMPRGNATION

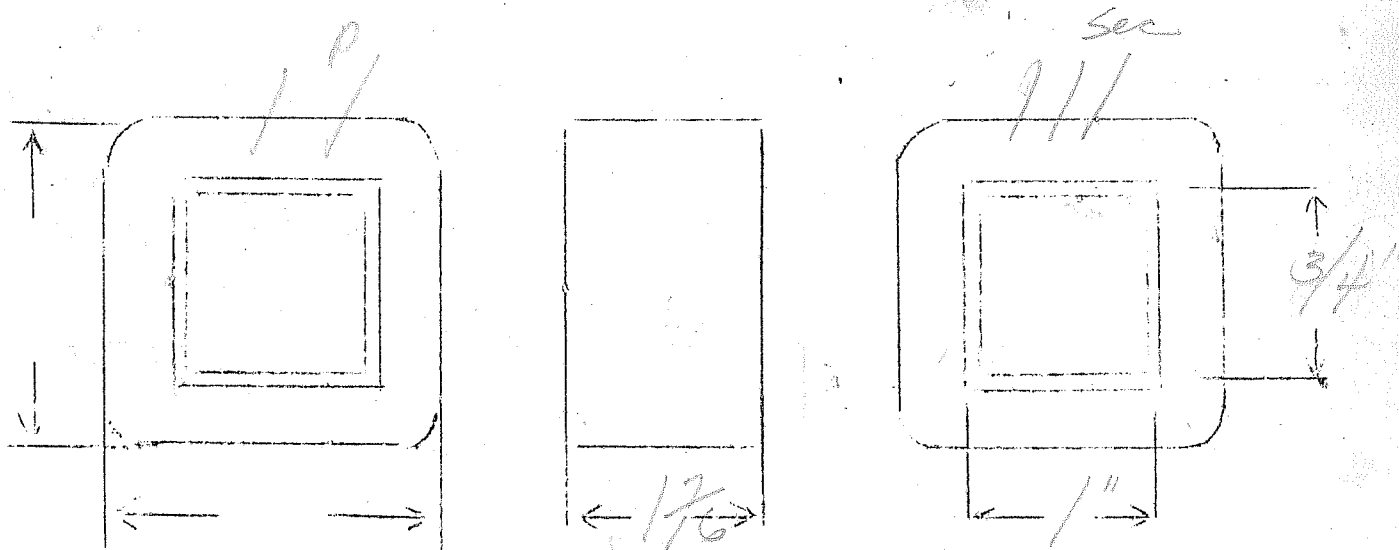
Width
 Thickness
 Type
 Width
 Width
 Length
 Length
 Length
 Length
 Length
 Length
 Length



Crystal mike (100000) Ω to 500 or 200 Ω

SPEC. NO. 577

Winding	PRI	SEC.				
Turns	12000	850				
Taps	—	535				
Wind. Lgth.	1.25	1.25				
Wire Size	#39	#28				
T.P.L.	275-44	83-11				
Kind Term.	silver	Buid				
Term. Lgth.	4"	4"				
Layer Insul.	16#	30#				
Wrapper	12007	210056A				
TUBE	21007		IMPREGNATION	WAX		
CURE	1X3/4		2x2 B Grade 29 cage			



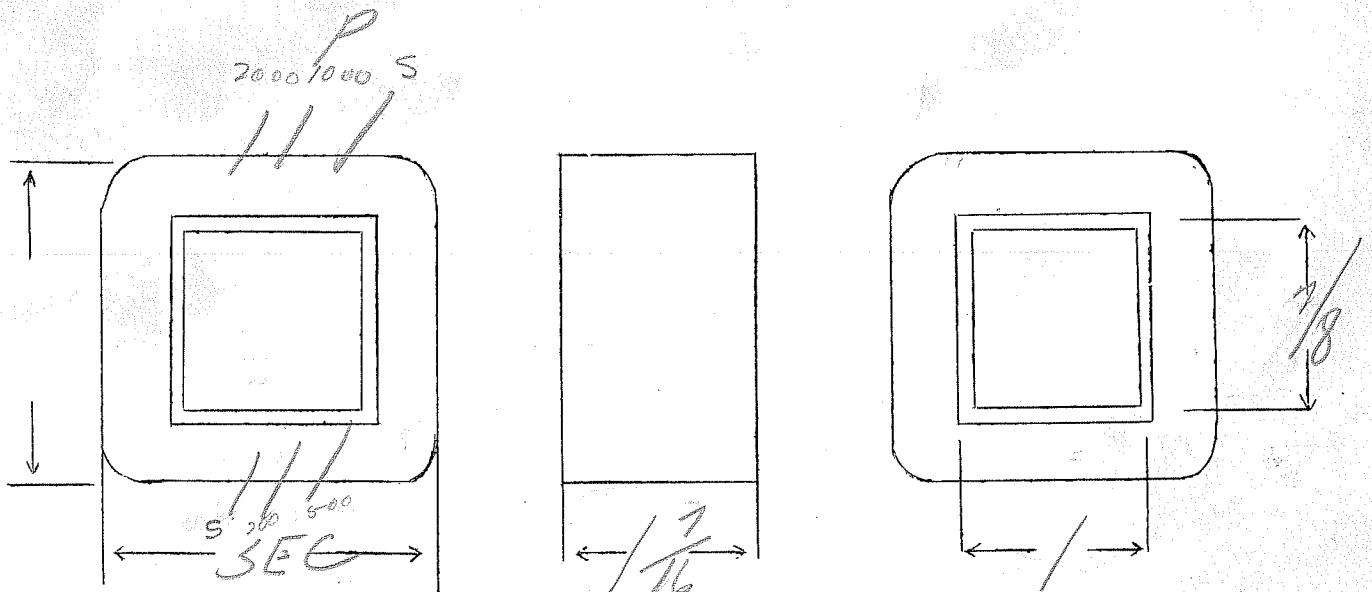
P 0 500
P 0 200
577 0

2000 or 1000 Ω to 500 or 200 Ω line

SPEC. NO.

578

Winding	PRI	SEC				
Turns	1700	850				
Taps	1200	530				
Wind. Lgth.	1 $\frac{1}{16}$	1 $\frac{1}{16}$				
Wire Size	#31	#27				
T.P.L.	117-15	76-12				
Kind Term.	WIRE ONLY					
Term. Lgth.	4"	4"				
Layer Insul.	30#	30#				
Test Volt.						
Wrapper	1007UC	20056-A				
TUBE	7007		IMPREGNATION		VARNISH	
CORE	1 x 7/8	B Bode andis, 2x2		PRIMARY V.A.		
MOUNTING	F					



DESIGNED BY

gw

DATE

3/19/37

PRI: 12000-Ω OR 2-TZ, 20,801

PLATE + SCREEN MADE TRANS

OLD

SEC - TO MODULATE 2-RK20,804 @ 100 watts

5579

SPEC. NO.

Winding	Pri	1-2 Sec	3-4 Sec. Grid Sec				
Turns	2540	1900	380				
Taps	1270						
Wind. Lgth.	1 3/4	1 3/4	1 3/4				
Wire Size	#29	#28	#33				
T.P.L.	128-20	113-18	200-2				
Kind Term.	Wire	Only	Sil Br				
Term. Lgth.	4"	4"	4"				
Layer Insul.	double 30#	double 30#	double 30#				
Test Volt.		7500	5000				
Wrapper	3L007VC 8LGI	3L007VC 8LGI	1L007VC 2L007GA				

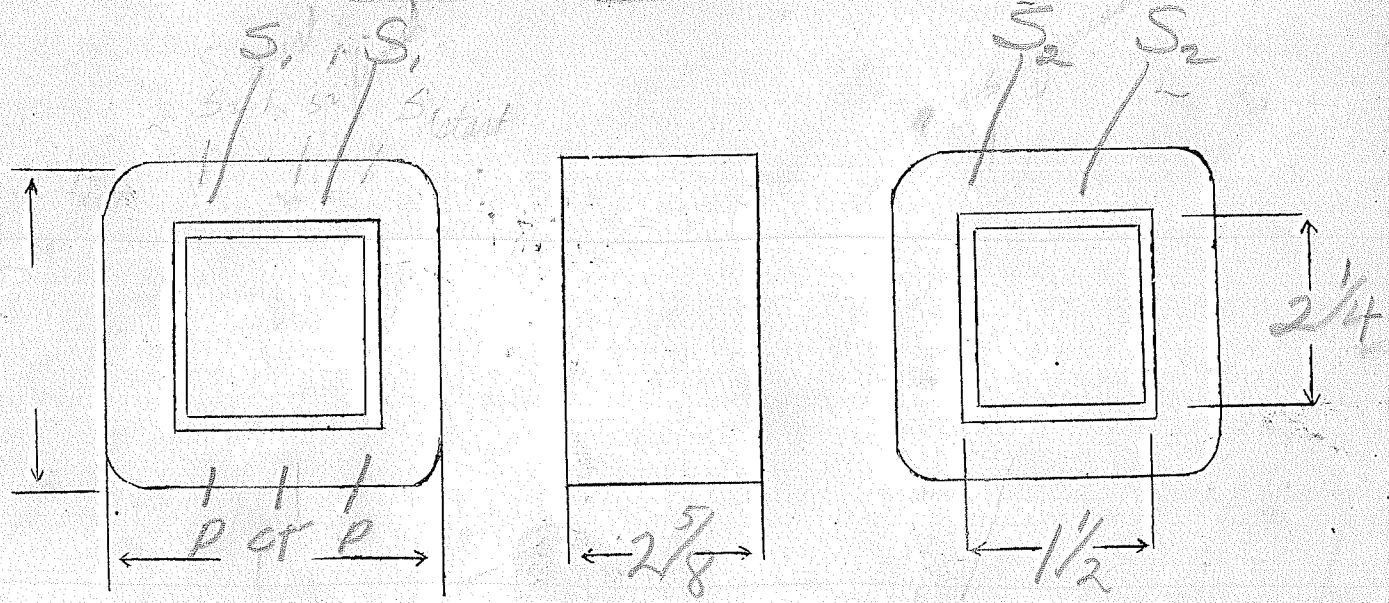
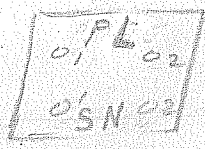
over for Hum Test

TUBE 9L007GR + 1L007VC IMPREGNATION Varnish

CORE 1 1/2 X 2 1/4 - 0.020" gap 24 ga. PRIMARY V.A.

MOUNTING

Spiral Sec 1 into position



DESIGNED BY JCVB

DATE 1-3-39

PRI 12,500 Ω OR 2-800,357, RK18

PLATE & SCREEN MOD TRANS.

SEC - TO MODULATE 2-RK28,803 @ 200 Watts

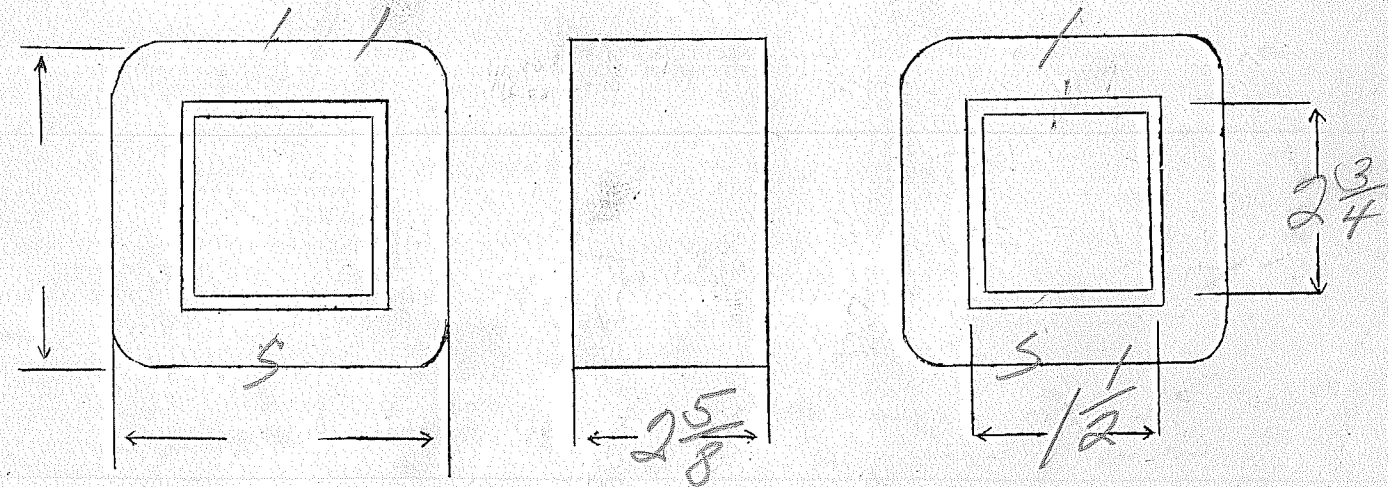
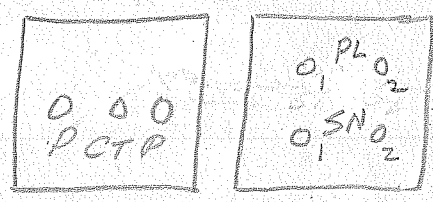
OLD

S_1 - 1330 Ω - 150mA
 S_2 - 2130 Ω - 100mA

SPEC. NO. 5580

Winding	SEC ₂	PRI	SEC ₁			
Turns	1050	2500	2650		(over for testing)	
Taps	—	1250	—			
Wind. Lgth.	1 7/8	1 7/8	1 7/8			
Wire Size	#29	#29	#29			
T.P.L.	140-8	140-18	140-19			
Kind Term.	WIPE	ONLY				
Term. Lgth.	6"	6"	6"			
Layer Insul.	double 30#					
Test Volt.	7500					
Wrapper	3007VC 4L-42	3007VC 4L-42	3007VC 210058A			Double varnish-impregnation

TUBE 10L007+2L007VC IMPREGNATION PRIMARY V.A.
 CORE 24 ga .020" gap
 MOUNTING J



DESIGNED BY *gaw*

DATE 6/21/38

Load test use 1450 ^{as normal test} (432)
19 globes on Sec 1 (3402) ^{over loaded pl.} slight hum

Put 120 V. into
 $\frac{1}{2}$ Pri.

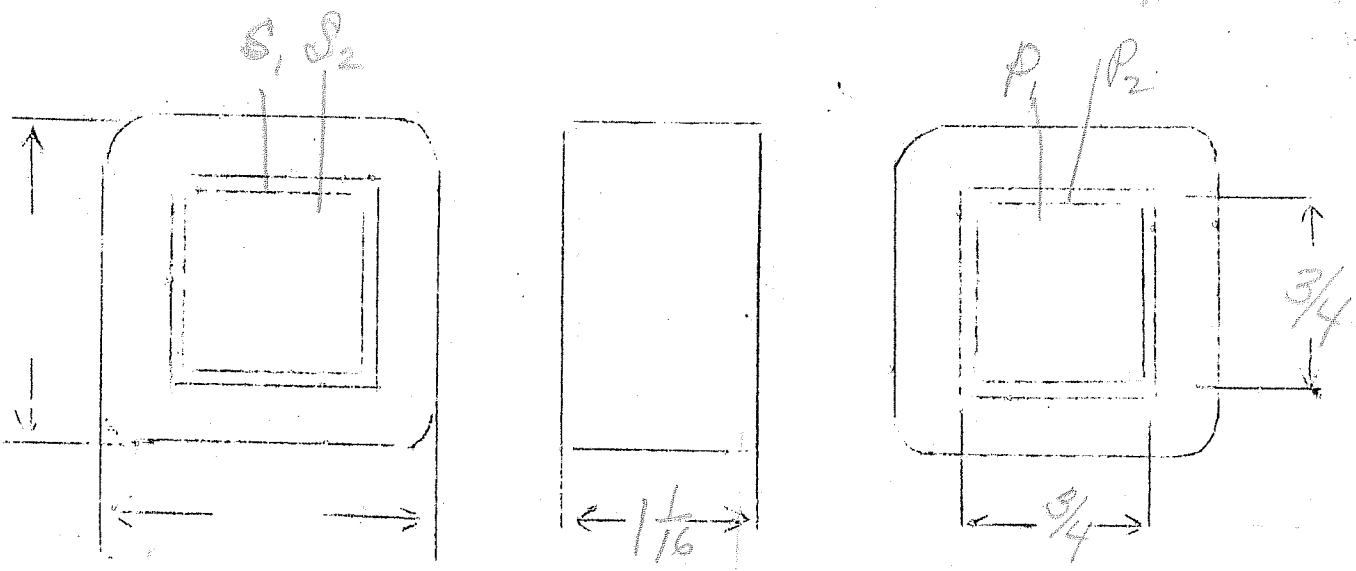
Sec 1 = 254.8 V.

Sec 2 = 100.9 V.

200 Ω line - line.

SPEC. NO. 580

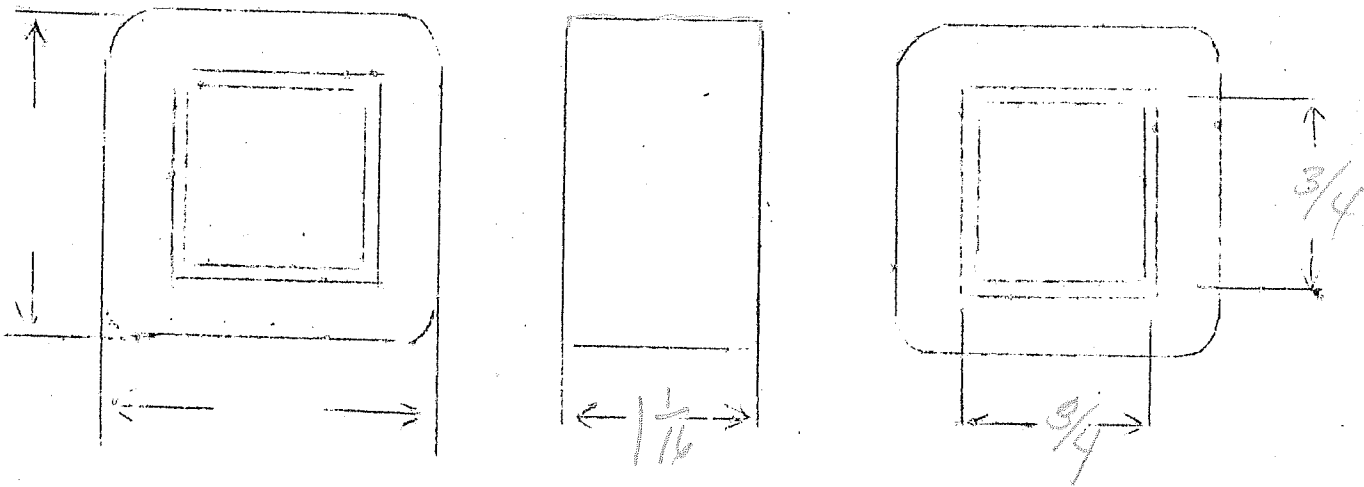
Winding	Pri	Sec				
Turns	480	500				
Taps	(240) NONE	NONE				
Wind. Lgth.	15/16	15/16				
Wire Size	#29	#29				
T.P.L.	70	70				
Kind Term.	S11 BR	S11 BR				
Term. Lgth.	3"	3"				
Layer Insul.	30#	30#				
Wrapper	2L003VP	2L005GA				
TUBE	4L007		IMPREGNATION		Way	
CURE	3/4 x 3/4 Audio					



600 Ω - 100,000 Ω

SPEC. NO. 581

Winding	SEC	PR1				
Turns	8400	650				
Taps	—	—				
Wind. Lgth.	15/16"	15/16				
Wire Size	#41E	#29E				
T.P.L.	290	70				
Kind Term.	SIL BR	SIL BR				
Term. Lgth.	3"	3"				
Layer Insul.	16#	30#				
Wrapper	2L003VP	2L005GA				
TUBE	4L007		IMPREGNATION		WAX	
CURE	3/4 x 3/4 anhyd					



AMERICAN MICROPHONE CO.

10000 Ω - 200 Ω

SPEC. NO.

588

Winding	PRI	SEC				
Turns	4100	590				
Taps						
Wind. Lgth.	.75	.75				
Wire Size	#40E	#30E				
T.P.L.	195	66				
Kind Term.	P.BRAID	P.BRAID				
Term. Lgth.	7"	7"				
Layer Insul.	12#61	16#61				
Wrapper	1L003VP	2L005BA				

TUBE

4L007

IMPREGNATION

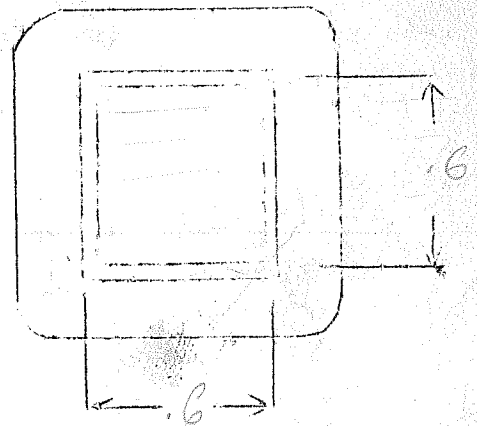
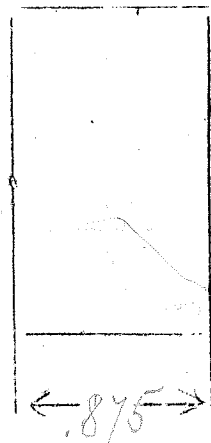
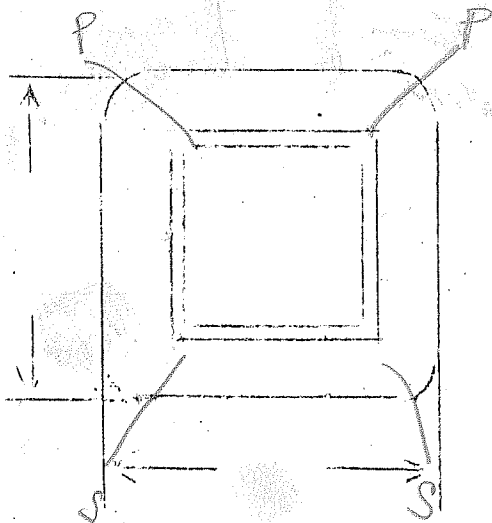
WAX

CURE

.6 x .6 NW - WITH U BAND

2 x 2

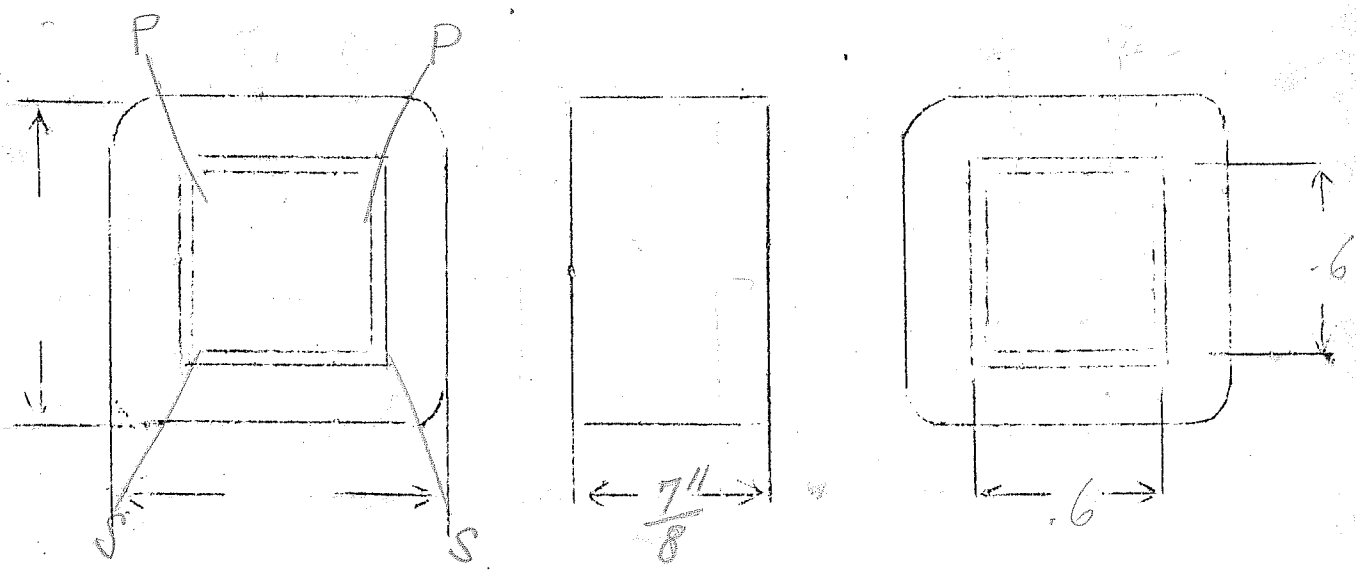
Very light.



CONDENSER MIKE

SPEC. NO. 583

Winding	SEC	PRI				
Turns	640	8				
Taps	NONE	NONE				
Wind. Lgth.	3/4"	3/4"				
Wire Size	#34	#14				
T.P.L.						
Kind Term.	Sil. Br	WIRE ONLY				
Term. Lgth.	3"	3"				
Layer Insul.	16 #00					
Wrapper	210050A	210050A				
TUBE	HL007		IMPREGNATION		WAX	
CURE	.6 X .6 NW - IRON ONLY - NO BAND					



1 117.5
 5 C.T. .075 A.
 V. = 2 A.
 3 V. = 1.85 A.

3.1

Emerson
 8 DT - 584 A
 8 DT - 584

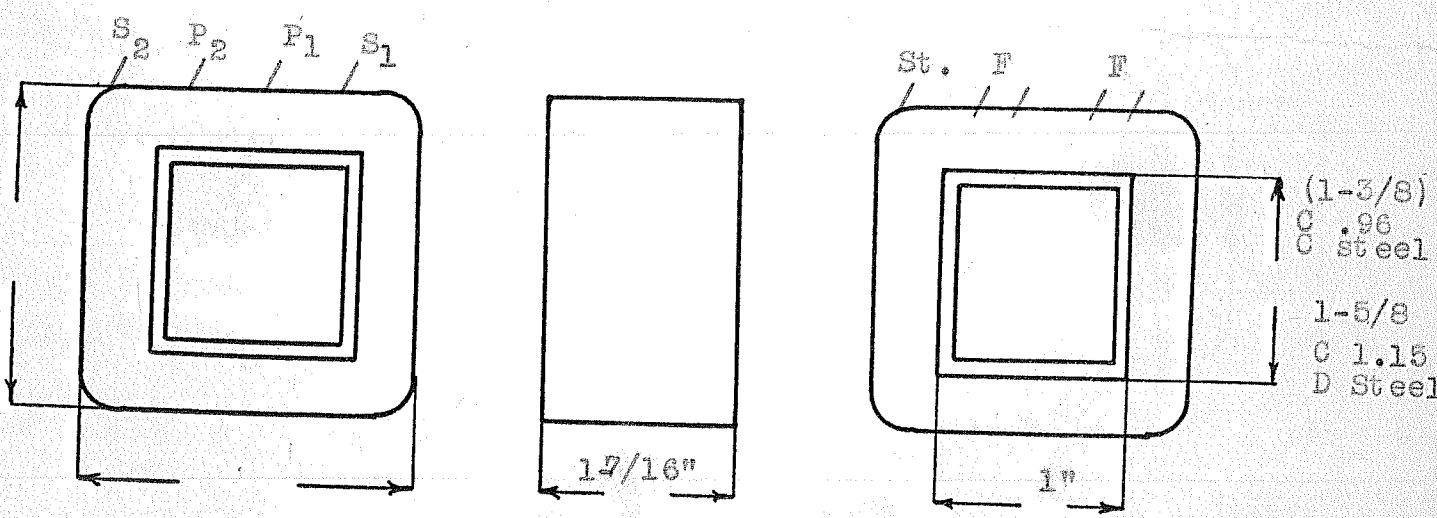
SPEC. NO. _____

Winding	SEC	SHIELD	PRI	FIL	FIL		
Turns	2000	1	364	18	22		
Taps	1000	-	-				
Wind. Lgth.	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4		
Wire Size	#33	.002 CU	#23	#21	#21		
T. P. L.	143-14	1	46-8	1L	1L		
Finish							
Type Lead	see drawing	SB	See Dwg.	See Dwg.	See Dwg.	{ 8 DT - 584) { 8 DT - 584) { 8 DT - 584)	
Lead Lgth.	"		"	"	"		
Layer Insul.	20# G		50# C				
Test Volt.							
Wrapper	1L.003VC 3L.50#G	3L.50#G	3L.00J GK	3L.005" GK	2L.005 GA		

TUBE 6L.007" GK IMPREGNATION VARNISH

CORE 1 x GA. 24/26 GRADE d 1.15/c .96 STACK 2 x 2

MOUNTING

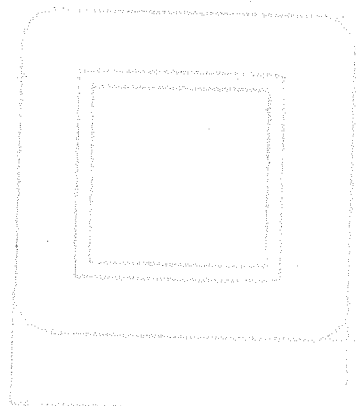
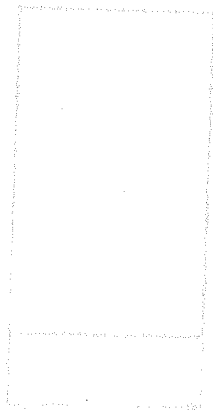
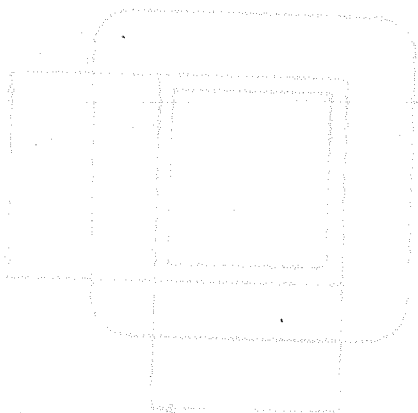


DESIGNED BY DLJ

DATE 6/26/40

I am returning a design which someone in LA made up. This design is impossible in that laminations could not be stacked into the coil. If this is an example of how the newly prepared charts work out I think it would be a good idea for me to examine these charts -

Weaver



200 ohm (single button mike) to grid

see # 1490

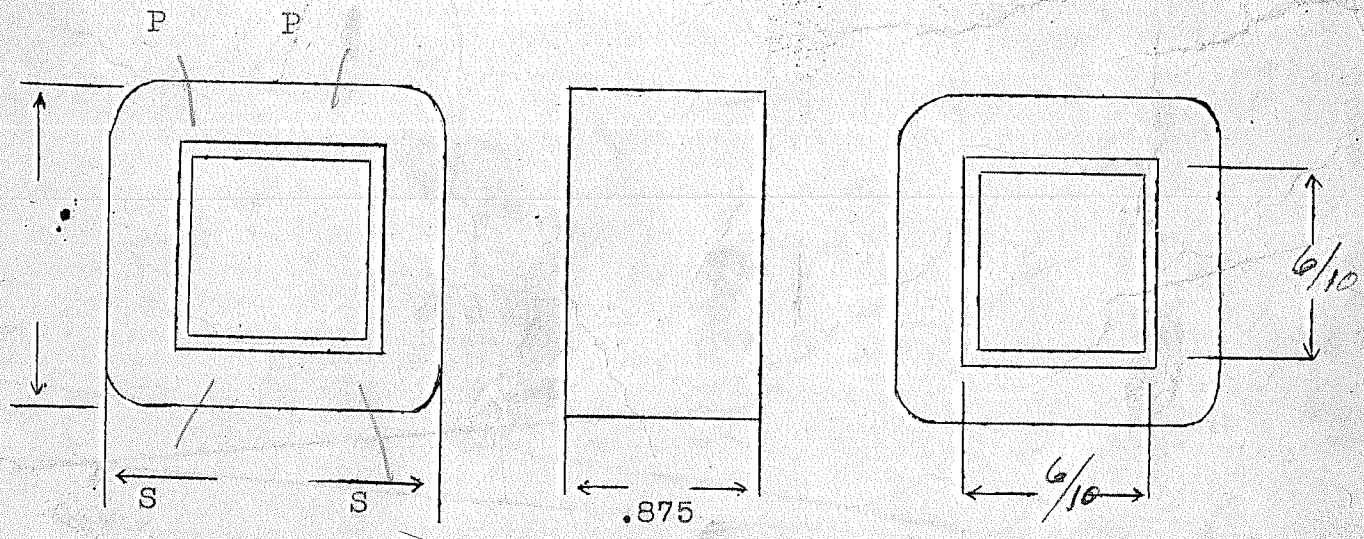
OLD

SPEC. NO. D584

Winding	SEC	PRI					
Turns	70 7900	355					
Taps	—	—					
Wind. Lgth.	.75	.75					
Wire Size	#40E	#34					
T.P.L.	190-42	90-4 100					
Kind Term.	Sil Br	Sil Br					
Term. Lgth.	3"	3"					
Layer Insul.	12#	16#					
Test Volt.							
Wrapper	1L003VP	2L005GA K					

TUBE	4L007	IMPREGNATION	WAX
CORE	.6 x .6	29-B-2x2	PRIMARY V.A.
MOUNTING	D		

Wire Net = 219C



DESIGNED BY G.W.

DATE

Cathode Modulation Transf.

4²⁵ list
6 watt

copy

6F6
7000^w Primary

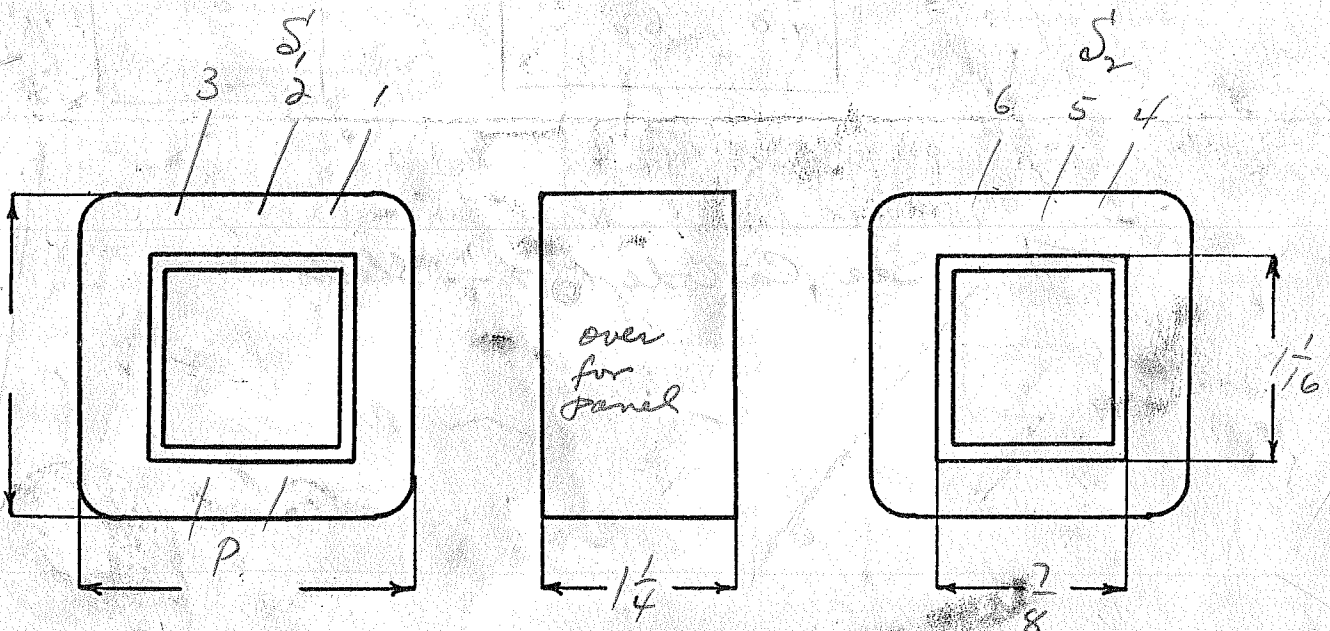
SPEC. NO. S-585

Winding	P	S ₁	S ₂			
Turns	1740 ₁₅	437 ₂₈	720 ₁₈			
Taps		312 ₂₀	240 ₁₆			
Wind. Lgth.	1/16	-	-			
Wire Size	# 36	# 29	# 29			
T. P. L.	174-10	80-6	80-9			
Finish						
Type Lead	Sil. Br.	w. o.	w. o.			
Lead Lgth.						
Layer Insul.	20#	30#	30#			
Test Volt.	2500	-				
Wrapper	1-L 007 VE	1-L 005 VE	1-L 005 VE 2-L 005 GA			

TUBE 6L 007 IMPREGNATION Varnish over lamination

CORE GA. 24 GRADE STACK .005" gap

MOUNTING F



DESIGNED BY G.W.

DATE

9-28-39

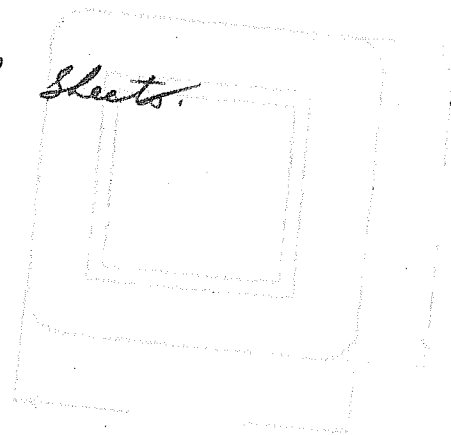
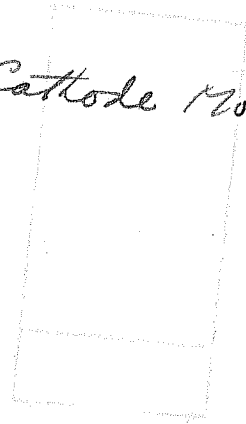
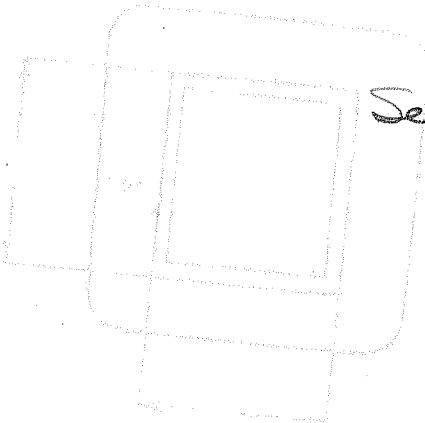
IMPERFECT SHEET

STACK

30	40
20	50
10	60

OP
OP

See Cathode Modⁿ sheets.



2776

2777

2778

Catalog

AMERICAN MICROPHONE CO

CONDENSER MIKE - 200 Ω type

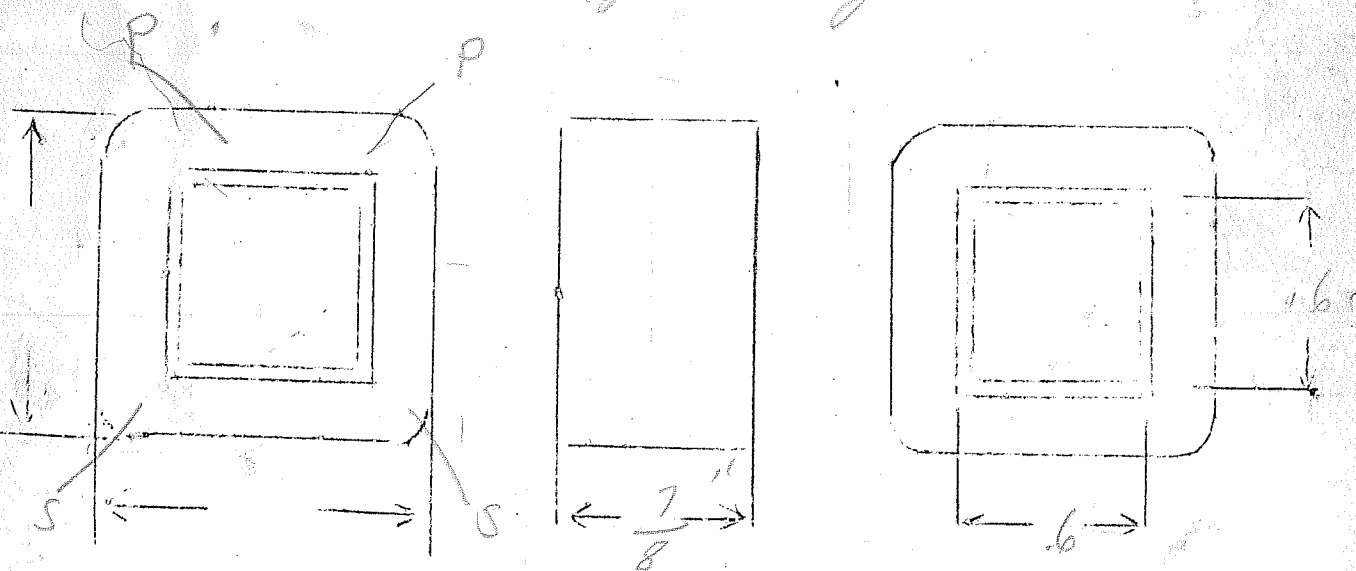
SPEC. NO. 585

Winding	SEC	PRI					
Turns	930	15					
Taps	—	—					
Wind. Lgth.	.75	.75					
Wire Size	#34	#20					
T.P.L.	93-10	15					
Kind Term.	SIL. BR	WIRE ONLY					
Term. Lgth.	3"	3"					
Layer Insul.	16 #60						
Wrapper	2L0056A	2L0056A					

TUBE | 4L007 | IMPREGNATION

CURE | G X G NW ⁹⁴ - IRON ONLY - NO BAND

leave off sleeving



Cathode Mod² Transformer.

* 525 list
20 Watt

copy

PP 6FC, 6V6, or 6A3
(10,000 or 5,000 Ω)

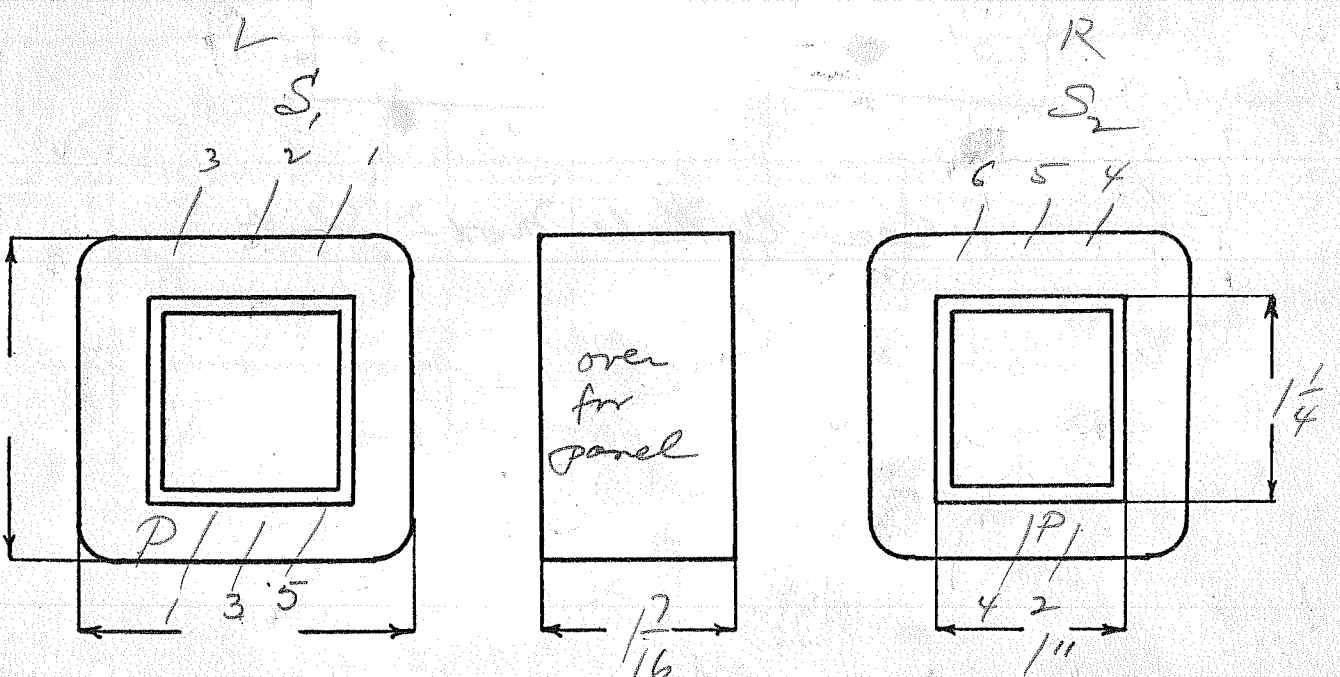
SPEC. NO. S-586

Winding	P		S ₁	S ₂		
Turns	2100		420 ³	700 ⁶		
Taps	175-1050-1925		300 ²	245 ⁵		
Wind. Lgth.	1 $\frac{1}{4}$					
Wire Size	#35		#27	#27		
T. P. L.	175-12		75-6	75-10		
Finish						
Type Lead	Ail Br.		w.o	w.o		Pull S taps twice
Lead Lgth.	6"		6"	6"		
Layer Insul.	20#		30#	30#		
Test Volt.						
Wrapper	1L 007 VC		1L 007 VC	1L 005 VC 2L 005 BA		

TUBE 6L 007 IMPREGNATION varnish over laminations

CORE GA. 24 GRADE D STACK .005" gap

MOUNTING F



DESIGNED BY G.W.

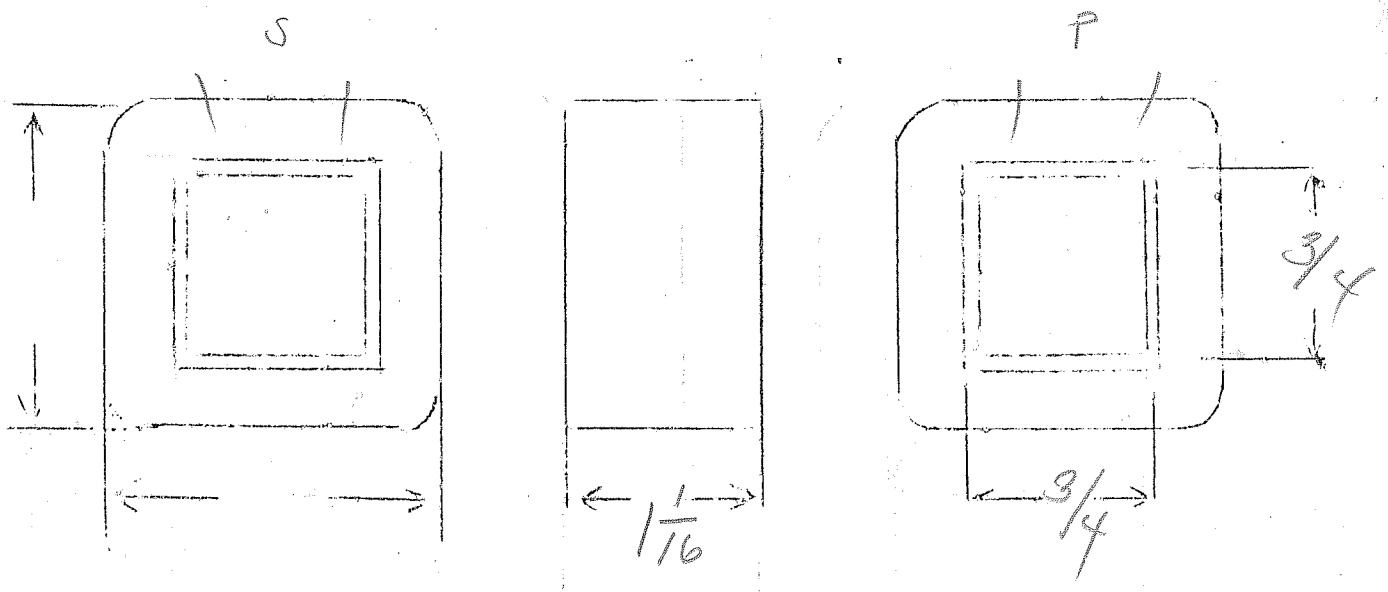
4/1/39

DATE

50 Ω - grid
Am. Micr. Co

SPEC. NO. 586

Winding	SEC	PRI				
Turns	8400	190				
Taps	—	—				
Wind. Lgth.	15/16	15/16				
Wire Size	#41	#29				
T.P.L.	290	70				
Kind Term.	SIL BR	SIL BR				
Term. Lgth.	311	311				
Layer Insul.	16#	30#				
Wrapper	2L003VP	2L0056A				
TUBE	4L007		IMPREGNATION	Wax		
CURE	3/4 x 3/4 audio (949)					



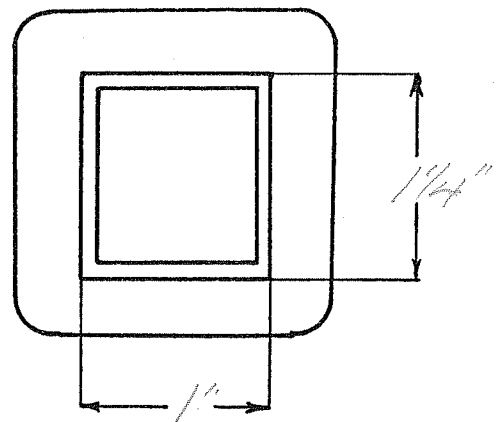
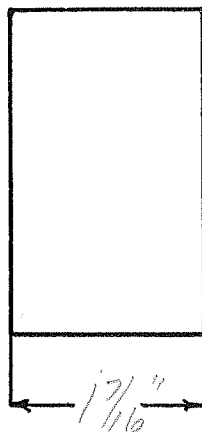
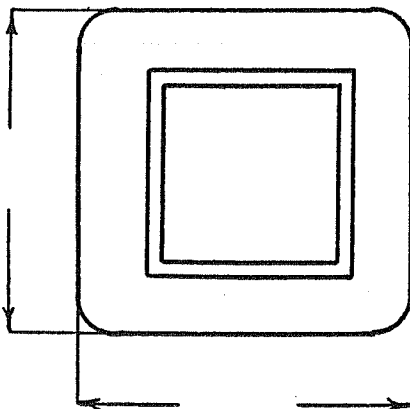
Cathode Modulation

PP6F6, 6V6 or 6A3

(10,000 w or 5000 w)

SPEC. NO. S-586

Winding		Pri		Sec		Sec	
Turns		2100		420		700	
Taps	175-	1050-	1925	300		245	
Wind. Lgth.		1 1/4		1 1/4		1 1/4	
Wire Size		#35		#27		#27	
T. P. L.		175-12		75-6		75-10	
Finish							
Type Lead		Sil. Bk.		W.O.		W.O.	
Lead Lgth.		6"		6"		6"	
Layer Insul.		12 20#4		12 30#4		12 30#4	
Test Volt.							
Wrapper		12 007VC		12 007VC		12-005VC 24-0056A	
TUBE	6K-007"GR			IMPREGNATION		Double Varnish	
CORE	GA.	24	GRADE	D	STACK	.005 gap	
MOUNTING	F						



DESIGNED BY

GW

DATE

11-1-39

Cathode Mod^m Transformer

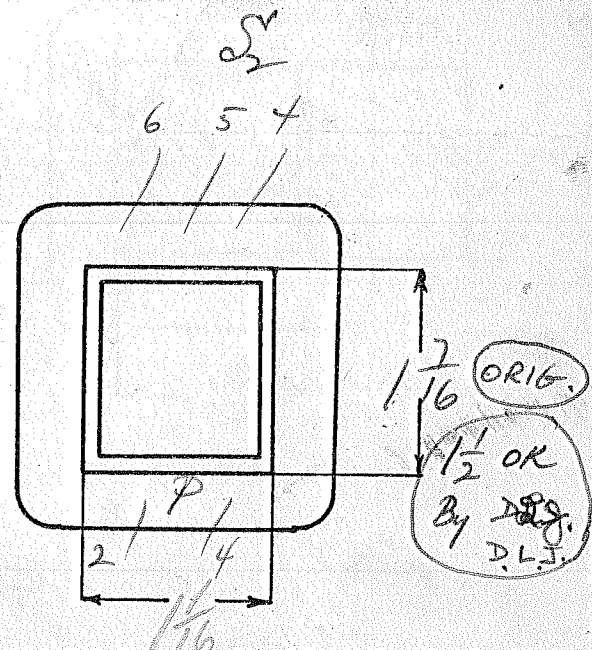
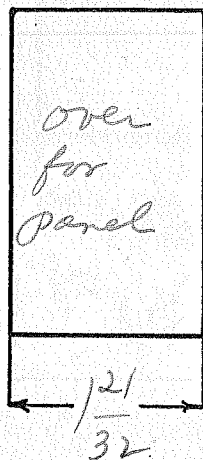
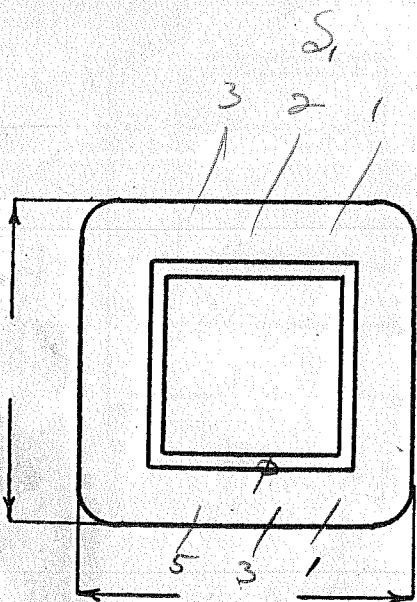
#650 list
50 watt

copy

Ø 666 (5800 or 3800)

SPEC. NO. S-587

Winding	P	S ₁	S ₂		
Turns	1650	460	735		
Taps	150-825-1500	330	268		
Wind. Lgth.	1 7/16				
Wire Size	#32	#25	#25		
T. P. L.	150-12	67-7	67-11		
Finish					
Type Lead	Al Br.	W.V.	W.O		
Lead Lgth.	4"	4"	4"		
Layer Insul.	30#	50#	50#		
Test Volt.					
Wrapper	2L 005VC	1L 007VC	1L 005VC 2L 0056A		
TUBE	6L 007	IMPREGNATION		Varnish over laminations	
CORE	GA. 24	GRADE D	STACK .005 gap		
MOUNTING	F				



DESIGNED BY

Gm 11/1/39

DATE

1-2-39

200 Ω - 50 Ω lines

Am. Micr. Co.

SPEC. NO.

587

Winding	PRI	SEC					
Turns	600	310					
Taps	—	—					
Wind. Lgth.	15/16	15/16					
Wire Size	29	29					
T.P.L.	70	70					
Kind Term.	sil Br	sil Br					
Term. Lgth.	3"	3"					
Layer Insul.	30#	30#					
Wrapper	2L003VPSL005GA						

TUBE

4L007

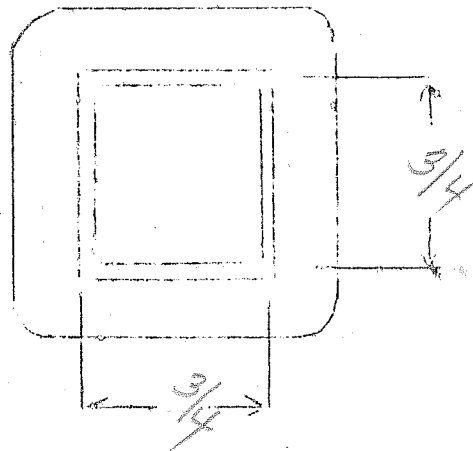
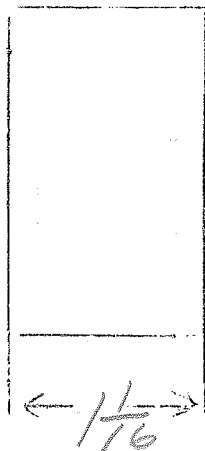
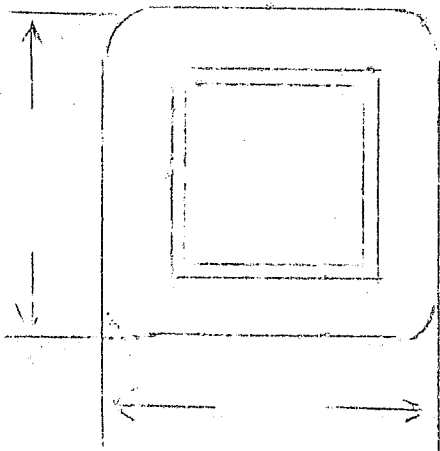
IMPREGNATION

Wax

CURE

3/4 x 3/4 audia

Hadley



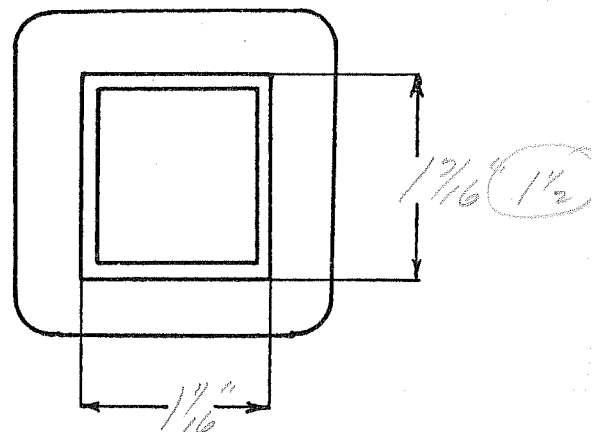
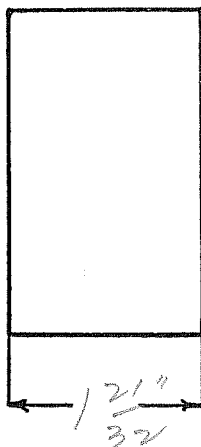
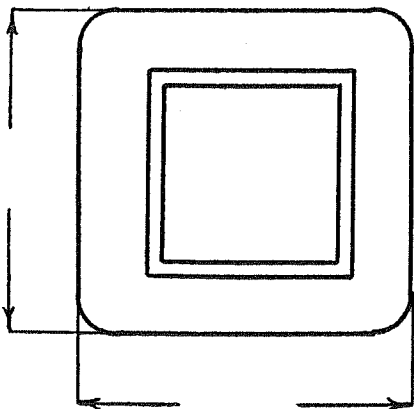
Cath. Modulation Transf

PP 626

5800 or 3800W

SPEC. NO. S-587

Winding		Pri		Sec		Sec	
Turns		11250		460		735	
Taps	150	825-1500		330		268	
Wind. Lgth.		1 7/16"		1 7/16"		1 7/16"	
Wire Size		#32		#25		#25	
T. P. L.		150-12		67-7		67-11	
Finish							
Type Lead		Sil. Br.		W. O.		W. O.	
Lead Lgth.		4"		4"		4"	
Layer Insul.		12 30# G		12 50# G		12 50# G	
Test Volt.							
Wrapper		2L 005VC		1L 007VC		1L-005VC 2L-005GA	
TUBE	6L-007 GA			IMPREGNATION	Double Varnish		
CORE	GA.	24	GRADE	D	STACK	.005 gap	
MOUNTING	F						



DESIGNED BY GW

DATE 11-1-39

MODULATION

STOCK

P-P 6N7 or 6A6 (10,000 ohms CT)

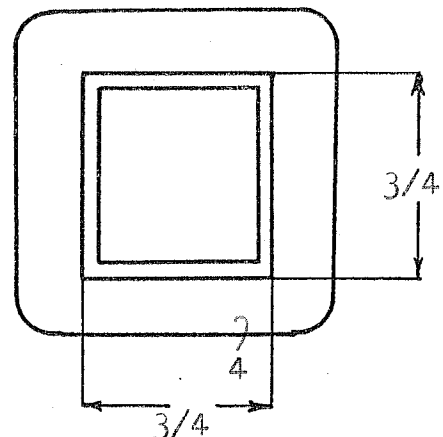
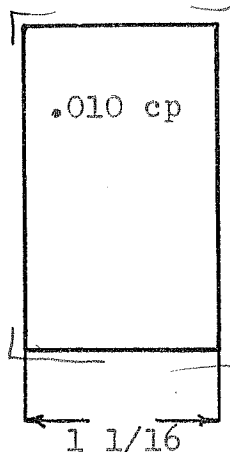
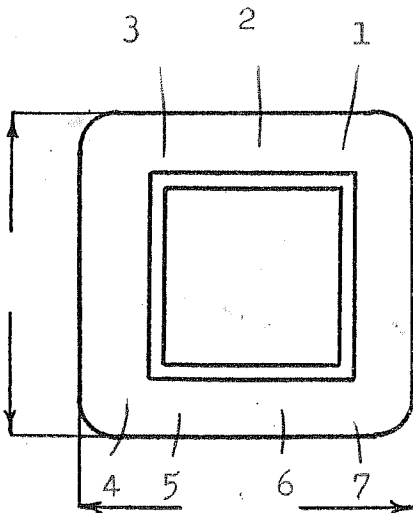
to
3000 - 5000 - 9000 ohms
10 watts

SPEC. NO. S-588-D

Winding	1-2-3 Pri.	4-5-6-7 Sec.		
Turns	2040	1830		
Taps	1020	1120-1445		
Wind. Lgth.	7/8	7/8		
Wire Size	#35	#33		
T. P. L.	128-16L	102-19L		
Finish	89%	91%		
Type Lead	Silver Braid #22 DULAC	Silver Braid #22 DULAC		
Lead Lgth.	9" from coil	9" from coil		
Layer Insul.	20#	20#		
Test Volt.	2000	2000		
Wrapper	.114 1L007VC	.167 2L005GA		

TUBE	4L007GK plus 1L003V6	IMPREGNATION	Varnish
CORE	3/4 x 3/4	GA. 29	GRADE B
MOUNTING	DA - Lugs	Stack so laminations & keepers fit in D bracket	STACK Butt .002 Gap Armite Keepers

T. P. V. -
window - $.339 / .375 = 90.4\%$



DESIGNED BY Rewritten
F.F.

DATE

DESIGN AND TEST DATA

Rating: Z = 10,000 - 8,000 - 5,000 - 3,000
 Zr = 3.333 - 2.667 - 1.667 - 1.000
 Tr = 1.825 - 1.633 - 1.291 - 1.000
 T = 2040 - 1830 - 1445 - 1120

Winding	Pri.	Sec.
Mean Turn	3.66	4.71
Resistance 25° c	209	152
Pounds Copper	.061	.112
Copper Density		
Ratio Volts	73-73	90.8-117.2-148.3
Test to Ground	2000	2000

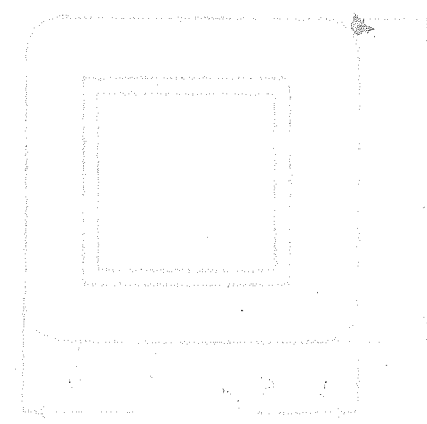
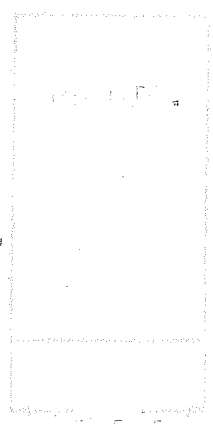
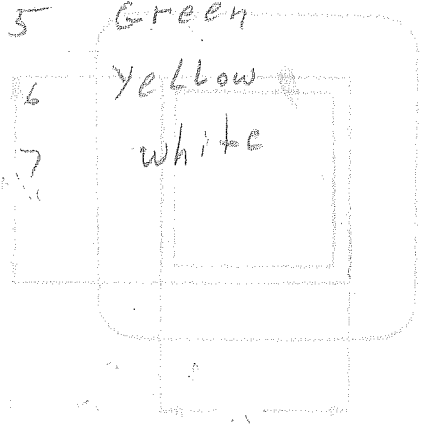
Iron Induction @ Cycles

Exciting Current amperes @ volts 60 cycles on

Induced Test: Apply Volts at Cycles on with grounded

Remarks:

- 1 Brown
- 2 Red
- 3 Blue
- 4 Black
- 5 Green
- 6 Yellow
- 7 white



OUTPUT - PRI - 5000.ohm OT. 65Ma peak 22 ma normal

SEC - 2 ohm, 500 ohm

Power Level - 25 Watts Class "AB"

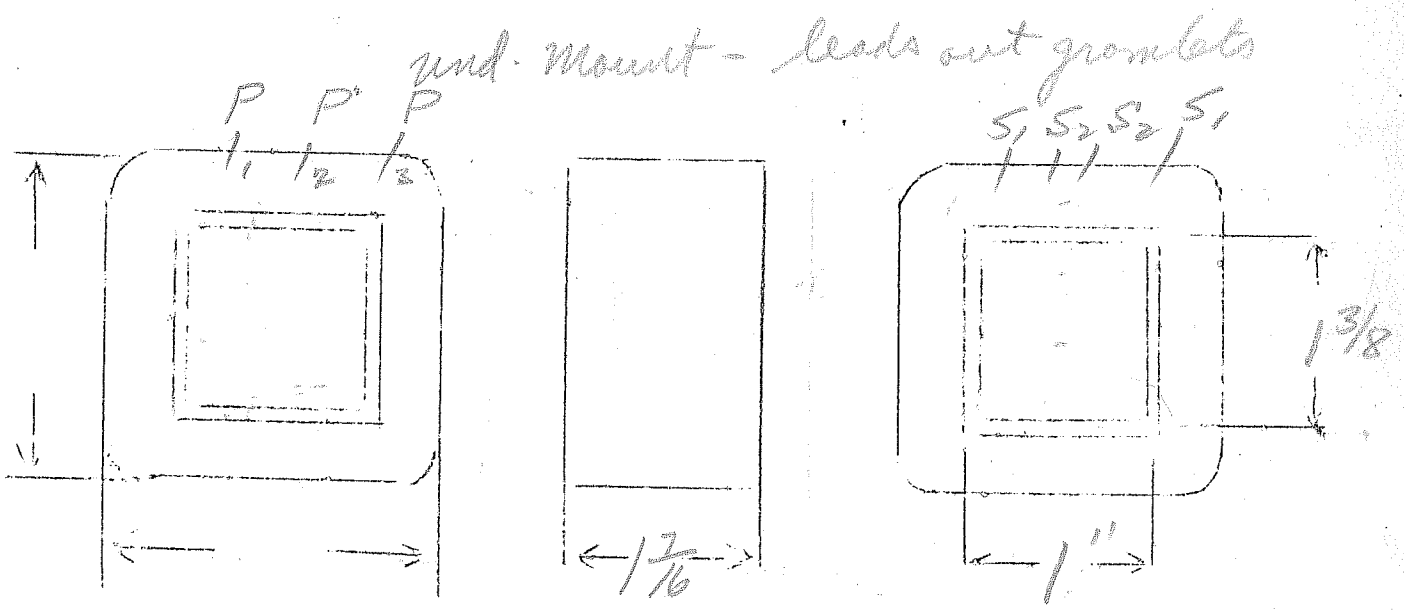
$R_{(P-S_1)} = 3.16$

$R_{(P-S_2)} = 50$

Golden Bear

SPEC. NO. 589

Winding	PRI	SEC ₁	SEC ₂				
Turns	3600	1140	72				
Taps	1800	NONE	NONE				
Wind. Lgth.	1.25	1.25	1.25				
Wire Size	#35	#31	#18				
T.P.L.	182-20	116-10	25-3				
Kind Term.	#20 PBR	#20 PBR	WIRE ONLY				
Term. Lgth.	9" $\frac{1}{2}$	9" $\frac{1}{2}$	9" $\frac{1}{2}$				
Layer Insul.	30#	30#					
Wrapper	3L003VP	2L0050A	2L0050A				
TUBE	4L007		IMPREGNATION	VARNISH - WAX			
CURE	1X 1 3/8 (1" NW 29G. AUDIO) .005 gap.						



INPUT - Single 42 (A) to Push Pull 42 (AB)

RATIO 1-1

Golden Bear

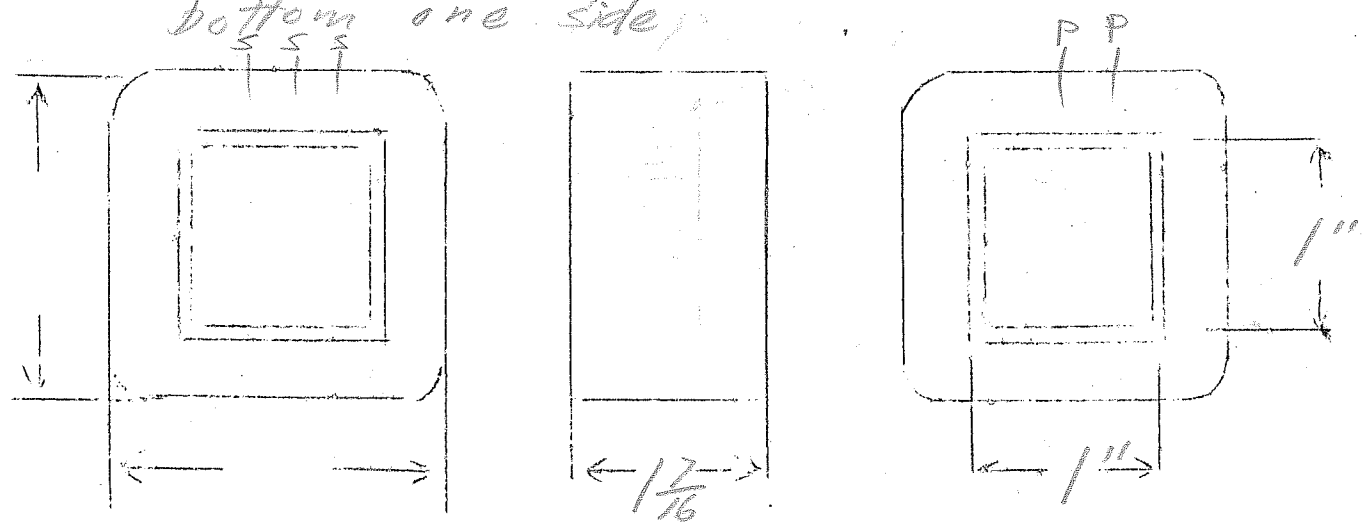
SPEC. NO. 590

Winding	PRI	SEC				
Turns	2240	4480				
Taps	NONE	2240				
Wind. Lgth.	1.25	1.25				
Wire Size	#32	#34				
T.P.L.	125-18	161-28				
Kind Term.	#20 P.BR	#20 P.BR				
Term. Lgth.	9"	9"				
Layer Insul.	20#	20#				
Wrapper	3L003VP	2L005G1				

TUBE 4L007 IMPREGNATION VARNISH-WAX

CURE 1" x 1" (1" N.W. 29G. Audio) .005" gap stack

Standard Und. Mount - Leads out bottom one side



PRI - 10,000- Ω P4-P4 - 65 major ticks
 SEC - 4000- Ω - 150Ma (MODULATOR)

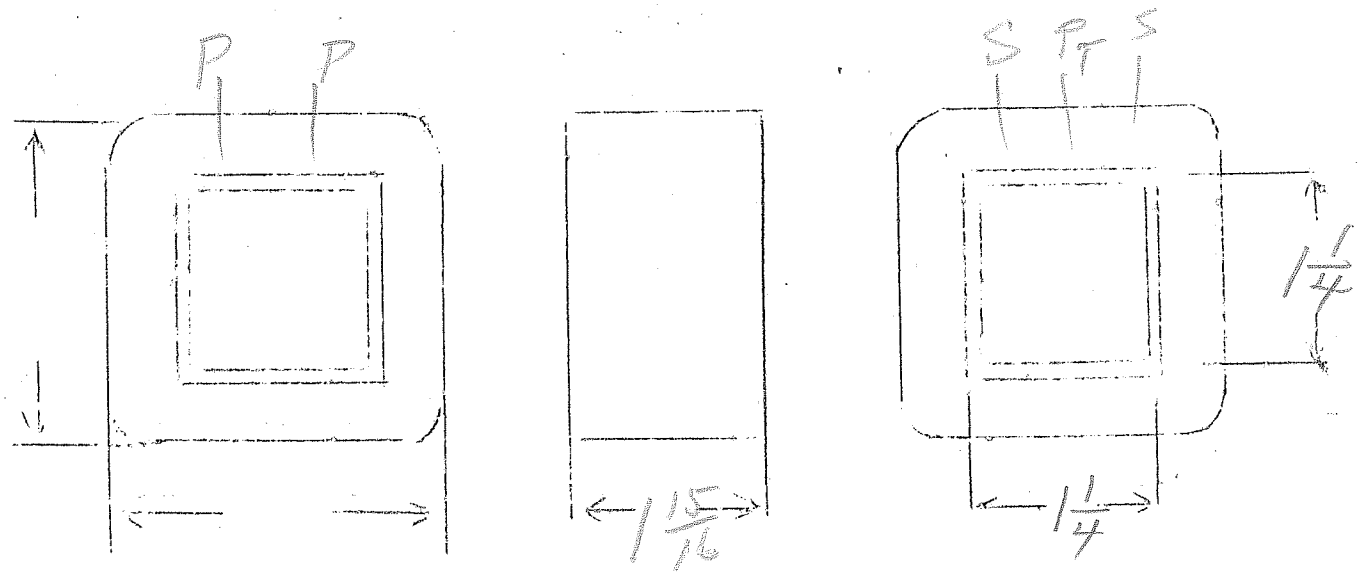
RADIO SUPPLY

OUTPUT 2-CLASS B 801A

SPEC. NO. 591

RATIO = 1.58

Winding	PRI		SEC				
Turns	3200		2000				
Taps	1600		NONE				
Wind. Lgth.	1.75		1.75				
Wire Size	#34E		#31				
T.P.L.	229-14		160-32				
Kind Term.	#20 PBR		#20 PBR				
Term. Lgth.	911		911				
Layer Insul.	20#		30#				
Wrapper	2L005VC		2L005GA				
TUBE	4L007		IMPREGNATION				VARNISH - WAX
CURE	1 1/4 x 1/4						



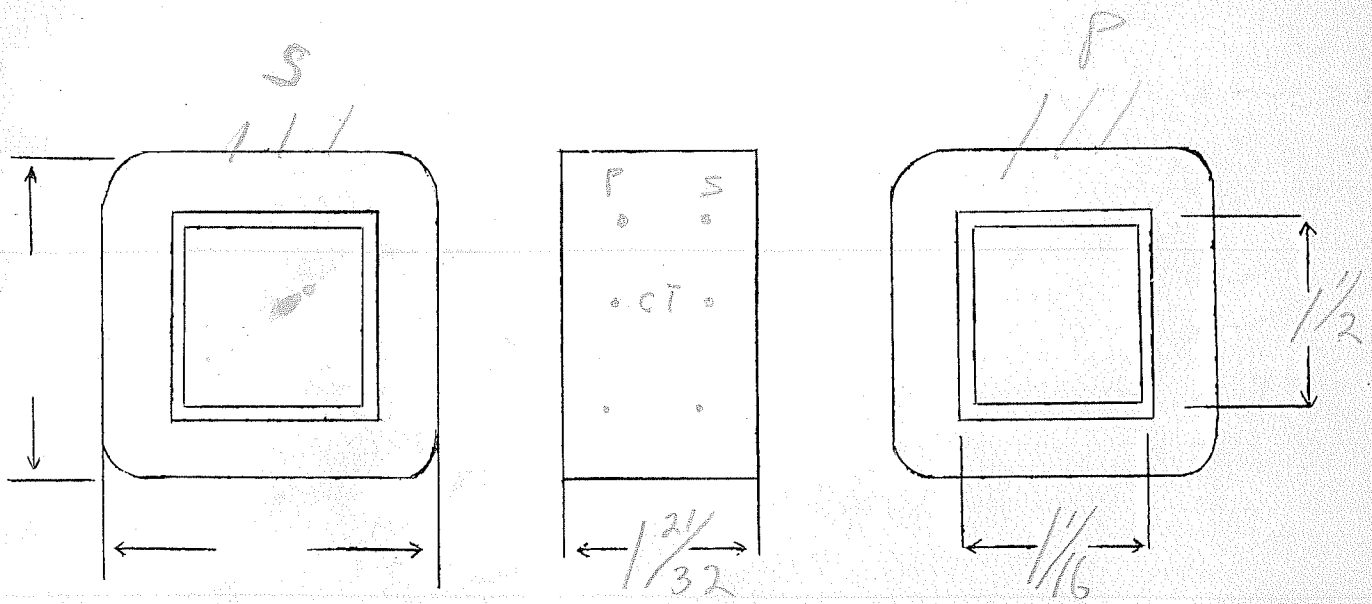
P.P. 2A3 plates to two 203A, 211, or 242A Class B grids.

OLD

SPEC. NO. 8592

Winding	P	S					
Turns	2720	3120					
Taps	1410	1560					
Wind. Lgth.	1 ¹⁵ / ₃₂	✓					
Wire Size	#33	#30					
T.P.L.	171-16	120-26					
Kind Term.	Sil #20	Br Pr Br					
Term. Lgth.	3 ¹ / ₄ "	3 ¹ / ₄ "					
Layer Insul.	30 #	30 #					
Test Volt.	1250	2500					
Wrapper	12007 VC 4LGR	2L0056A					

TUBE	7L007 GK	IMPREGNATION	VARNISH
CORE	1/16 X 1/2 296a BS 2 X 2	PRIMARY V.A.	
MOUNTING	A OR F		



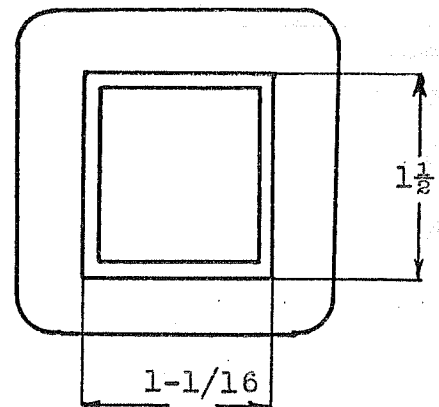
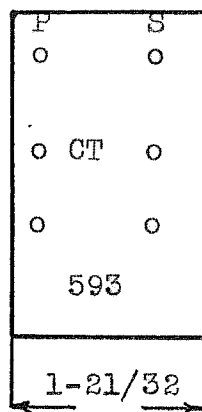
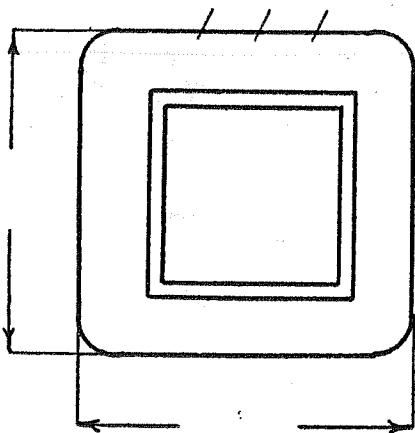
P.P. 2A3 to - 805, 838, 808

P: $\frac{1}{2}$ S = 3.2

OLD

SPEC. NO. S-593

Winding	P	S				
Turns	4660	2900				
Taps	2330	1450				
Wind. Lgth.	1-15/32	1-15/32				
Wire Size	#34	#31				
T. P. L.	195-24	145-20				
Finish						
Type Lead	Sil.	Br.				
Lead Lgth.	6"	6"				
Layer Insul.	40#	40#				
Test Volt.						
Wrapper	1L007VC 5LGL	2L005GA				
TUBE	7L007		IMPREGNATION		VARNISH	
CORE 1-1/16 x 1-1/2 GA. 29			GRADE B		STACK 2 x 2	
MOUNTING F						



DESIGNED BY GW

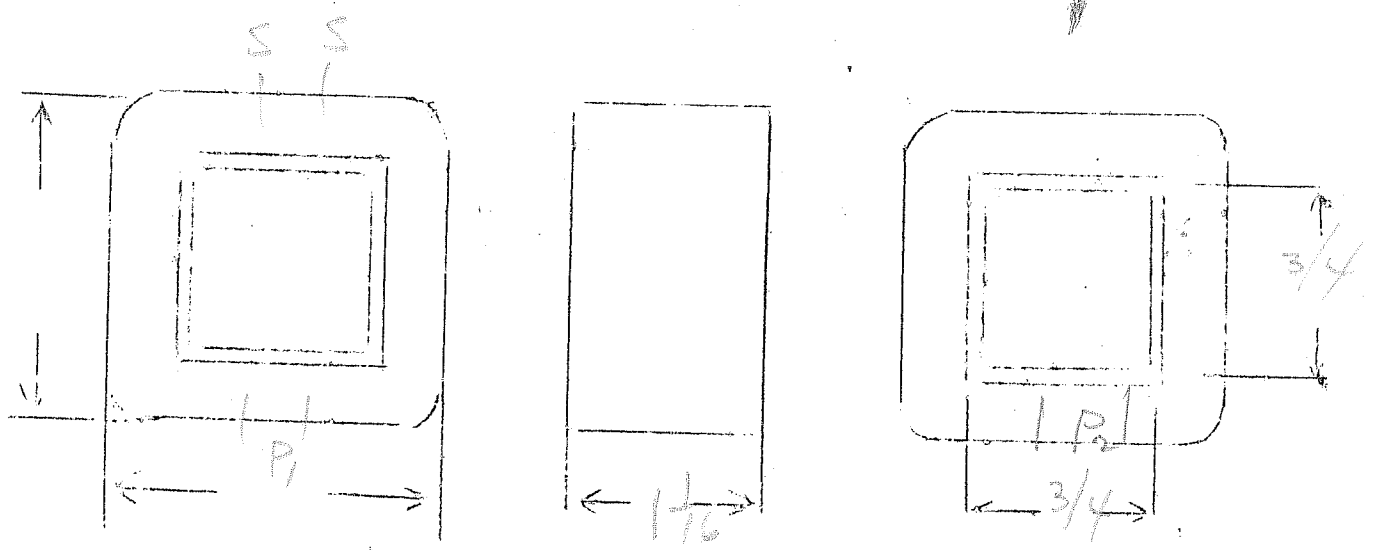
DATE 6/22/38

INTERCOM

SEC - 100,000 GRID
 PRI #1 200 Ω
 PRI #2 4 Ω

SPEC. NO. 593

Winding	SEC	PRI ₁	PRI ₂				
Turns	8400	370	23				
Taps	4200	—	—				
Wind. Lgth.	15/16	✓	✓				
Wire Size	#40	#32	#23				
T.P.L.	236-36						
Kind Term.	SIL BR	SIL BR	WIRE				
Term. Lgth.	3"	3"	3"				
Layer Insul.	16# Al	30# Al					
Wrapper	2L005GA	2L005GA	2L005GA				
TUBE	4L007	IMPREGNATION		WAX			
CURE	3/4 x 3/4	215 - AUDIO		2x2 STACK			



Universal Class B Input - P.P. 2A5 to 1A6P50
 P/1/2S = 1.0, 1.3, 1.7, 2.2

011

SPEC. NO. S 594

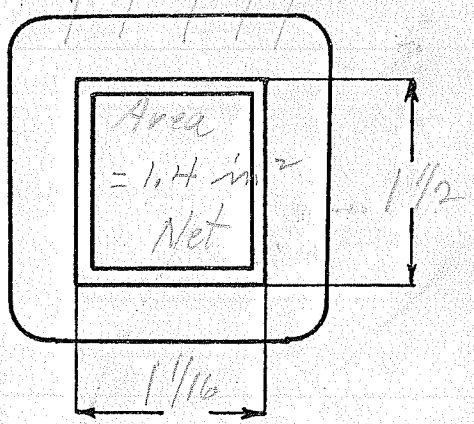
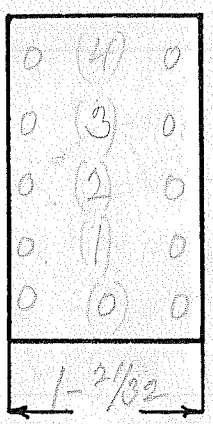
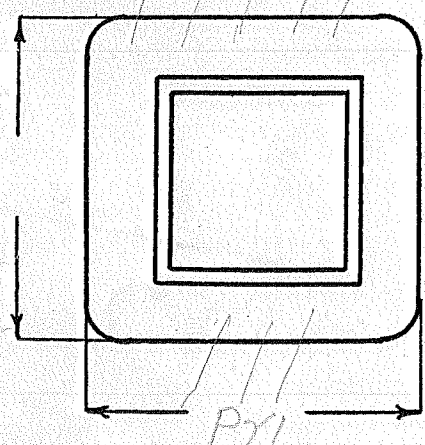
Winding	Sec.		Pr1	Sec.			
Turns	3260		3300	3260			
Taps	1340-1728 0-770		1650	1920-2490 0-1532			
Wind. Lgth.	1-15/32		1-15/32	1-15/32			
Wire Size	#34		#33	#34			
T. P. L.	192-17		165-20	192-17			
Finish	Pit. 89%		86 1/2%	89%			
Type Lead	Sil. Br.		Sil. Br.	Sil. Br.			
Lead Lgth.	4"		4"	4"			
Layer Insul.	30#		30#	30#			
Test Volt.	2500		2500	2500			
Wrapper	1 L007K 4 L61		1 L007K 4 L61	1 2 L005GA			

TUBE 7L007GK IMPREGNATION Varnish

CORE 1/16 X 1/2 GA. 29 GRADE B STACK 2X2

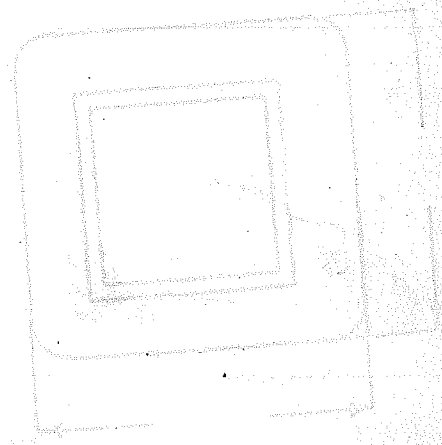
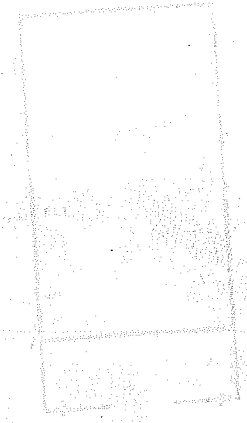
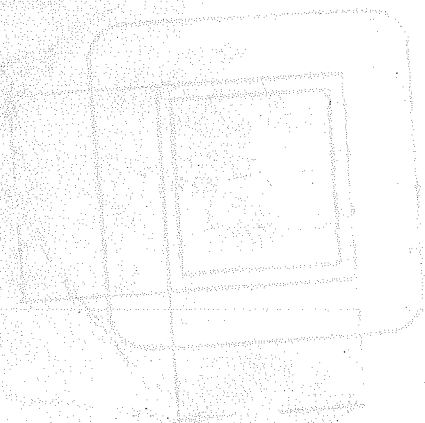
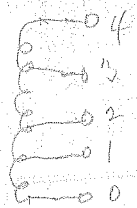
MOUNTING F

Fe = 21.7 @ 50w, 43.5 @ 25w
 TPV = 14.8
 Wire Net - .0500" (0.466")



DESIGNED BY W.M.C.L
 0719. G.W.

DATE 6/3/41
 5/7/38



DESIGNED BY

Universal Class B input - P.P. 2A3 to tapped sec.

$P/\frac{1}{2}S = 1.0, 1.3, 1.7, 2.2$

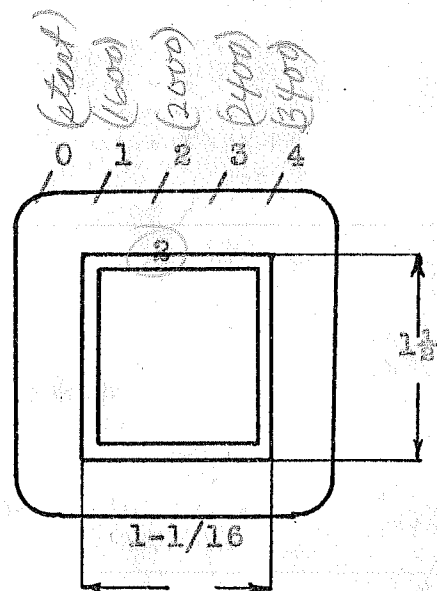
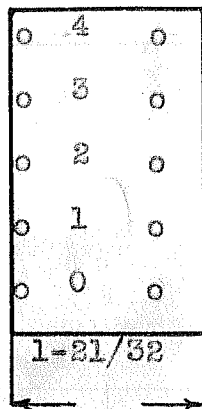
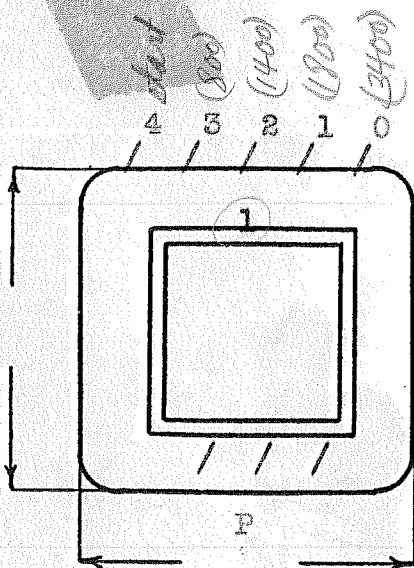
SPEC. NO. S-594

Winding	SEC ₁		PRI	SEC ₂			
Turns	3400		3400	3400			
Taps	0-800-1400-1800		1700	2600-2000-1600-0			
Wind. Lgth.	1-15/32						
Wire Size	#34		#33	#34			
T. P. L.	192-18		165-22	192-18			
Finish							
Type Lead	Sil. Br.						
Lead Lgth.	4"		4"	4"			
Layer Insul.	30#		30#	30#			
Test Volt.							
Wrapper	1L007VC 4LCL		1L007VC 4LCL	2L005GA			
TUBE	71007		IMPREGNATION	VARNISH			
CORE	GA. 29		GRADE B	STACK 2 x 2			

Obsolete

MOUNTING F

Finish into position



04
03
02
01
00
0P
00
0P
01
02
03
4

DESIGNED BY GW

DATE 5/7/38

Universal Class B Output - RPSA3 transformer

P/2 sec - 2.8, 3.6, 4.7, 6.0

SPEC. NO. 5595

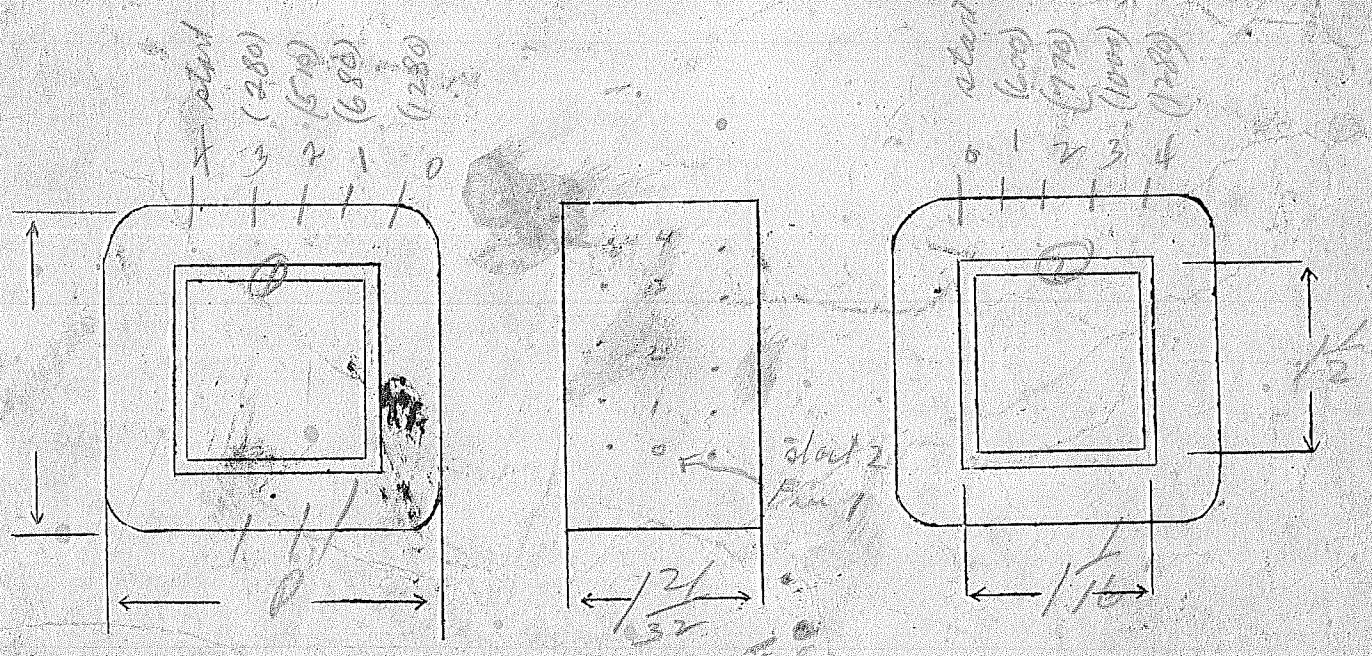
OLD

Winding	SEC 1		PR 1	SEC 2			
Turns	1280		3600	1280 ⁴			
Taps	680 ¹ - 510 ² - 280 ³		1800	600 ¹ - 770 ² - 1070 ³			
Wind. Lgth.	1 15/32		1 15/32	0			
Wire Size	#33		#33	33			
T.P.L.	165-106		165-22	165-10			
Kind Term.	Sil Br						
Term. Lgth.	6"		6				
Layer Insul.	30#		30#				
Test Volt.	2500		2500	-			
Wrapper	1400 V/C		1400 V/C	2400 SGA			

TUBE	76007	IMPREGNATION	VARNISH
CORE	24 A-B-2x2	PRIMARY V.A.	
MOUNTING	F		

Spiral leads to position.

Winding Key



DESIGNED BY

Geo

DATE

5/1/30

UNIVERSAL CLASS AB & B DRIVER

STOCK

P-P Par. 2A3's or 6L6's with feed back

30 watts

Ratio P/1S equals 1.5 - 2.0-2.5

SPEC. NO. D-596-F

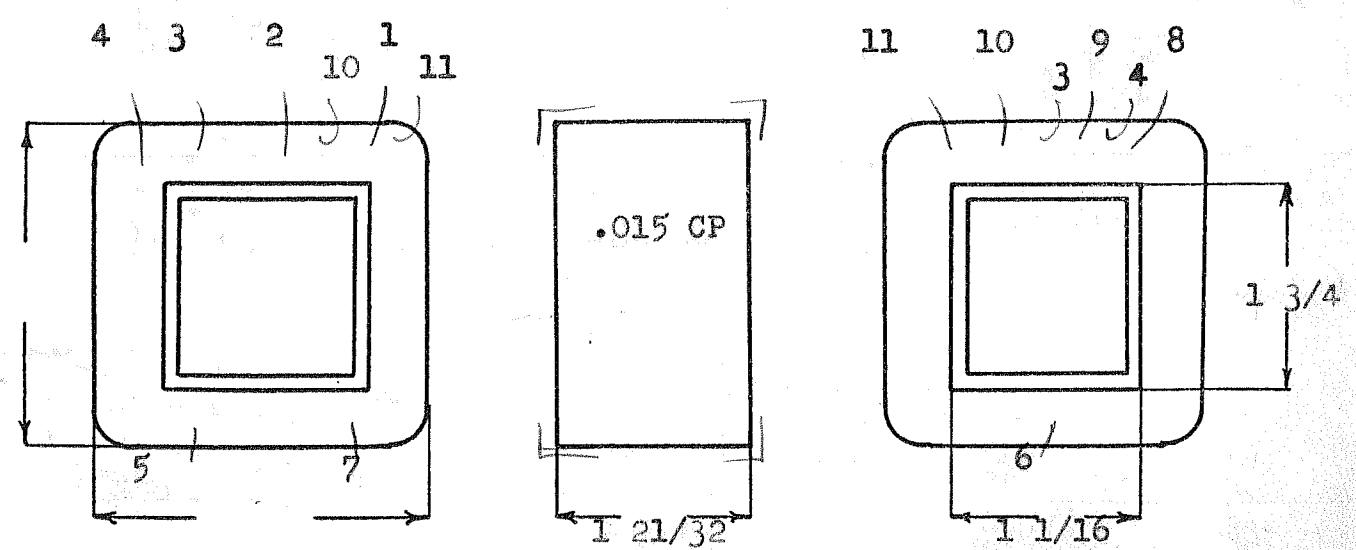
Winding	1-2-3-4 Sec #1	5-6-7 Pri.	8-9-10-11 Sec. #2
Turns	707	1060	707
Taps	177-282	530	425-530
Wind. Lgth.	1 7/16	1 7/16	1 7/16
Wire Size	#29	#29	#29
T. P. L.	106-7L	106-10L	106-7L
Finish	90%	90%	90%
Type Lead	Silver Braid Vinyl Sl.	Silver Braid Vinyl Sl.	Silver Braid Vinyl Sl.
Lead Lgth.	6"	6"	6"
Layer Insul.	30#	30#	30#
Test Volt.	2500	2500	2500
Wrapper	2L005VC	2L005VC	2L007GA

TUBE	7L007GK plus 1L003VP	IMPREGNATION	Varnish
------	----------------------	--------------	---------

CORE 1 1/16 x 1 3/4 GA. 29 GRADE B STACK Butt no gap

MOUNTING FF Armita Keepers

T. P. V. —
Window - $.430 / .656 = 65.5\%$



DESIGNED BY F. Frazee

DATE

DESIGN AND TEST DATA

Rating: _____

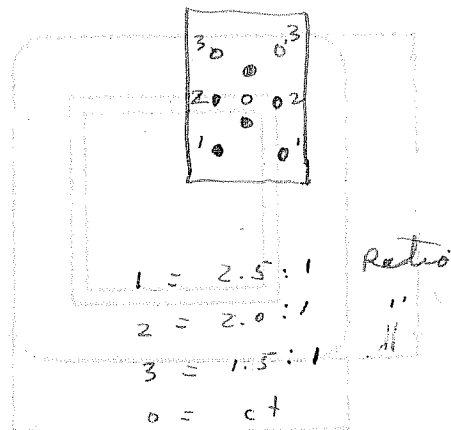
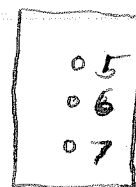
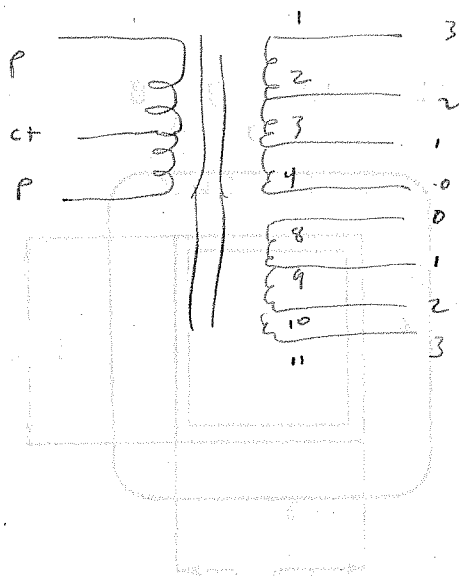
Winding	1-3-3-4 Sec #1		5-6-7 Pri.		8-9-10-11 Sec. #2	
Mean Turn	6.49		7.74		8.97	
Resistance 25° c	31.9		57.0		44.6	
Pounds Copper	.149		.367		.206	
Copper Density						
Ratio Volts	88.2-110-147		110-110		88.2-110-147	
Test to Ground	2500		2500		2500	

Iron Induction 8.0 kg @ 50 Cycles with 212 volts on 5-7

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks: _____



universal class B input 00626 (inverse feed)

P/2 S - 1.5, 2.0, 2.5, 3.0

SPEC. NO.

5596

DL D

Winding	SEC ₁		PR1	SEC ₂		
Turns	2400		3600	2400		
Taps	600-960	-1200	1800	1800	1800-1200	
Wind. Lgth.	1.75					
Wire Size	#31		#31	#31		
T.P.L.	180		180-20			
Kind Term.		5/1 Braid				
Term. Lgth.	4"					
Layer Insul.	30#		30#	30#		
Test Volt.						
Wrapper	1000 TVE		1000 TVE		2600 TVE	

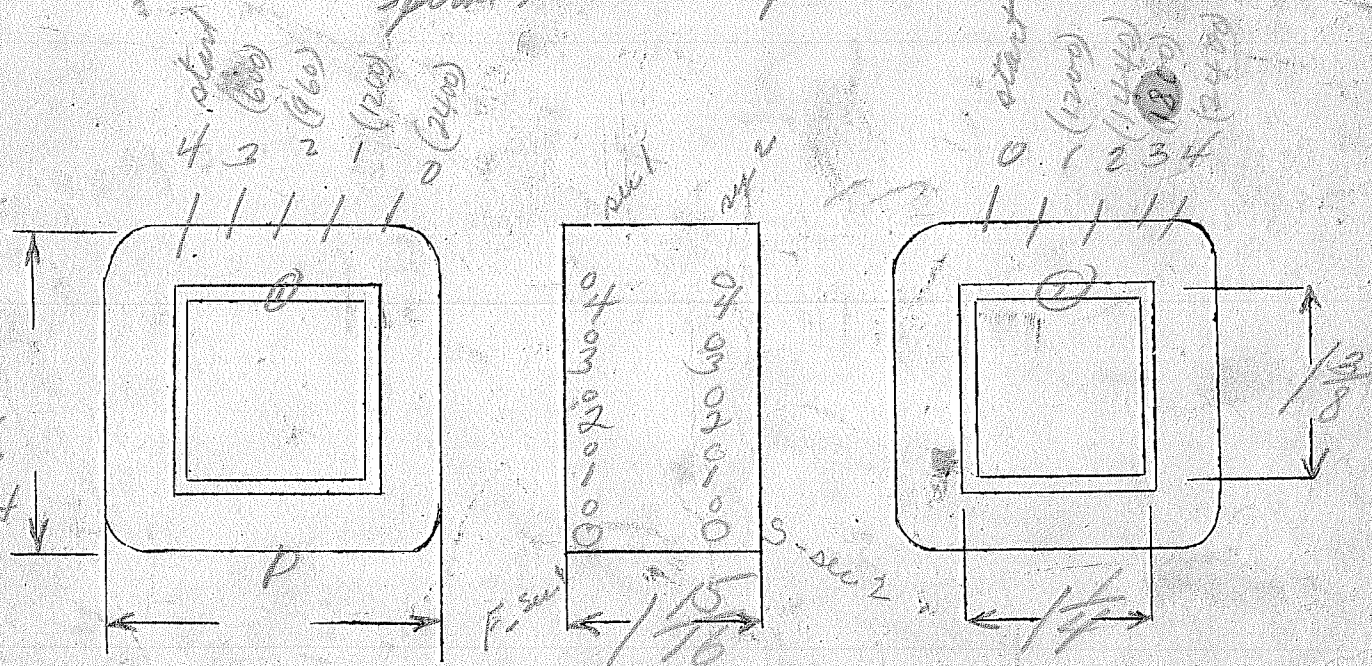
TUBE 7L007 IMPREGNATION Varnish

CORE 29mm - B grade - 2x2 PRIMARY V.A.

MOUNTING F

- 2400-04
- 1800-03
- 1200-02
- 960-01
- 600-00
- 300-P
- 150-OT
- 75-P
- 37.5-00
- 18.75-01
- 9.375-02
- 4.6875-03
- 2.34375-04

spiral leads into position



SIGNED BY

Gov

DATE

8/19/38

RADIO DOC

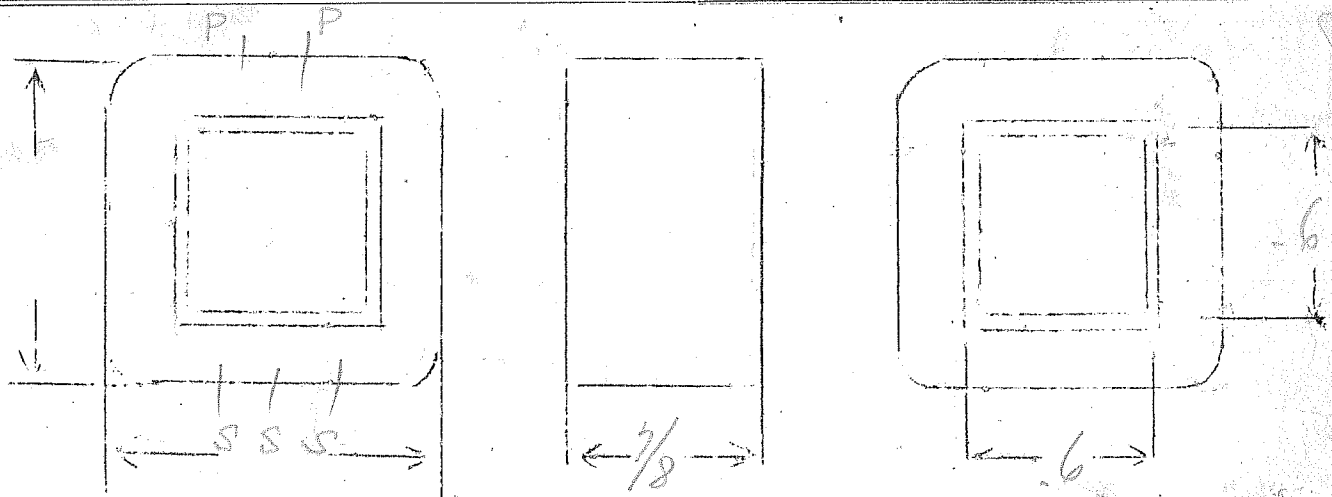
P.P. INPUT -

SPEC. NO. 597

Winding	PRI	SEC				
Turns	2200	5500				
Taps	-	2750				
Wind. Lgth.	3/4	3/4				
Wire Size	39	39				
T.P.L.	158	158				
Kind Term.	Sil Br	Sil Br				
Term. Lgth.	4"	4"				
Layer Insul.	16#	16#				
Wrapper	2L005VP	2L0056A				

TUBE 4L007 IMPREGNATION VARNISH+WAX

CURE .6x.6 - 296-AUDIO - 2x2



use panel, but no legs. Leads out.

Receiver input
 Plate + D. Button Mike to grid

SPEC. NO. 598

Winding	PRI ₁	SEC	PRI ₂				
Turns	2600	6500	410				
Taps	—	3250	205				
Wind. Lgth.	3/4	3/4	3/4				
Wire Size	40	40	33				
T.P.L.	225-12	225-34	70-6				
Kind Term.	Sil Br	Sil Br	Sil Br				
Term. Lgth.	3"	3"	3"				
Layer Insul.	16#	16#	20#				
Wrapper	1L005VE	1L005VE	1L005GA				
TUBE	4L007			IMPREGNATION		VARNISH-WAX	
CURE	.6 X .6						

