

4 Henries
 60 D. C. Ma. - 325 Ohm. - -1500 V. Ins.
 750 W.V.

SPEC. NO. C 300

WLL

Winding	Choke					
Turns	3300 ✓					
Taps	None					
Wind. Lgth.	3"					
Wire Size	35-E					
T. P. L.	110 - 30 L					
Finish	90% pitch					
Type Lead	Sil. Br.					
Lead Lgth.	3"					
Layer Insul.	.001 EL 14#9 20#9					
Test Volt.	2500V					
Wrapper	2L.005 GA					

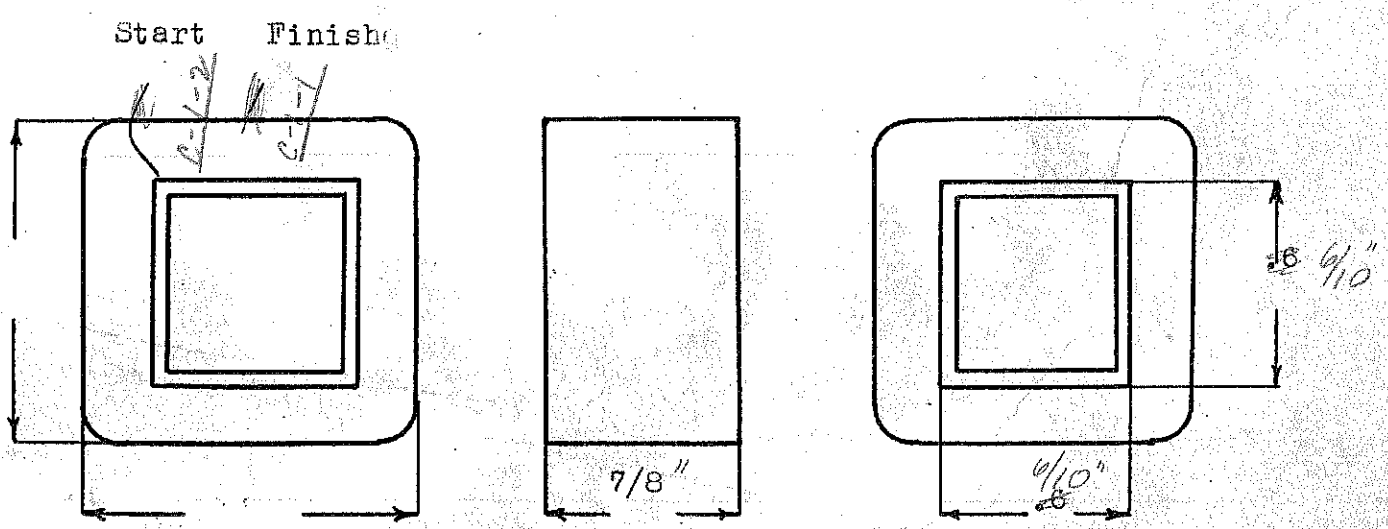
Handwritten scribbles and markings, possibly "MAGNET" or similar.

TUBE	4L.007GK	IMPREGNATION	VARNISH
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CORE	6/10 x 6/10 E+I GA. 24 dynamo	GRADE	D	STACK	Butt
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MOUNTING	D - Lugs & Panel	.0035 Gap. use .0025" Glassine
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7.07 h at .007" total gap. $C_0 = 525$
 Wire Net = 0.0217" (0.217")



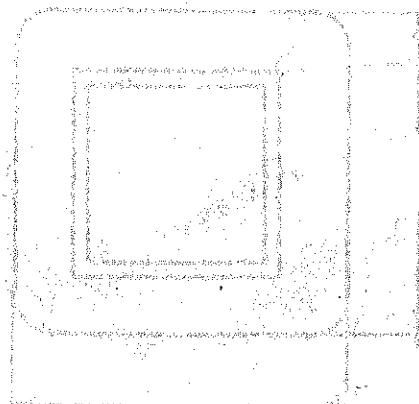
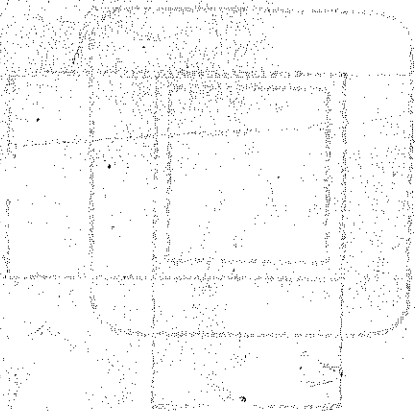
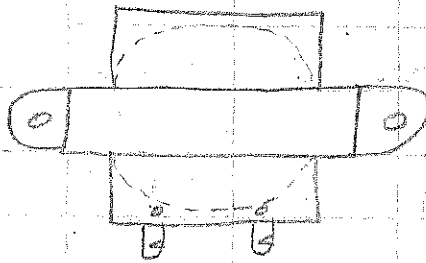
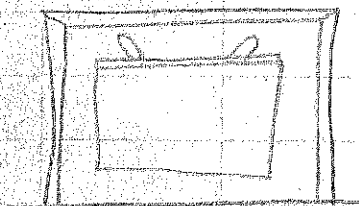
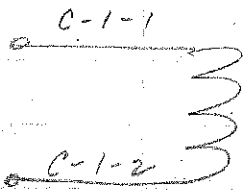
DESIGNED BY G.W. *NUR*

DATE 11-28-33

over

#1 - .60

#2 - .011



4 Henries
 60 D. C. Ma. - 325 Ohm.
 750 W. V.

SPEC. NO. C-300

Winding	1-2 Choke					
Turns	3500					
Taps	-					
Wind. Lgth.	3/4"					
Wire Size	55-B					
T. P. L.	110 - 30L					
Finish Pitch	90%					
Type Lead	D-lugs Sil. Br.					
Lead Lgth.	3"					
Layer Insul.	1L 20/G					
Test Volt.	2000V					
Wrapper	2L .005" GA					

TUBE 4L - .007" GK IMPREGNATION VARNISH

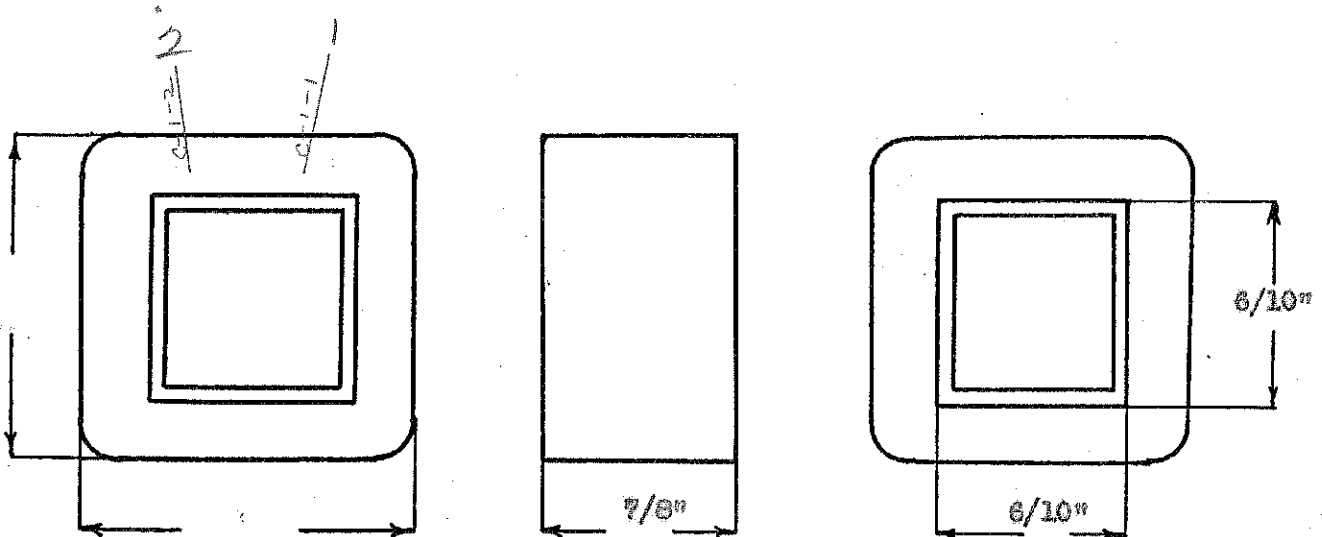
CORE 6/10" x 6/10" E & GA. 24 Dynamo GRADE D STACK Butt

MOUNTING D - Lugs & Butt .0055 Gap, Use .0025" Glassine

Qu = 525

Wire Net = 0.217" (0.213")

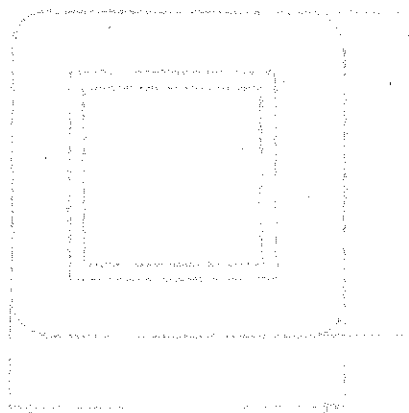
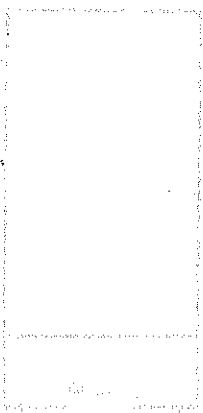
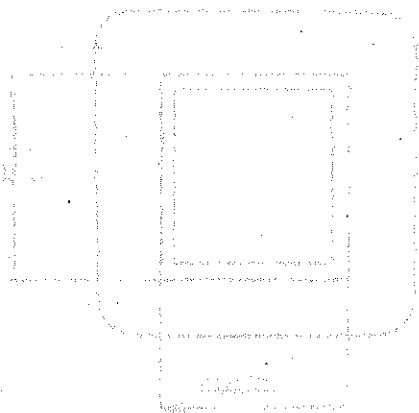
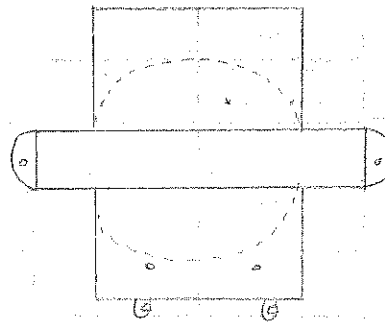
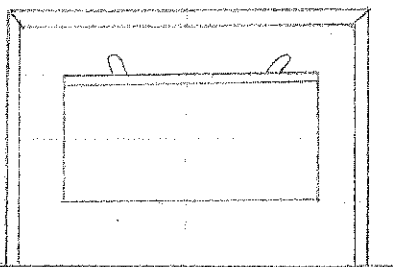
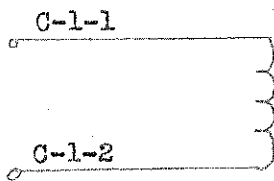
7.07 Henries @ .007" Total Gap



Re-DESIGNED BY HVS

DATE 4-2-42

#1 - .60
#2 - .011



High Impedance O. T. Choke
 1000 Henries @ 1/2 Ma.
 Max. D. C. - 6 Ma.

SPEC. NO. D-301

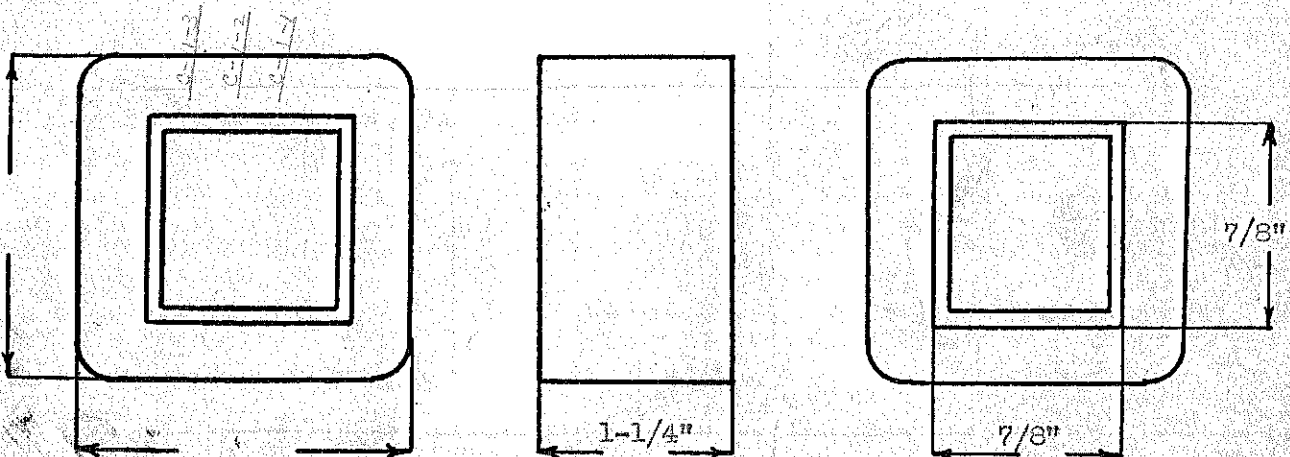
Winding		Choke				
Turns		22,400				
Taps	CT	11,200				
Wind. Lgth.		1-1/16" = 1.06"				
Wire Size		#40				
T. P. L.		280 - 80L				
Finish Pitch		90%				
Type Lead		Sil. Br.				
Lead Lgth.		3"				
Layer Insul.		1L 14#G				
Test Volt.		2000				
Wrapper		2L .005" GA				

TUBE 5L - .007" GK IMPREGNATION VARNISH

CORE 7/8" x 7/8" GA. 29 GRADE B STACK Butt - No Gap

MOUNTING "D" - LUGS

Cu =
 Wire Net = 0.334" (0.328")



Re DESIGNED BY HWS

DATE 6/19/42
 (Copied)

may do - 6 mil

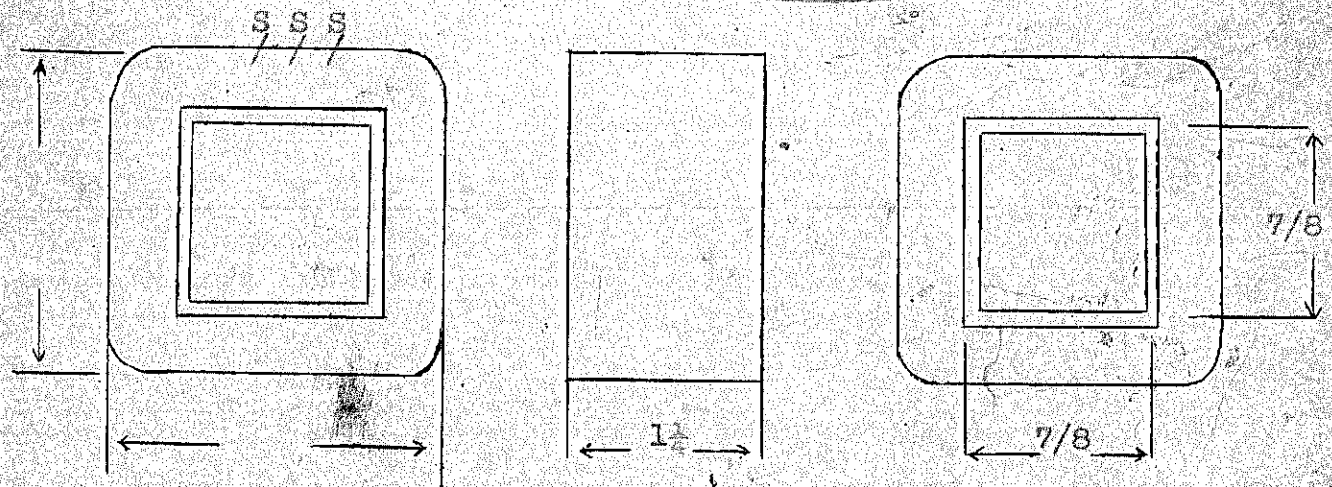
SPEC. NO. DC01

Winding	FBI		Choke			
Turns	24,000		23,400			
Taps	12,000	CT	11,200			
Wind. Lgth.	1-1/16		1 1/16" = 1.06"			
Wire Size	740	96.4%	#40			
T.P.L.	500-80		280-80	90%		
Kind Term.	Sil Braid		Sil Braid			
Term. Lgth.	3"		3"			
Layer Insul.	14#		12 14#9"			
Test Volt.						
Wrapper	2L005		2L 0054A			

TUBE	91007 5L007GR	IMPREGNATION	WAX Varnish
CORE	7/8 x 7/8	2 x 8 "8" Grade	PRIMARY V.A.
MOUNTING	D	26-29	Butt Stack, no gap

Co =
Wire Net = 0.334" (0.328")

RE-DESIGNED



SIGNED BY G.N.

DATE

FILTER CHOKE

STOCK

15 Hy @ 60 Ma. DC

400 ohms

750 working volts

SPEC. NO. C303-D

Winding		1-2 choke				
Turns		4290				
Taps		--				
Wind. Lgth.		7/8				
Wire Size		#34				
T. P. L.		116-37L				
Finish		91%				
Type Lead		Silver Braid to lugs				
Lead Lgth.		3"				
Layer Insul.		20#				
Test Volt.		2500				
Wrapper		2L005GA				

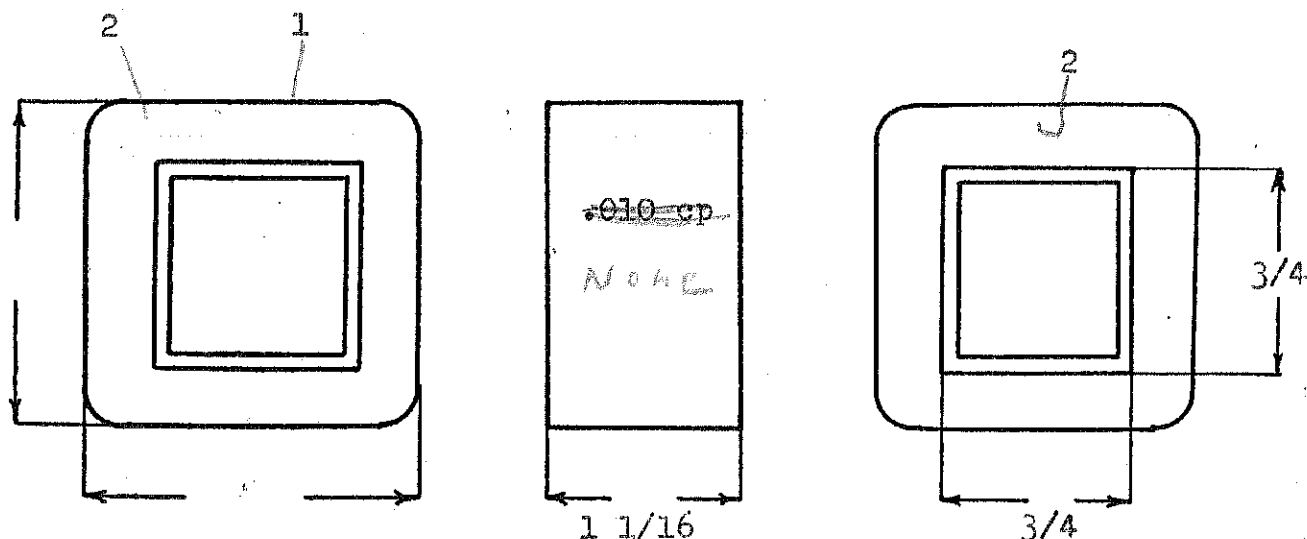
WIND TIGHT

TUBE 5L007GK + 12003VG IMPREGNATION Varnish

CORE 3/4 x 3/4 GA. 24 GRADE D STACK Butt .010

MOUNTING D - Lugs

T. P. L. -
window - .344 / .375 = 92%



DESIGNED BY Re-written
F. FRABEE

DATE 4-9-47

DESIGN AND TEST DATA

Rating:

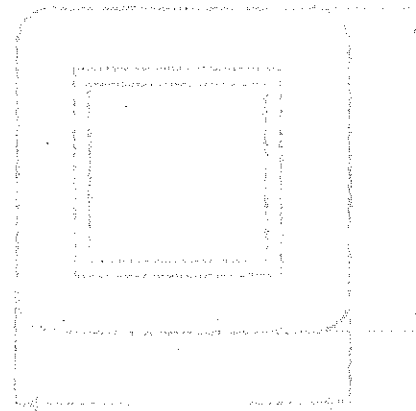
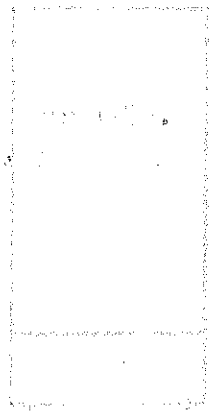
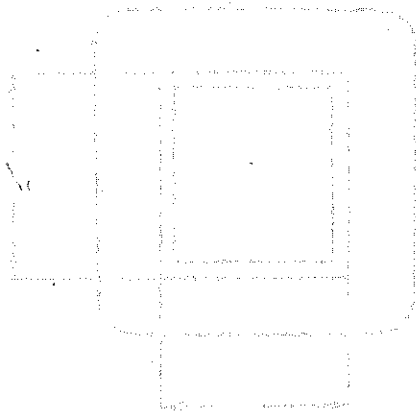
Winding		1-2 choke					
Mean Turn		4.34					
Resistance 25° c		413					
Pounds Copper		.191					
Copper Density		663					
Ratio Volts		---					
Test to Ground		2500					

Iron Induction @ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on

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

Remarks:



2100

Y0

FILTER CHOKE

STOCK

15 Hy @ 60 Ma. DC

400 ohms

750 working volts

SPEC. NO. C303-D

Winding		1-2 choke				
Turns		4290				
Taps		--				
Wind. Lgth.		7/8				
Wire Size		#34				
T. P. L.		116-37L				
Finish		91%				
Type Lead		Silver Braid to lugs				
Lead Lgth.		3"				
Layer Insul.		20#				
Test Volt.		2500				
Wrapper		2L005GA				

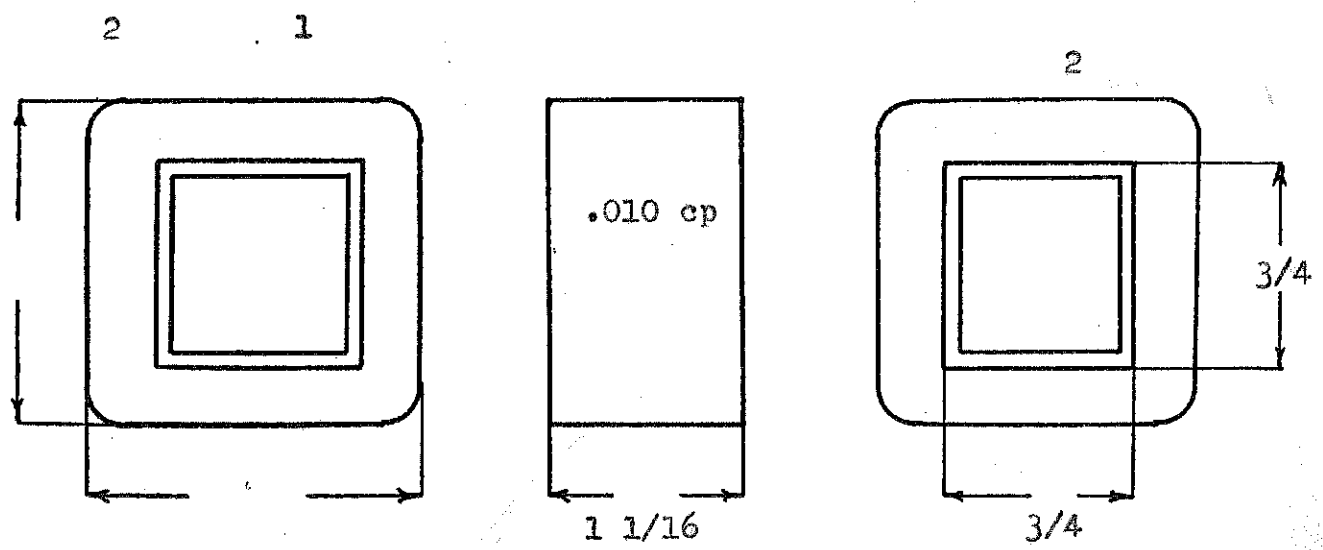
WIND TIGHT

TUBE 5L007GK + 1L003VG IMPREGNATION Varnish

CORE 3/4 x 3/4 GA. 24 GRADE D STACK Butt .010

MOUNTING D - Lugs

T. P. V. —
 Window — $.344 / .375 = 92\%$



DESIGNED BY *Re-written F. Frazee*

DATE 4-9-47

DESIGN AND TEST DATA

Rating: _____

Winding		1-2 choke					
Mean Turn		4.34					
Resistance 25° c		413					
Pounds Copper		.191					
Copper Density		663					
Ratio Volts		---					
Test to Ground		2500					

Iron Induction _____ @ _____ Cycles _____

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

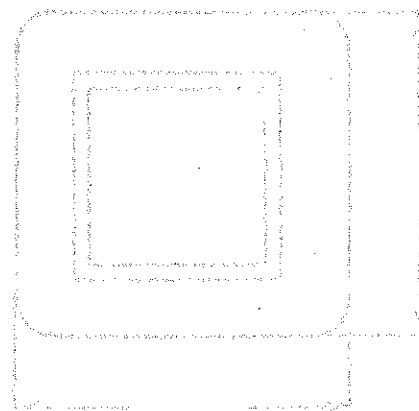
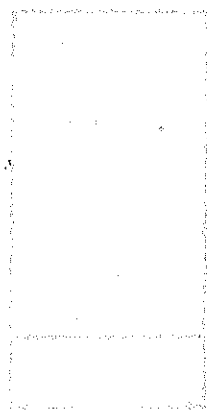
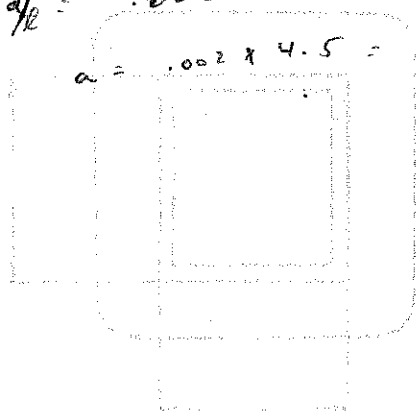
Remarks: _____

$$\frac{NI}{l} = \frac{2290 \times 0.060}{11.42} = 22.6$$

$$\frac{LI^2}{V} = \frac{15 \times (0.06)^2 \times 10^4}{41.5} = 12.5$$

$$d/2 = .002$$

$$a = .002 \times 4.5 = .009$$



15
 25 Henrios - 10% Tap
 100 D. C. Ma. - 450 Ohm - 2500 V. Ins.
 75 J. W. V.

Same as # 1721
 012

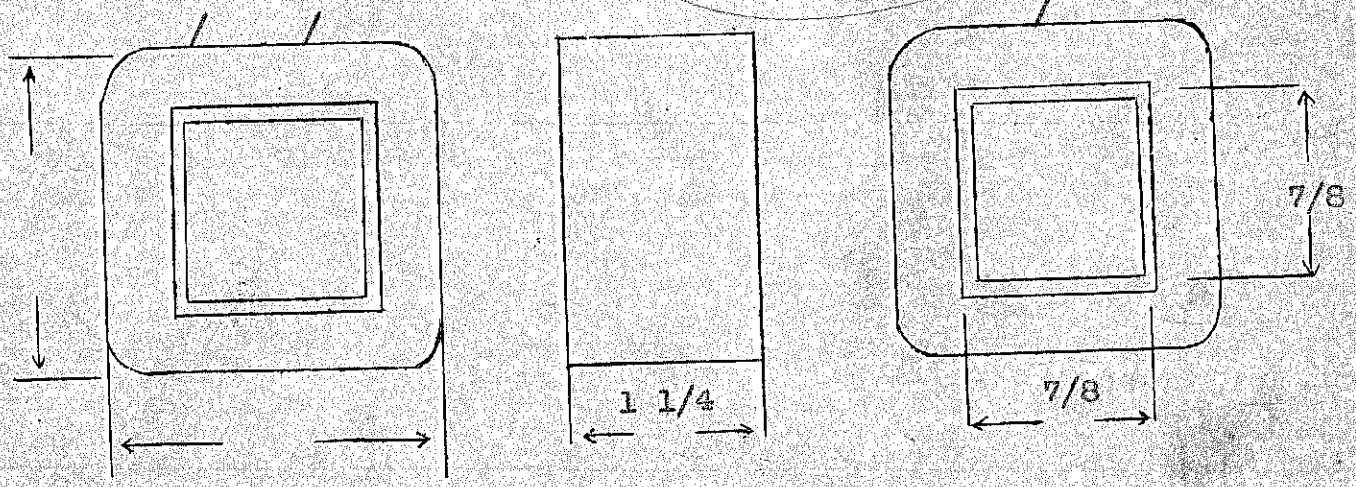
Old Stock

SPEC. NO. 6504

Winding	P						
Turns	5300						
Taps	528						
Wind. Lgth.	1 1/16						
Wire Size	#33						
T.P.L.	132-41						
Kind Term.	S11.Br.						
Term. Lgth.	3"						
Layer Insul.	20#						
Test Volt.	2500 V.						
Wrapper	2L.005GA						
TUBE	7L.007			IMPREGNATION		VARNISH	
CORE	7/8 x 7/8	24/40 dynamo 010 gap			PRIMARY V.A.		
MOUNTING	A						

96% with 5L Tube

\$4.75 net



DESIGNED BY

DATE

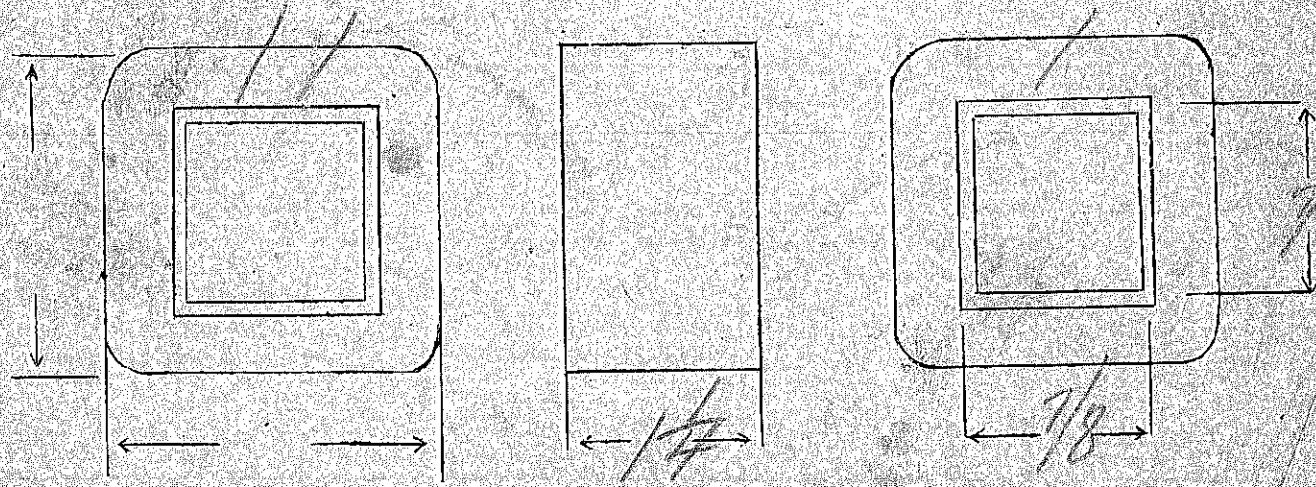
15
 100 ma
 450W 100%

SPEC. NO. C 304

Winding	P		Choke	
Turns	5300		5120	
Taps	528	4 1/2" Lay	528	4 1/2" Lay
Wind. Lgth.	1 1/16"		1 1/16"	1.06"
Wire Size	#33	96%	#33	91%
T.P.L.	132-41		135-41	
Kind Term.	oil Bu or #20 Pr. B			
Term. Lgth.	3"		3"	
Layer Insul.	3/16"		1/16"	20#6
Test Volt.	2500V		2500.	
Wrapper	210050A		2K-005 GA	

TUBE 7007 5K-007" VC + 1/2" 005" VC IMPREGNATION Varnish
 CORE 7/8" x 7/8" Butt Stick - 010" PRIMARY V.A.
 MOUNTING A or B

C₀ = 500
 Wire Net = 0.346" (0.356)
 0.361" (0.356")



IGNED BY [Signature] DATE 5/13/37

60 Hz, 15 ma
 1600 ohm, 1500v
 Audio choke

SPEC. NO. C 306

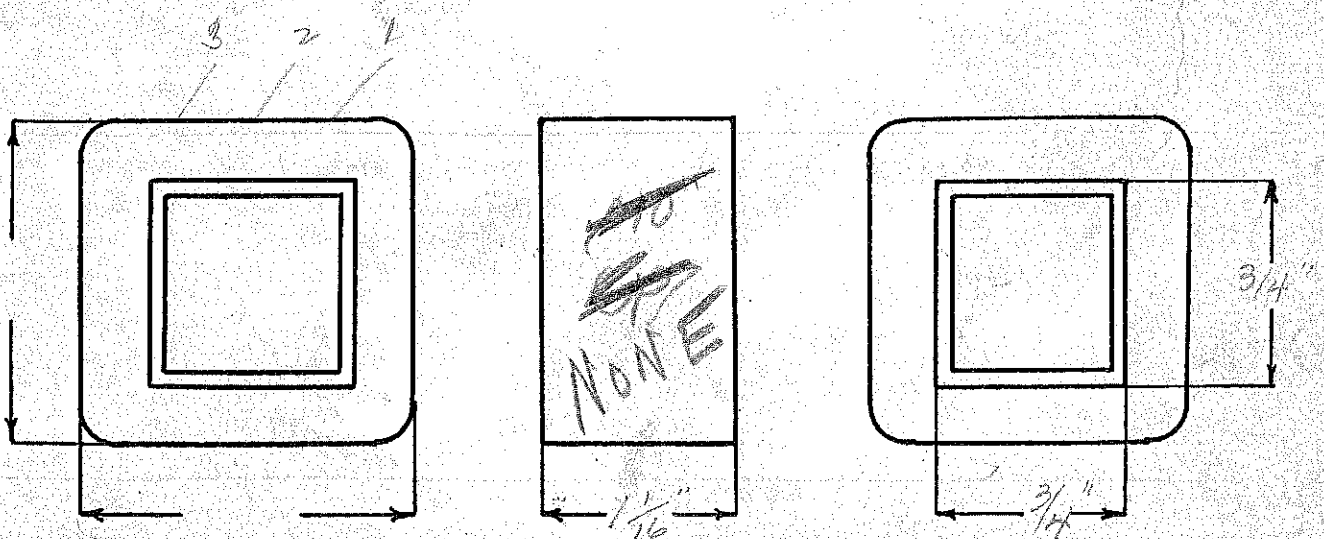
Winding		Choke				
Turns		8300				
Taps	CT-	4150				
Wind. Lgth.		7/8" = .875"			<u>NOTE:-</u> THIS COIL IS VERY TIGHT. KEEP WIRE TENSIONS AT MAXIMUM TIGHTNESS.	
Wire Size		#37				
T. P. L.		160-52L				
Finish	Finish	90%				
Type Lead		Silv. Braid				
Lead Lgth.		3"				
Layer Insul.		1L 12L 14L				
Test Volt.		1500v				
Wrapper		2L 005" GA				

TUBE 4L - 007" G.K. IMPREGNATION Varnish

CORE 3/4" x 3/4" GA. 29 GRADE B STACK BUTT - No Gap

MOUNTING "D" with lugs

$C_0 = 1320$
 $WN = 284(.29)$



DESIGNED BY NWS

DATE 6-12-41

4 Henries - 125 Ma. - 150 Ohm Res.
2500V. Test

Filter Choke

025

(4.46H)

(Handwritten initials)

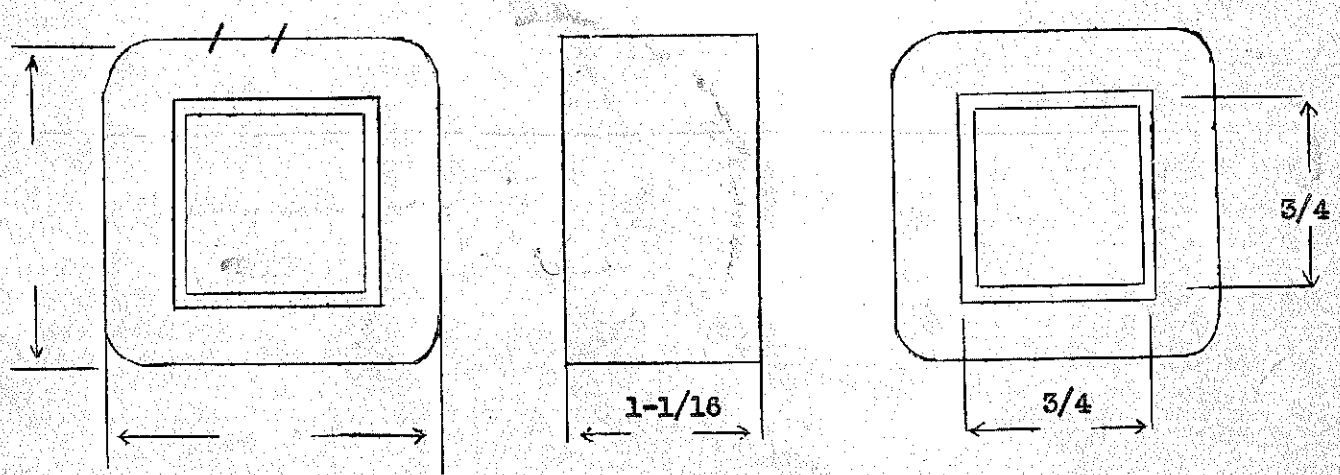
SPEC. NO. C308

Winding	PRI.			Choke		
Turns	2580 2550			2380		
Taps	—			—		
Wind. Lgth.	27/32	= 0.844"		27/32"	= 0.844"	
Wire Size	#32	90%		#32	90%	
T.P.L.	88-29			88-29		
Kind Term.	Sil. Br.					
Term. Lgth.	5"					
Layer Insul.	20#			1L 30#G		
Test Volt.	2500					
Wrapper	2 SL005GA			2L-005GA		

TUBE 5L007 / 4L-007 1/2 GA | IMPREGNATION | Varnish - Lamination
 CORE 24 Ga. - 1080 1/2" Gap | PRIMARY V.A. |
 MOUNTING D *incl. 005"*

$Cu = 503$
 Wire Net = 0.0273" (0.282")

$\frac{273}{254}$



44-125 mA - 150 ohms res

1117

OLD

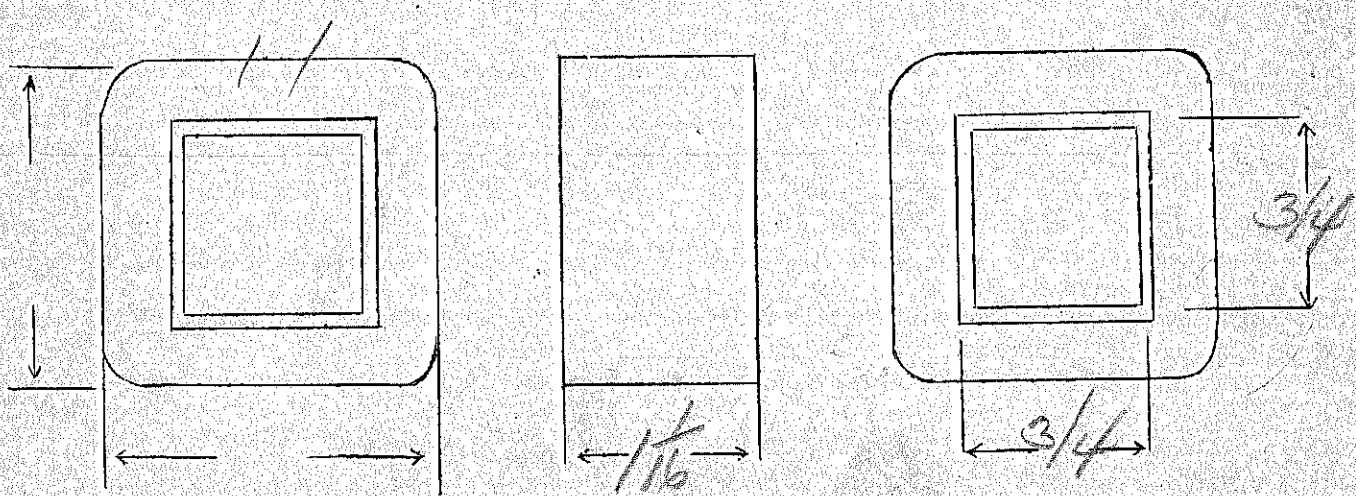
2500V Test

SPEC. NO. C 308

Winding	\emptyset						
Turns	2460						
Taps							
Wind. Lgth.	$2\frac{1}{32}$	= 0.843"					
Wire Size	#32						
T.P.L.	88-282						
Kind Term.	90% 50% 50%						
Term. Lgth.	3"						
Layer Insul.	20#						
Test Volt.	2500						
Wrapper	20005 GA						

TUBE	52007	IMPREGNATION	Varnish - Jernumation
CORE	24 ga - .006" gap	PRIMARY V.A.	
MOUNTING	\emptyset	use .005"	

4.4612" \pm .012" total gap
 Wire Net = 0.278" (0.274")



DESIGNED BY *Jew*

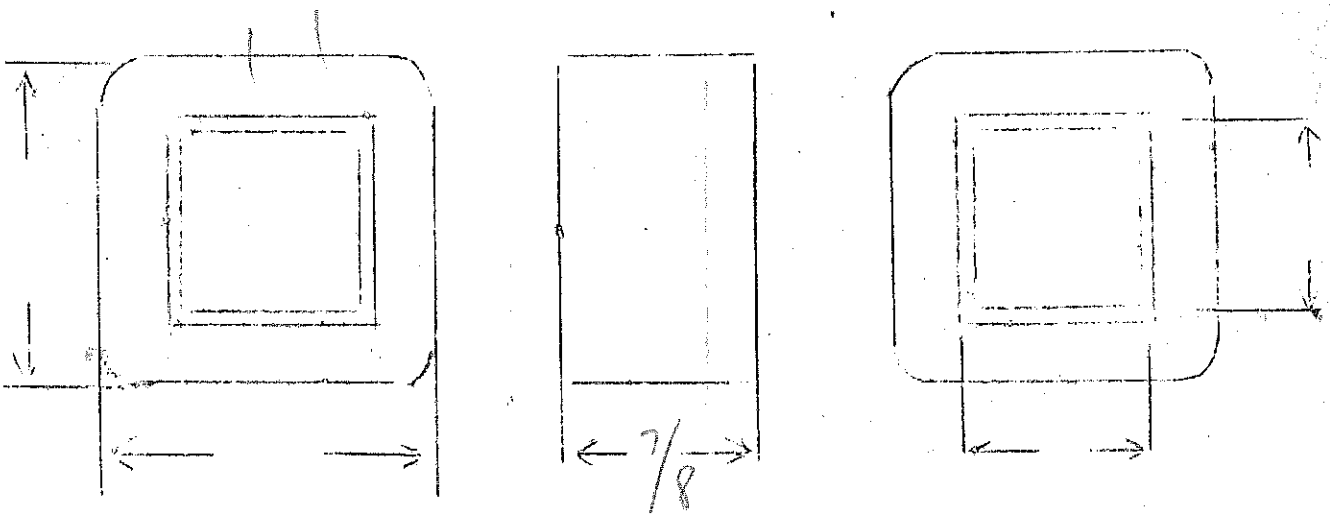
DATE 6/7/38

25 Heavies - 25 ma

TROY

SPEC. NO. 308

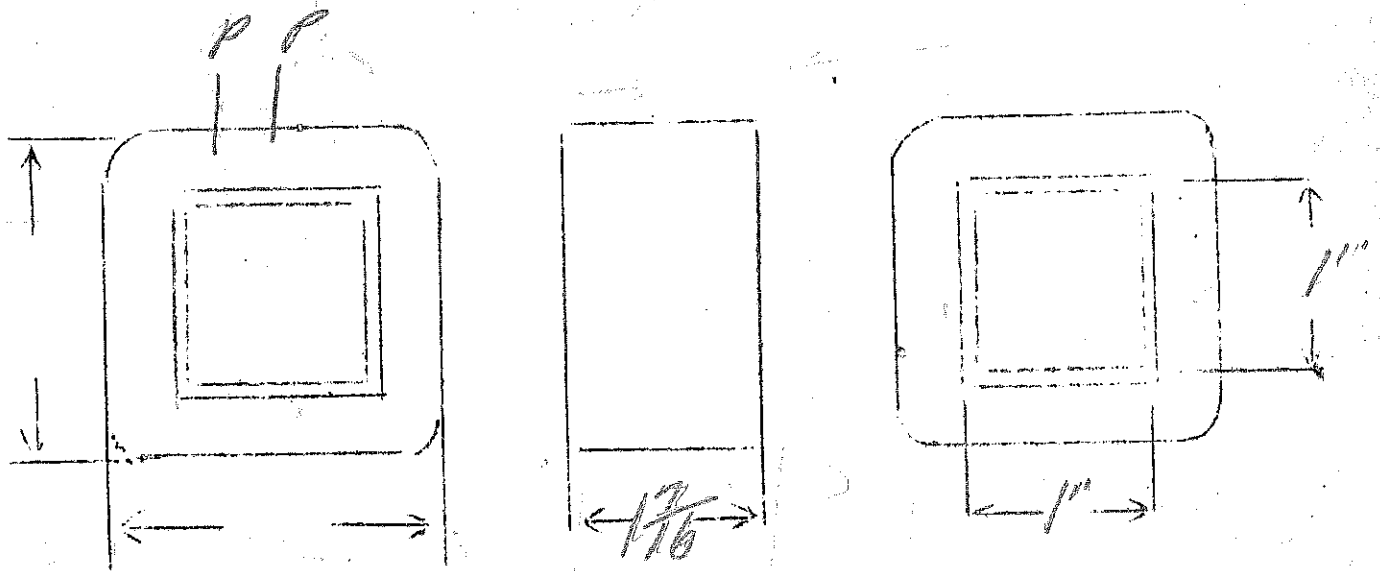
Winding	PRI						
Turns	3000						
Taps	NONE						
Wind. Lgth.	3/4						
Wire Size	#37E						
T.P.L.	130-24						
Kind Term.	SIL BR						
Term. Lgth.	3"						
Layer Insul.	20#						
Wrapper	12005GA						
TUBE	42067	IMPREGNATION			WAX		
CURE	.6 x .6 NW						



10 H - 150 ma
150 52 - check

SPEC. NO. 321

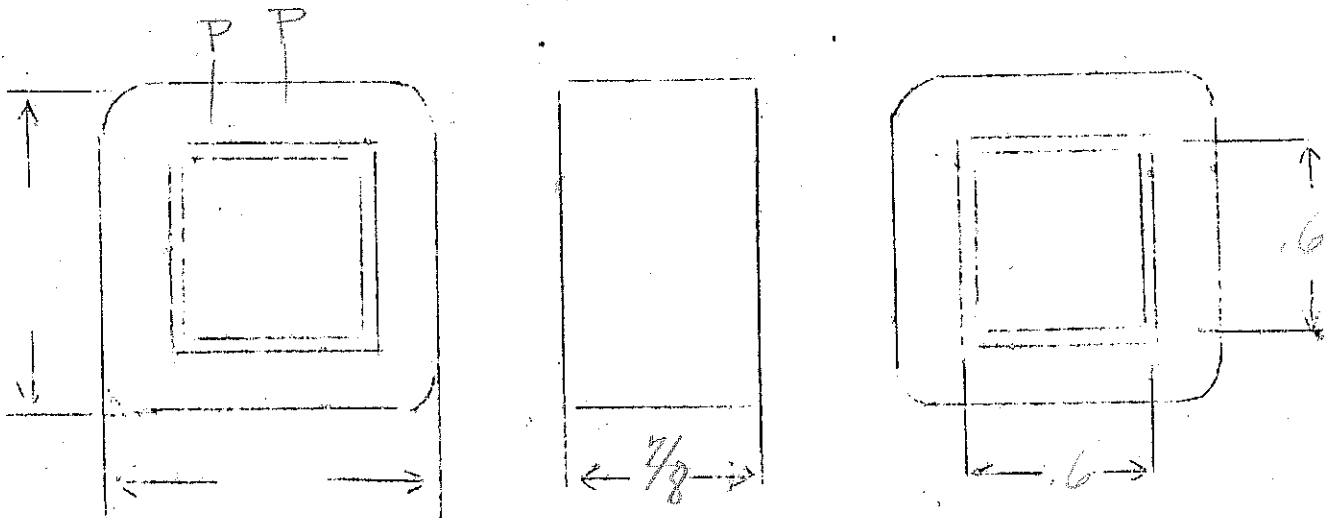
Winding	PR1						
Turns	3300						
Taps	404						
Wind. Lgth.	125						
Wire Size	30E						
T.P.L.	101						
Kind Term.	511 Br						
Term. Lgth.	3"						
Layer Insul.	20 #						
Wrapper	2L0050A						
TUBE	4L007	IMPREGNATION			VARNISH		
CURE	1" x 1" NW	.015 GAP	26G				



AMER. MICRO
 75 HENRIES - 10MA

SPEC. NO. 323

Winding	PRI						
Turns	6900						
Taps							
Wind. Lgth.	3/4						
Wire Size	#38	CHECK					
T.P.L.	146	LAYERS					
Kind Term.	S11 BR						
Term. Lgth.	3"						
Layer Insul.	16#						
Wrapper	260056A						
TUBE	142007	IMPREGNATION			WAX		
CURE	1.6x.6						



12

15 Henries - 10% Tap
125 D. C. Ma. - 250 Ohm - 2500 V. Ins.

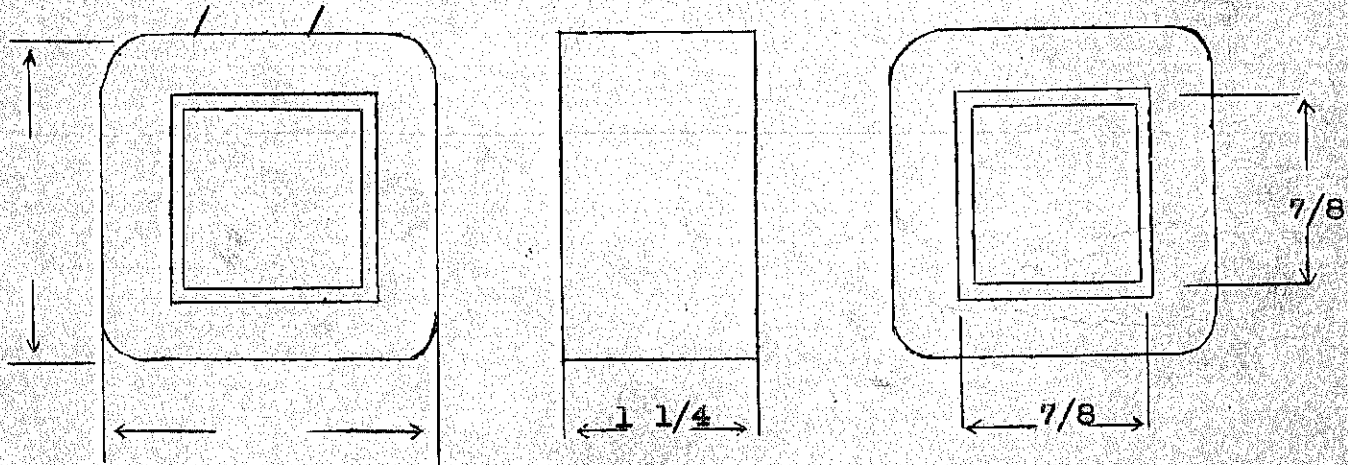
SPEC. NO. C324

Winding	P						
Turns	4000 ✓						
Taps	440	4th layer					
Wind. Lgth.	1 1/16						
Wire Size	#32	89%					
T.P.L.	110 - 37						
Kind Term.	#20 P.Br.						
Term. Lgth.	9"						
Layer Insul.	20#						
Test Volt.	2500						
Wrapper	2L.005GA						

TUBE	7L.007	5L-007 + 1L-005" VC IMPREGNATION	varnish
CORE	7/8 x 7/8	-24th layers - .007" gap	PRIMARY V.A.
MOUNTING	A		

st white
tap black
fin yellow (TR)

Wire Net = 505
Wire Net = 0.346" (0.355")
0.361" (0.355")



DESIGNED BY G. W.

DATE

Smoothing Choke

STOCK

10 Henries - 10% Tap
 150 D. C. Ma., 200 Ohm.
 2500V Insulation

SPEC. NO. C-525

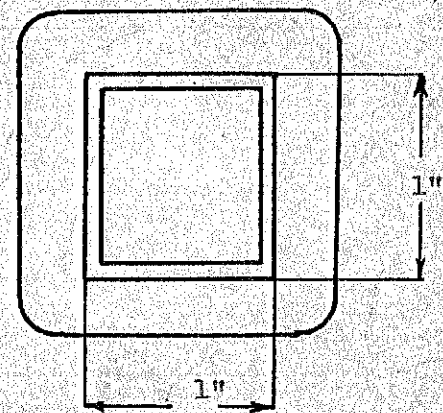
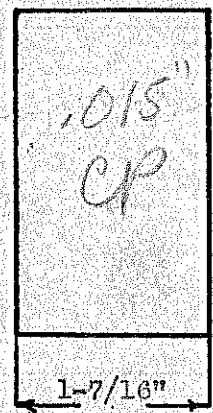
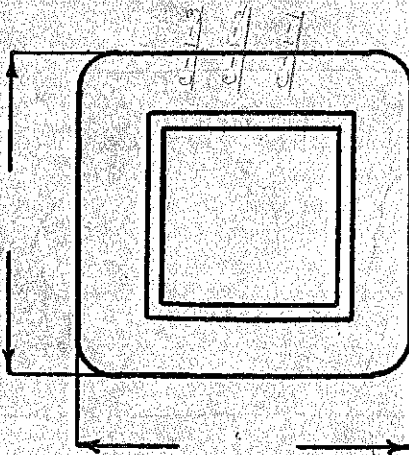
Winding		Primary				
Turns		3680				
Taps		460	(4th Layer)			
Wind. Lgth.		1 1/2"				
Wire Size		31				
T. P. L.		115 - 32L				
Finish Pitch		88%				
Type Lead		#20 Pr. Br. OR Sil. Br.				
Lead Lgth.		9"	3"			
Layer Insul.		20#				
Test Volt.		2500V				
Wrapper		3L .005" GA				

TUBE	7L - .007" G.K	IMPREGNATION	VARNISH
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CORE	1" x 1"	GA.	24	GRADE	D	STACK	BUT .010" Gap
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MOUNTING "A"

10.65 Henries @ 0.02" total gap
 Cu = 530
 Wire Net = 0.375" (0.340")



Re DESIGNED BY HWS

DATE

S C-1-1 White
115V 9MA
T C-1-2 Black
F C-1-3 Yellow

2500V

Saddle:
1 - 10 VC
1 - 10 A

10
 15 Henries - 10% Tap
 150 D. C. Ma. - 175 Ohm - 2500 V. Ins.
 200

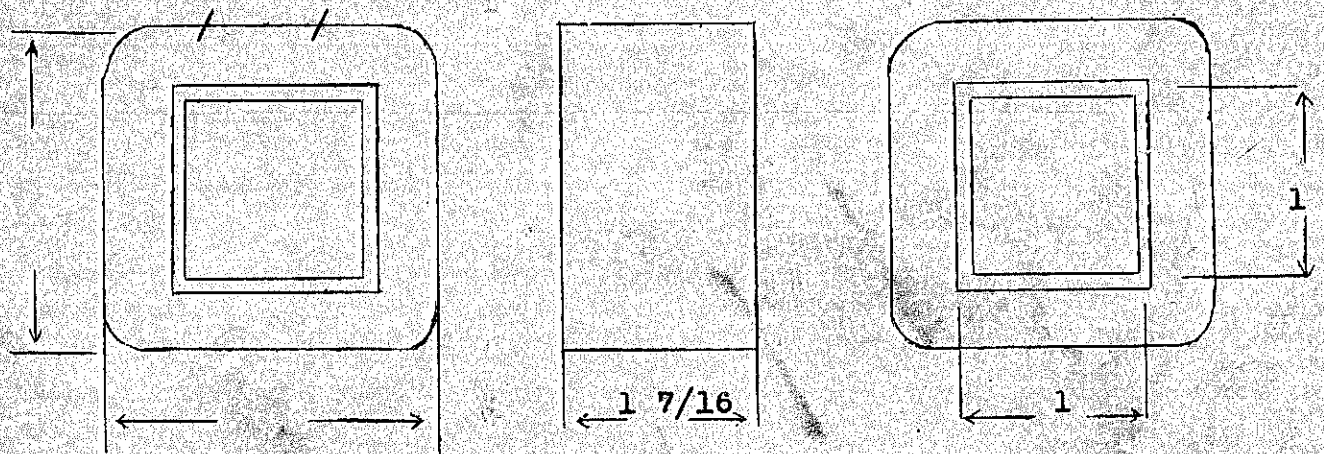
04 D

SPEC. NO. C325

Winding	PRI						
Turns	3680						
Taps	460						
Wind. Lgth.	1 1/4						
Wire Size	31						
T.P.L.	115-32						
Kind Term.	#20 P.Br.	or Sil.Br.					
Term. Lgth.	9"	3"					
Layer Insul.	20#						
Test Volt.	2500						
Wrapper	3L.005GA						

TUBE	7L.007	IMPREGNATION	VARNISH
CORE	1 x 1 - 24 Ga. Dynam. - .010" gap	PRIMARY V.A.	
MOUNTING	A or B		

start - white or Brown



CHOKE

Stock

10 Henries - ~~10%~~ Tap
 150 DC Ma. ohm = 200
 2500 V. Ins.

7 22ohm @ 78F

SPEC. NO. C325

Winding		Pri.					✓
Turns		3680					
Taps		460 - (4th layer)					
Wind. Lgth.		1 1/4					
Wire Size		31					
T. P. L.		115-32L					
Finish Pitch		88%					
Type Lead		#20 Pr. Br. or Silver Braid					
Lead Lgth.		9"		3"			
Layer Insul.		20#					
Test Volt.		2500					
Wrapper		3L .005" GA					

TUBE 7L .007" GK + 14003VG IMPREGNATION Varnish

CORE 1 x 1 GA. 24 GRADE D STACK Butt .010" Gap

MOUNTING * D - Leads

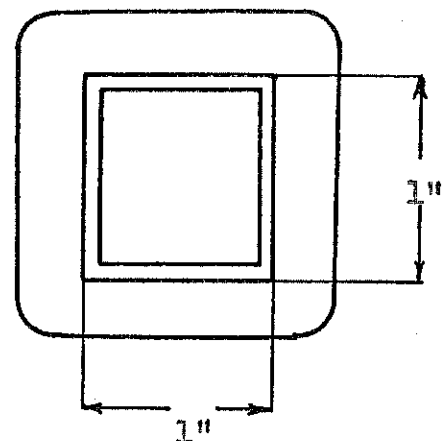
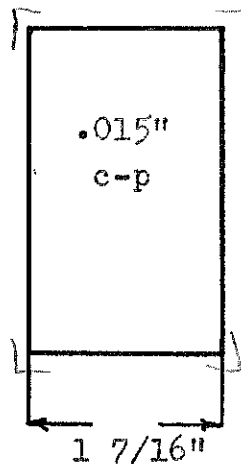
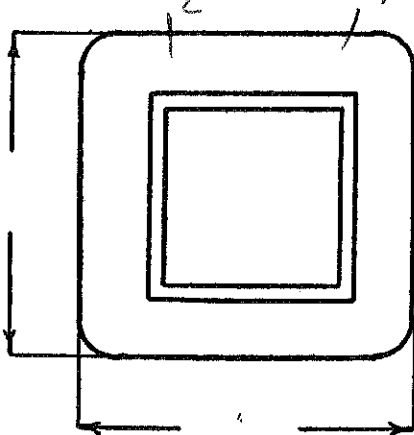
10.65 Henries at 0.02" Total Gap

Cu = 530

Wire Net = 0.375" (0.340")

Window - $.424 / .500 = 84.8\%$

Saddle St. - White
 1- 10 VC Fi. - Black
 1- 10 A T. - Yellow T



DESIGNED BY

G. W.

DATE

5 Henries
 200 Ma. - 85 Ohm. - 3500 V. Ins.

SPEC. NO. C-326

Winding	PRI.					
Turns	2240					
Taps	---					
Wind. Lgth.	1-1/8" = 1.125"					
Wire Size	#29					
T. P. L.	85 - 27 L					
Finish	90%					
Type Lead	#20 Dulac					
Lead Lgth.	9"					
Layer Insul.	30#					
Test Volt.	3500					
Wrapper	1L - .007" VC 2L - .005" GA					

Wind Tightly -

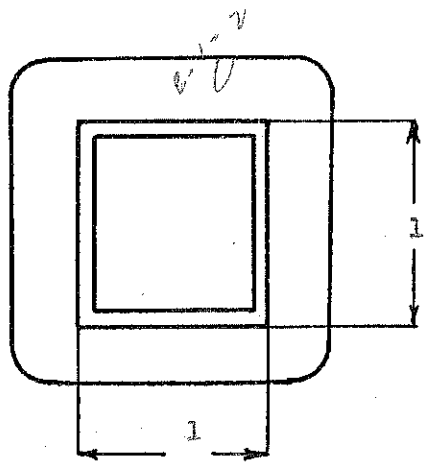
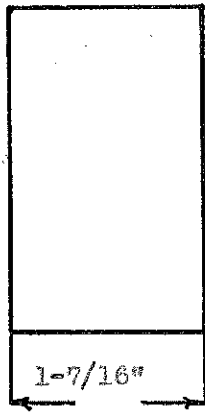
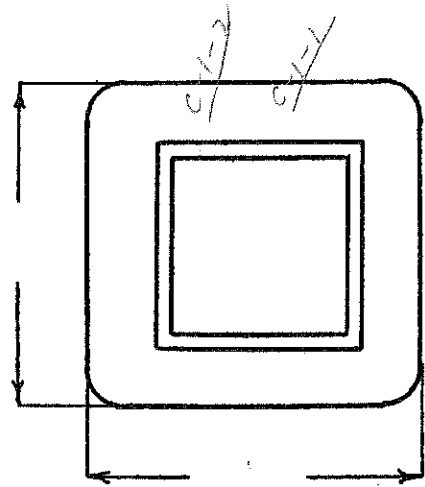
TUBE	6L - .007" / 1L - .007" VC	IMPREGNATION	VARNISH
------	----------------------------	--------------	---------

CORE	1" x 1"	GA.	24	GRADE	D	STACK Butt - .007" Gap
------	---------	-----	----	-------	---	------------------------

MOUNTING	"A"
----------	-----

Wire Net = 0.366" (0.368")
 Cu = 633

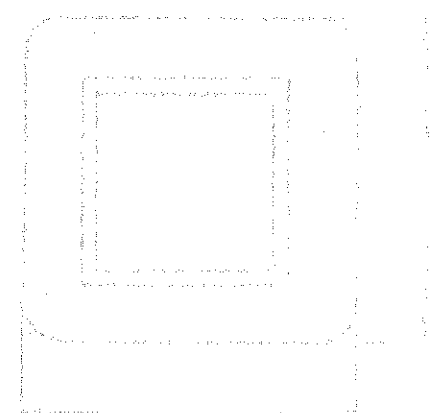
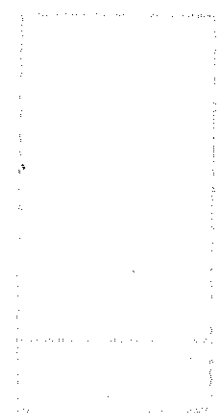
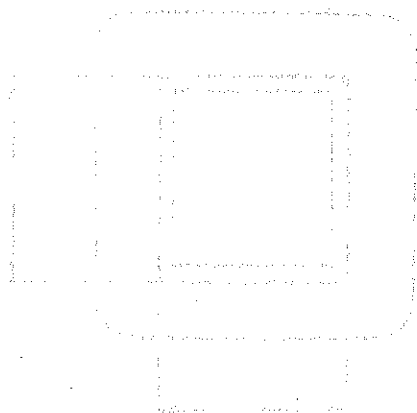
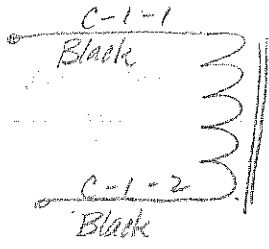
4.38 Henries at 0.016 Total Gap



DESIGNED BY G. W.

DATE 6/3/38

U = 115
Exc = 25 ma



Choke 1670 tags

15 Henries @ 200 Ma.
200 Ohm.

1250 W V

7724

SPEC. NO. G-328
(#7929-A = without cap)

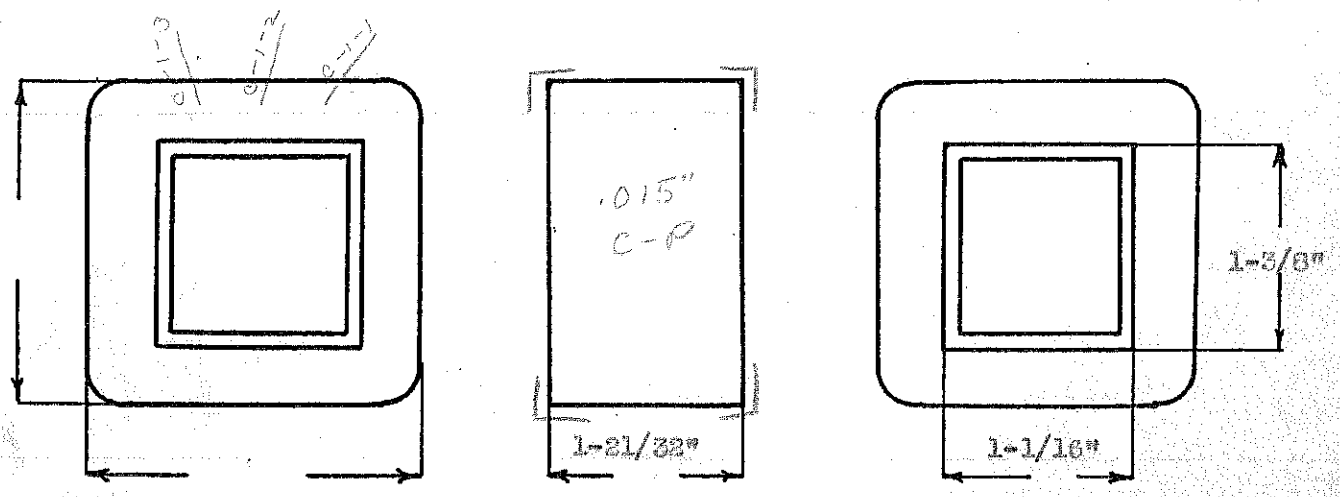
Winding		Choke				
Turns		3350				
Taps		483	4th			
Wind. Lgth.		1-7/16"	= 1.4375"			
Wire Size		#29				
T. P. L.		107 - 36L				
Finistr Pitch		90%	#20 DULAC			
Type Lead		2L	9"			
Lead Lgth.		9"				
Layer Insul.		1L 30/C				
Test Volt.		3500V				
Wrapper		1L - .007" VC 2L - .005" GA				

TUBE 7L - .007" GK / 1L - .005" VC IMPREGNATION VARNISH

CORE 1-1/16" x 1-3/8" GA. 24 GRADE D STACK Butt - .020" Gap

MOUNTING "A" ~~2L~~ = Leads, 9" of #20 Dulac. ~~2L~~ = Leads, 9" of #20 Dulac.

Wire Net = 0.498" (0.490")
Cu = 634 @ 200 Ma.



20 Hours - 10% Tap

See # 1181

200 D. C. Ma. - ~~300~~ Ohm - 3500 V. Ins.
200

SPEC. NO. 0320

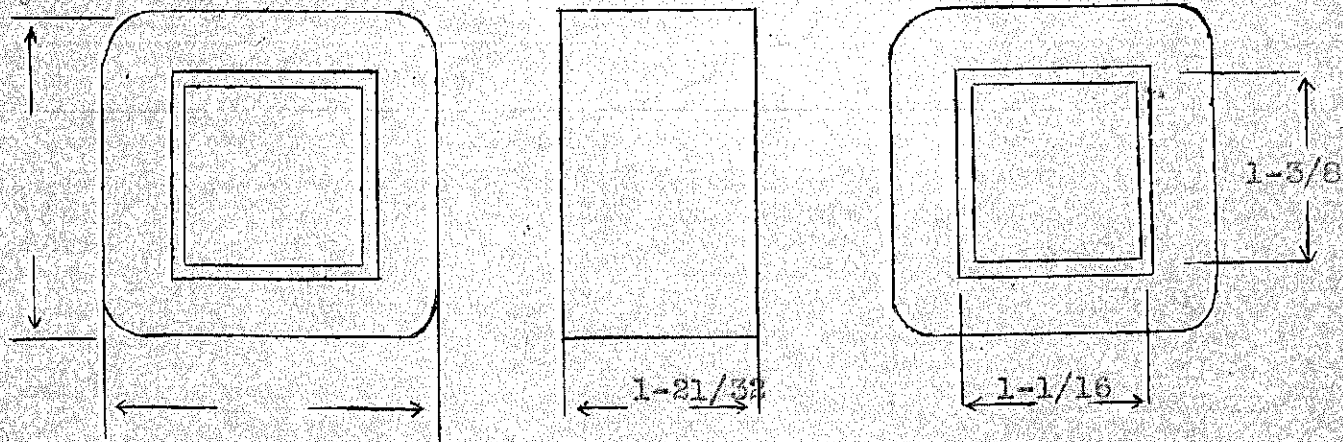
Winding	PRI					
Turns	4000	white				
Taps	3560	black yellow				
Wind. Lgth.	1-7/16					
Wire Size	#29					
T.P.L.	108-38					
Kind Term.	#20 Par. Br.					
Term. Lgth.	9"					
Layer Insul.	30%					
Test Volt.	3560					
Wrapper	2L007VC 2L005CA					

TUBE	7L007 - 1L007VC	IMPREGNATION	VARIABLE
CORE	24 Ga - .020" Gap	PRIMARY V.A.	
MOUNTING	A or B		

end of winding is electrical start

18.75% at 0.0304 6.71

start - white
tap - black
finish - yellow



DESIGNED BY G. W.

DATE 5/16/38

Smoothing Choke

S T O C K

15 Henries @ 325 Ma.
Ten Per Cent Tap
125 Ohm D. C. Resistance

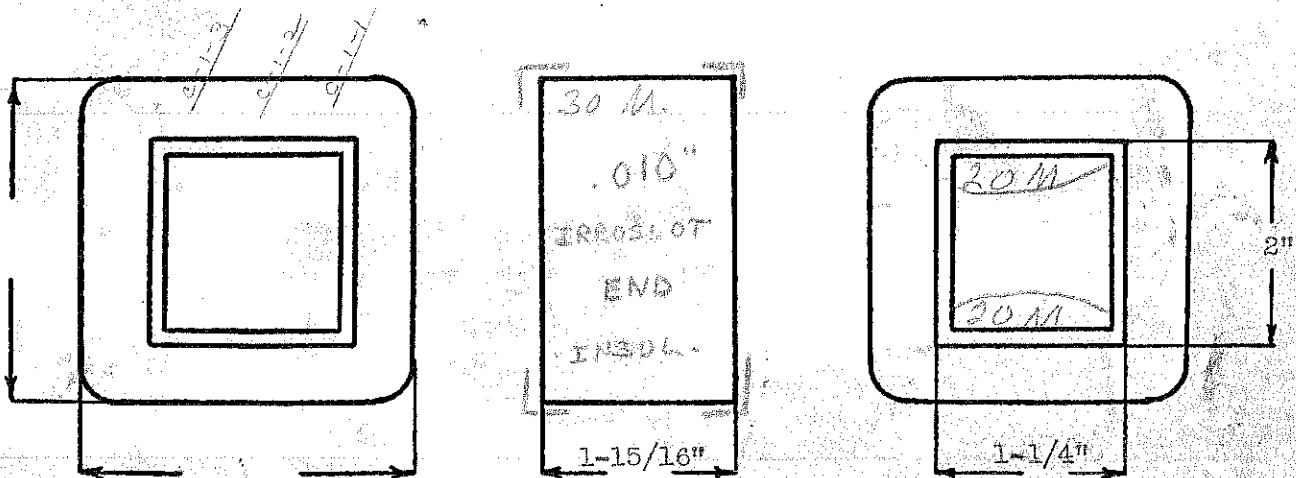
SPEC. NO. C-529

Winding		Choke				
Turns		2720				
Taps		340	4th Layer			
Wind. Lgth.		1-7/16"				
Wire Size		#27				
T. P. L.		85 - 32L				
Finish Pitch		90%				
Type Lead		Sil. Br.				
Lead Lgth.		6"				
Layer Insul.		1L 30#				
Test Volt.		7500V				
Wrapper		3L 007 VC 2L 005 GA				

TUBE 7L - .007" GK / 2L .007" VC IMPREGNATION VARNISH
CORE 1-1/4" x 2" E & I GA. 24 GRADE D STACK Butt - .015" Gap

MOUNTING "F" ("A" Mtg. - Dulac Leads, 11")

Cu = 618
Wire Net = .0560" (0.535")



DESIGNED BY GW

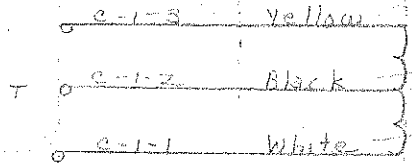
DATE 7-11-39

#C-329-F

TEST:

115V.

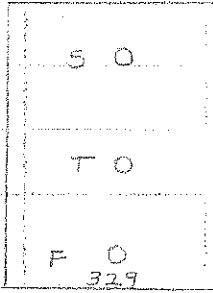
93012 HA.



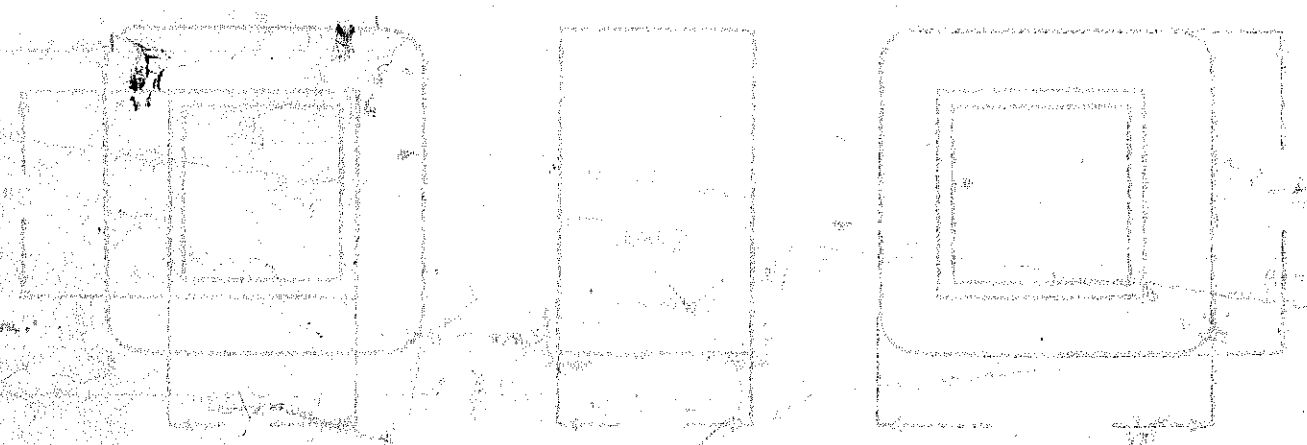
GREEN SELV. OVER BLACK

BLACK SELV. OVER BLACK

YELLOW SELV. OVER BLACK



Stamp Panels as Shown



DATE

RECORDED BY

Smoothing Choke

STOCK

15 Henries - 10% Tap
 250 Ma. - 5000V Insulation
 150 Ohm

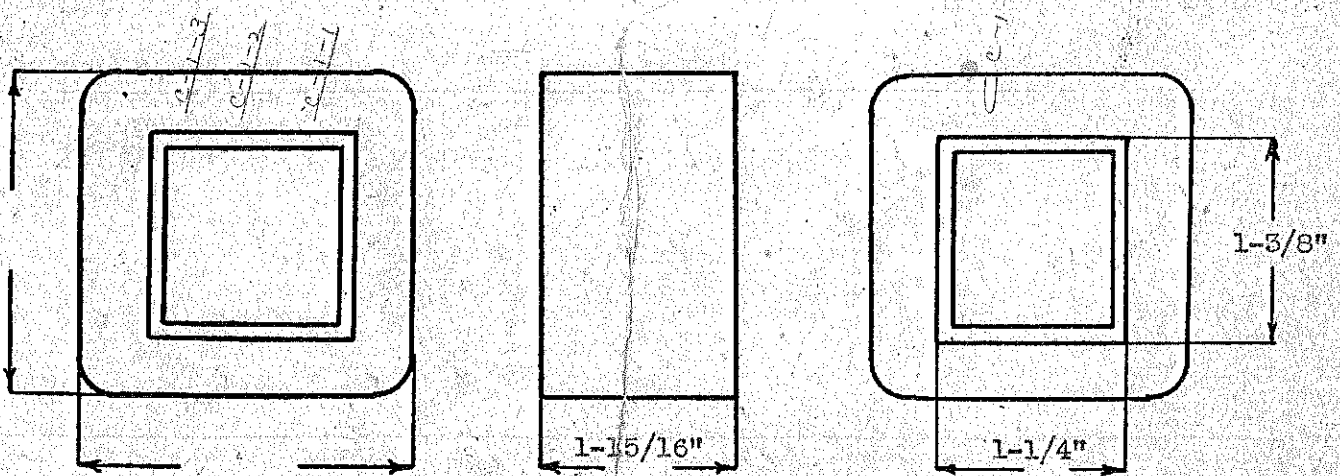
SPEC. NO. C-550

Winding		Choke				
Turns		3700				
Taps		3300 - 33rd Layer				
Wind. Lgth.		1 1/2"				
Wire Size		#28				
T. P. L.		100 - 37L				
Finish Pitch		90%				
Type Lead		51L BR. (Irrolite Tubing)				
Lead Lgth.		6"				
Layer Insul.		1L 30%G				
Test Volt.		5000V				
Wrapper		2L - .007" VC 2L - .005" GA				
TUBE		7L - .007" GK / 2L - .007" VC	IMPREGNATION		VARNISH	
CORE	1 1/4" x 1-3/8"	GA.	24	GRADE	STACK	.020" Gap
MOUNTING	"I"					

Cu = 640

Wire Net = 0.562" (0.555")

Keep start and tap away from corners.



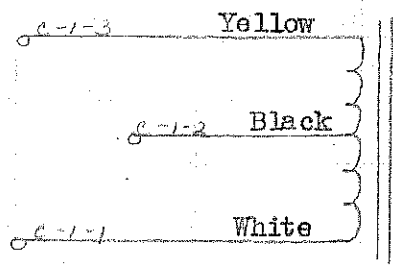
DESIGNED BY GW

OVER

DATE 6-3-38
 (Copied - 7-29-42)

Handwritten notes in the top left corner, possibly including "used #2" and "used #3".

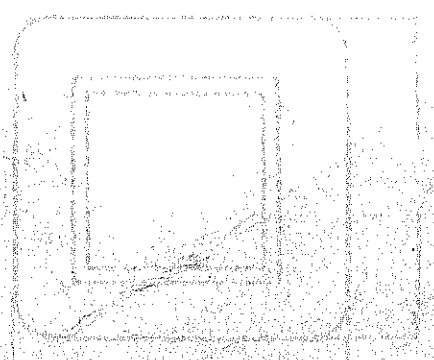
#C-330



#2 - .0025 F
#3 - F - 70

OK F MOUNTING STAMP PANELS AS SHOWN

OF
OT
OS
330



Smoothing Choke

S T O C K

15 Henries - 10% Tap
 250 Ma. - 5000V Insulation
 150 Ohm

SPEC. NO. C-530-F

Winding		Choke				
Turns		3700				
Taps		3300	33rd Layer			
Wind. Lgth.		1-1/2"				
Wire Size		#28				
T. P. L.		100 - 37L				
Finish Pitch		90%				
Type Lead		Sil. Br.	- Irradite Tubing			
Lead Lgth.		6"				
Layer Insul.		1L 30#G				
Test Volt.		5000V				
Wrapper		2L 007 VC 2L 005 GA				

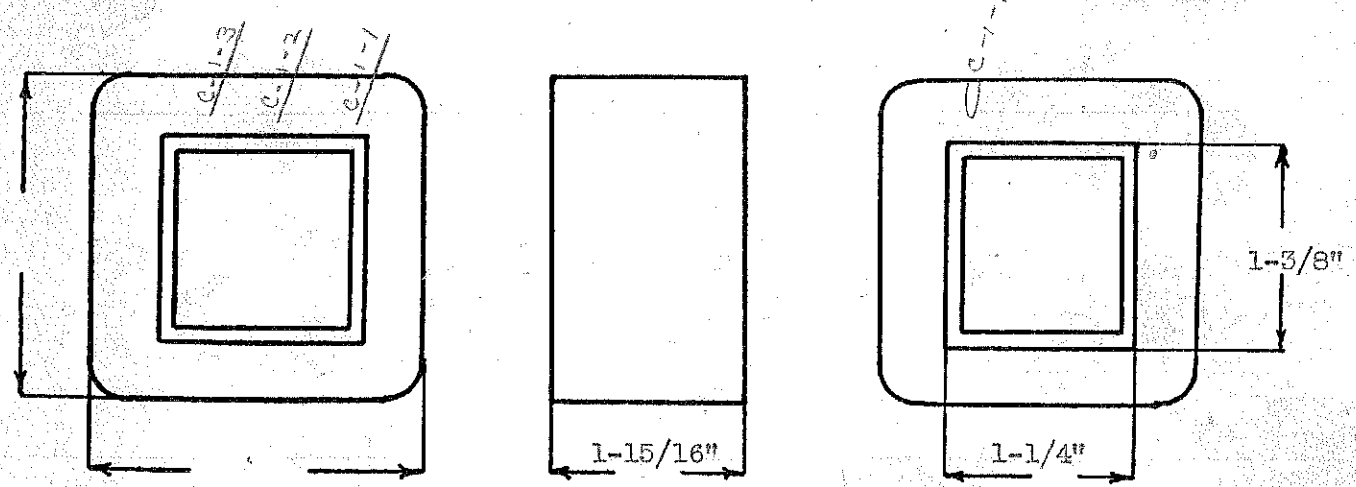
TUBE	7L - .007" GK / 2L - .007" VC	IMPREGNATION	VAHNSH
------	-------------------------------	--------------	--------

CORE	1-1/4" x 1-3/8"	GA.	24	GRADE	STACK	.020" Gap
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MOUNTING

Keep start and tap away from corners.

Cu = 640
 Wire Net = 0.562" (0.555")

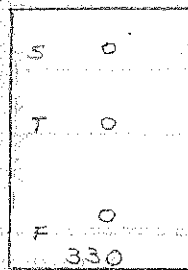
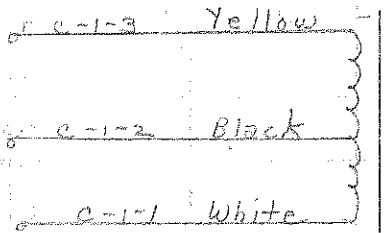


DESIGNED BY GW

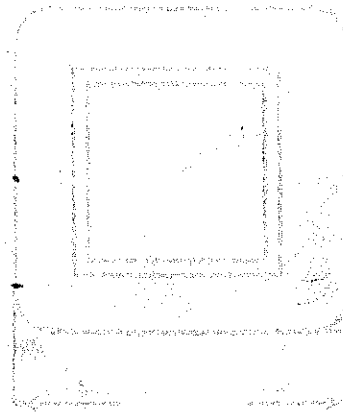
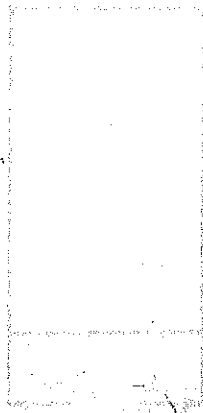
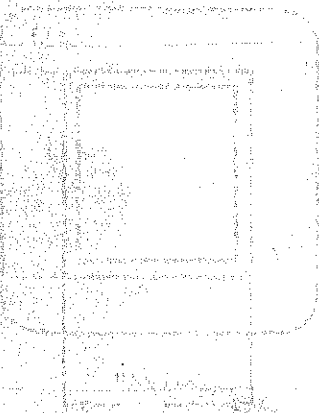
DATE 6-3-38

3-16-43 - mm

#C-330-F



STAMP PANELS AS SHOWN ABOVE



CHOKE

STACK

15H @ 375 MA

10% TAP

7500V. INS.

R = 125Ω

SPEC. NO. **C-331**

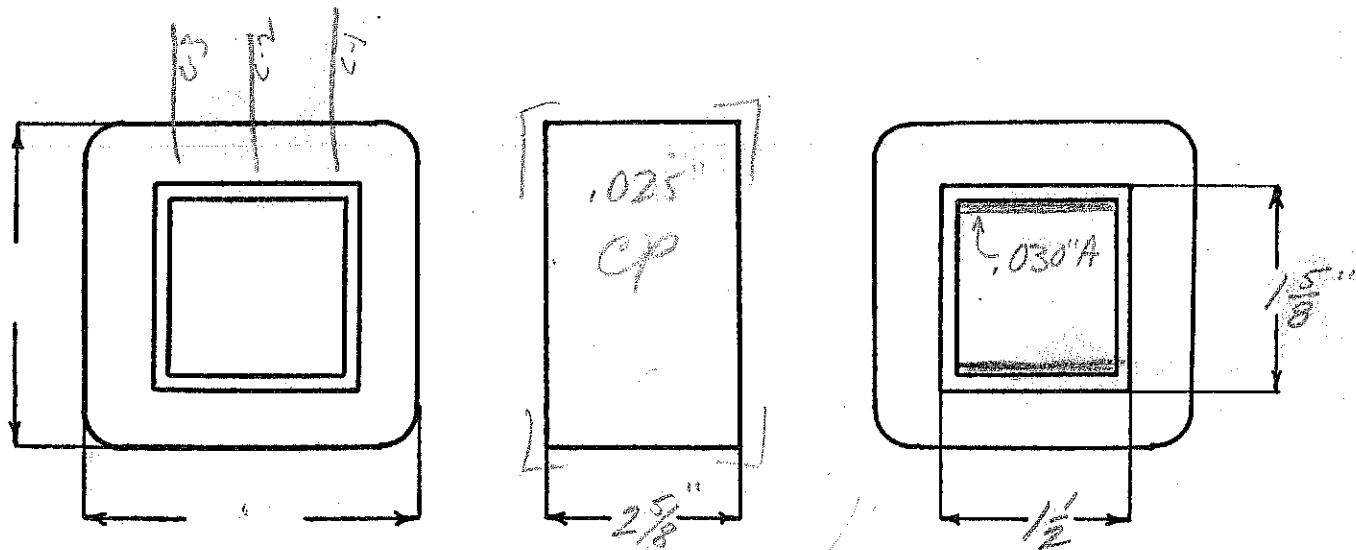
Winding		CHOKE					
Turns		4240					
Taps		3816 - 36 th L.					
Wind. Lgth.		2"					
Wire Size		#26					
T. P. L.		106-40L					
Finish		90%					
Type Lead		WO. + VIMP. 52V					
Lead Lgth.		6"					
Layer Insul.		1-L 40-46.6					
Test Volt.		7500V.					
Wrapper		2-L. 007" VC 2-L. 007" GA					

TUBE	10-L. 007" GR + 2-L. 007" VC	IMPREGNATION	VARNISH
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CORE	1/2" x 1/2"	GA.	24	GRADE	D	STACK	BUTT - .030" GAP
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MOUNTING "G"

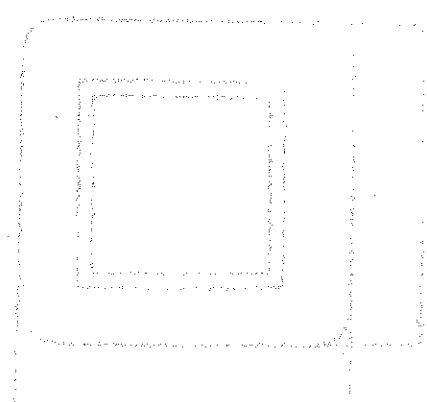
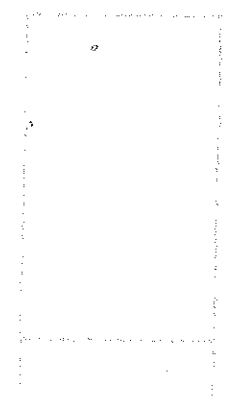
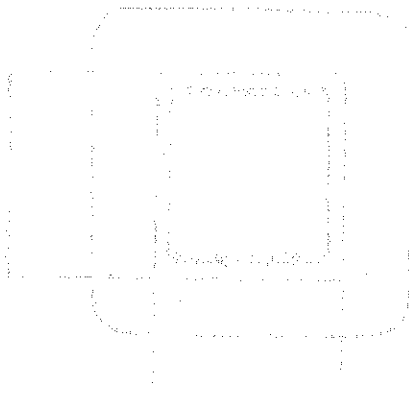
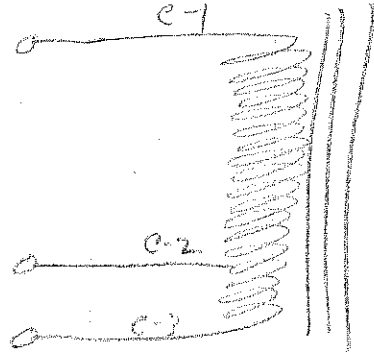
Cu. = 678
 WN = .755 (.764)



DESIGNED BY *H.H.H.*

DATE 7/20/43

C-331



CHOKE

15H @ 375VA
10% TAP
7500V. INS.
R=100Ω

STOCK

SPEC. NO. C-331

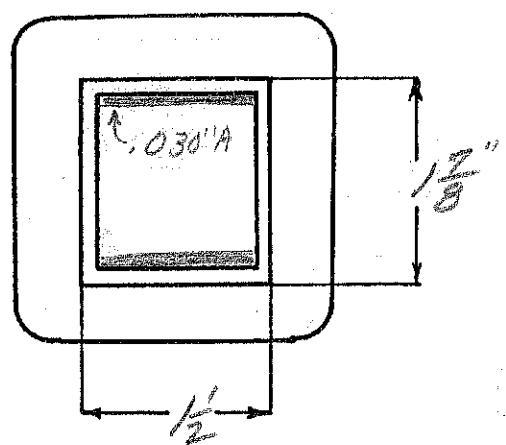
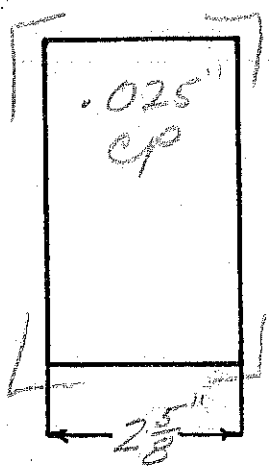
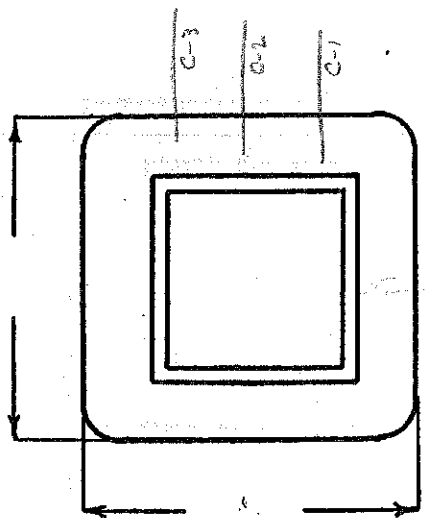
Winding		CHOKE				
Turns		3420				
Taps		3040	-32L			
Wind. Lgth.		2"				
Wire Size		#25				
T. P. L.		95-36L				
Finish		90%				
Type Lead		W.O. + VINYL. SLV.				
Lead Lgth.		6"				
Layer Insul.		1-L 40-66.6				
Test Volt.		7500V.				
Wrapper		2-L .007"VC 2-L .007"6A				

TUBE 10-L .007"6K + 2-L .007"VC IMPREGNATION VARNISH
CORE 1/2 x 1 7/8 F+I GA. 24 GRADE D STACK BUTT -.025" GAP

MOUNTING "G"

Cu = 855
WN = 755 (760)

FINISHERS: PUT VINYLITE TUBING OVER ALL LEADS. RUN THE TUBING IN TO THE ANCHORS.

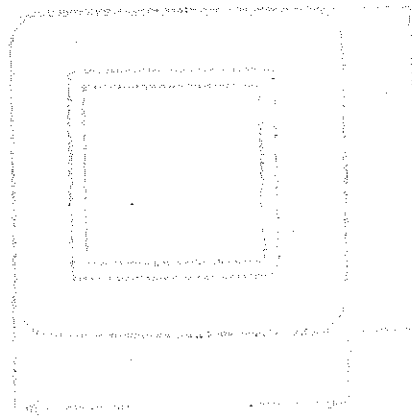
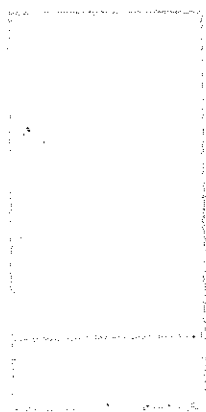
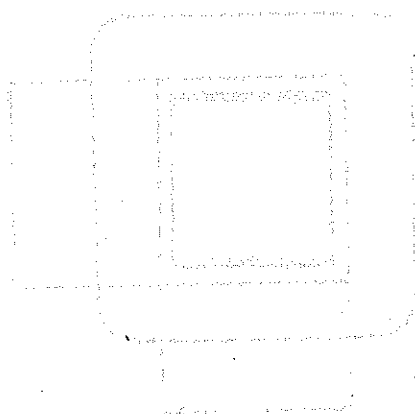
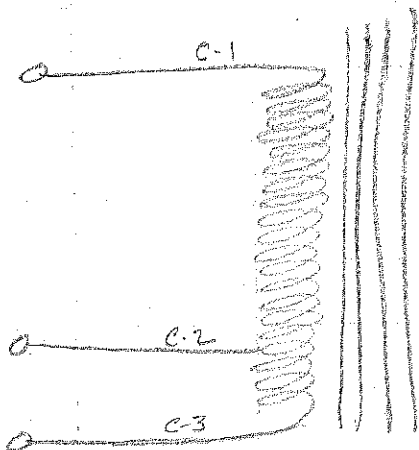


DESIGNED BY

DATE

C-331

12
75
100



CHOKE

STOCK

15H @ 375MA
WITH 10% TAP
7500V. INSULATION
100Ω RESISTANCE

SPEC. NO. C-381

Winding	CHOKE						
Turns	2290						
Taps	1998 - 27th Layer						
Wind. Lgth.	1 3/8"						
Wire Size	#26						
T. P. L.	74-31L						
Finish	91%						
Type Lead	W.O. + VINYL. SLV.						
Lead Lgth.	4"						
Layer Insul.	1-L 30-L6.6						
Test Volt.	7500V.						
Wrapper	2-L.007"VC 2L.007"GA						

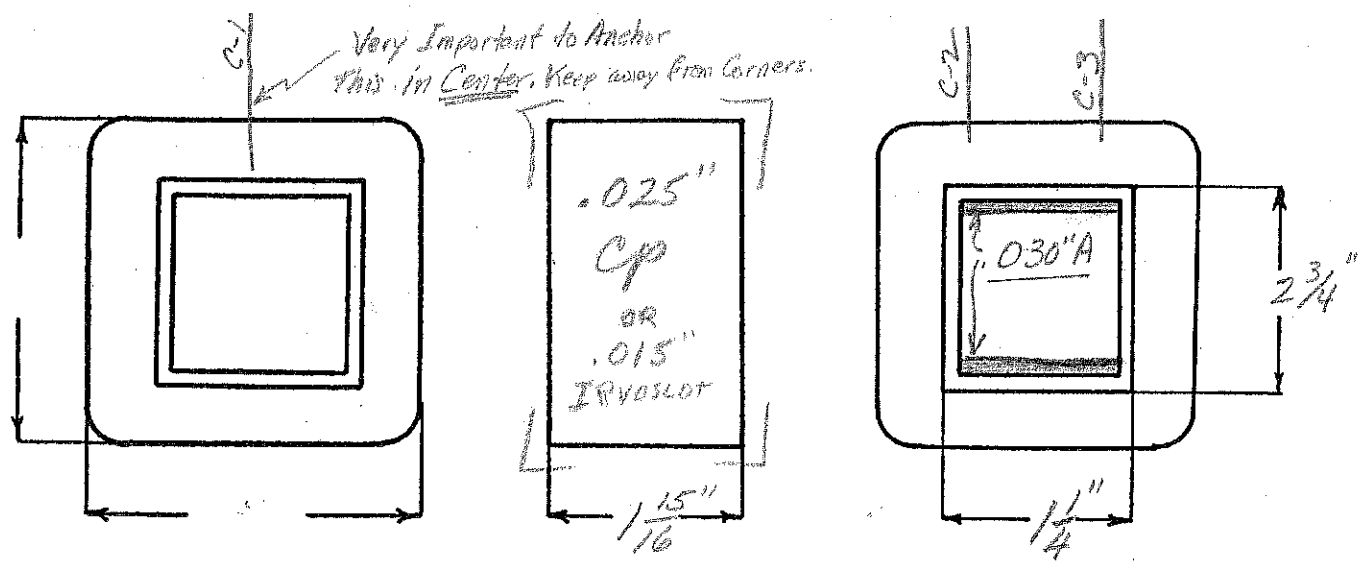
TUBE	7-L.007"6K+2-L.007"VC	IMPREGNATION	VARNISH
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CORE	1/4 x 2 3/4 E+I	GA.	24	GRADE	D	STACK BUTT	.015" GAP
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MOUNTING "F"

Cu = 678
WN = .560 (.570)

FINISHERS: PUT VINYLITE TUBING OVER ALL LEADS, RUNNING IT IN TO THE ANCHORS.



DESIGNED BY

DATE

15 Henries - 375 D.C. Ma.
 10% Tap - 100 ohm
 7500 V. Ins.

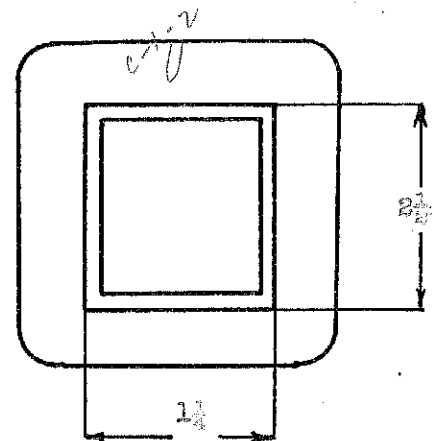
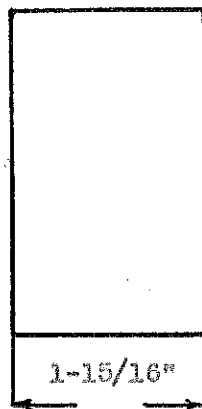
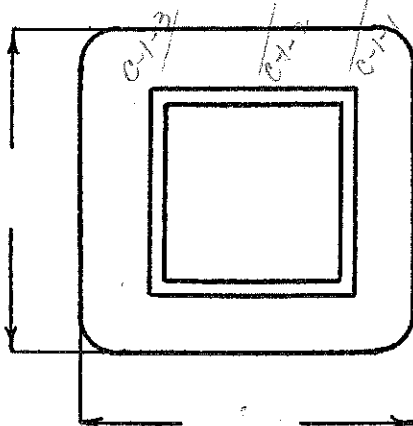
SPEC. NO. C-331

Winding	PRI.						
Turns	2400	2400					
Taps	2160	2160	27th Layer				
Wind. Lgth.	1 1/2"	1 1/2"					
Wire Size	#28						
T. P. L.	80 - 30						
Finish Pitch	90%						
Type Lead	W.O. + V.C. Sleeve						
Lead Lgth.	4"						
Layer Insul.	50#						
Test Volt.	7500V						
Wrapper	3L - .007" VC 2L - .007" GA						
TUBE	7L - .007" GK / 3L - .007" VC			IMPREGNATION		VARNISH	
CORE	1 1/4" x 2 1/2"	GA.	24	GRADE	D	STACK	0.015" Gap
MOUNTING	2 1/2" x 2 1/2"						

Wire Net = 0.553" (0.552")
 Cu = 678

9.1 Henries at .0337" Total Gap

(End of winding is electrical start.
 Keep start and tap away from corners.)



DESIGNED BY J.C.G.

DATE 4-7-39

C-331

F S Yellow
C-1-3

T Black
C-1-2

S T White
C-1-1

S	0
T	0
F	0 331

STAMP PANELS AS SHOWN ABOVE

ADDITIONAL

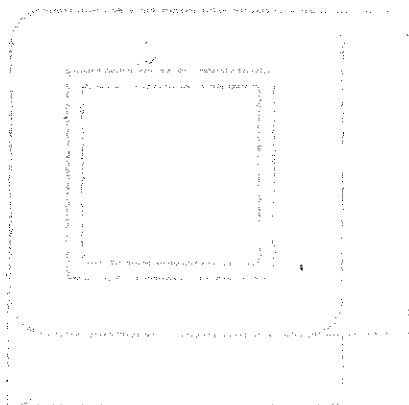
ADAGE

SOAR

TO

WON

ORIGIN



ORIGIN

Smoothing Choke

15 Henry @ 500 Ma.
90 Ohm
7500V Insulation

SPEC. NO. 0-332

Winding		Choke				
Turns		3200				
Taps		-				
Wind. Lgth.		2"				
Wire Size		#25				
T. P. L.		98 - 34L				
Finish Pitch		90%				
Type Lead		W.O. / V.O. Sleevings				
Lead Lgth.		6"				
Layer Insul.		2L 30/G				
Test Volt.		7500V				
Wrapper		2L .007" VC 2L .005" GA				

TUBE	2L .007" GK / 2L .007" VC	IMPREGNATION	VARNISH
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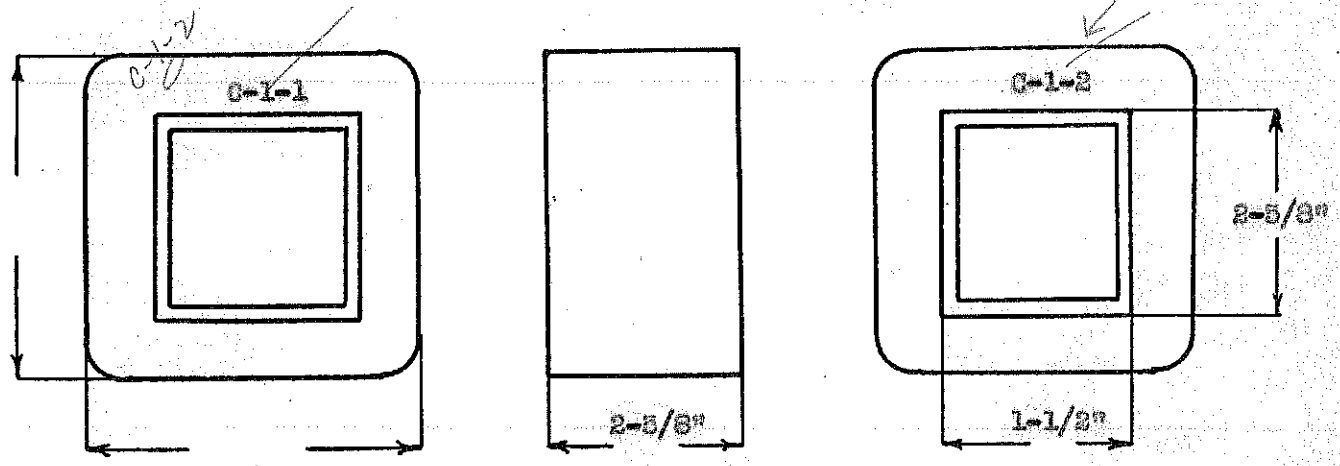
CORE	1 1/2" x 2-5/8" E & I GA.	24	GRADE	D	STACK	butt 0.03" gap
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MOUNTING "g" - Stand off Insulators

Cu = 640

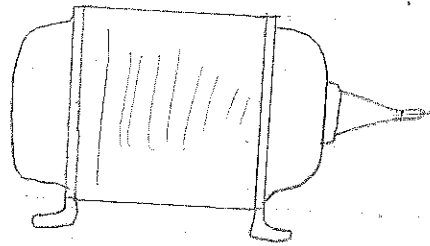
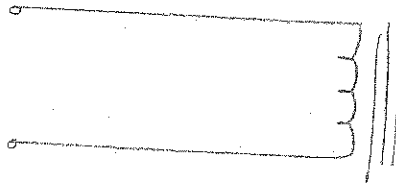
Wire Net = 0.765" (0.745")

Note: Finish across on to mica saddle as shown



Re-DESIGNED BY HWS

DATE 1-23-42



Stand Off

15H-500MA - 90 Ω - 7500V *low*

SPEC. NO. 03326

Winding	P					
Turns	3200					
Taps	—					
Wind. Lgth.	2"					
Wire Size	#25					
T.P.L.	95-34	90°				
Kind Term.	W.D.					
Term. Lgth.	6"					
Layer Insul.	30#					
Test Volt.	7500					
Wrapper	2005GA					

TUBE | 19L007 + 2L007WC | IMPREGNATION | Varnish

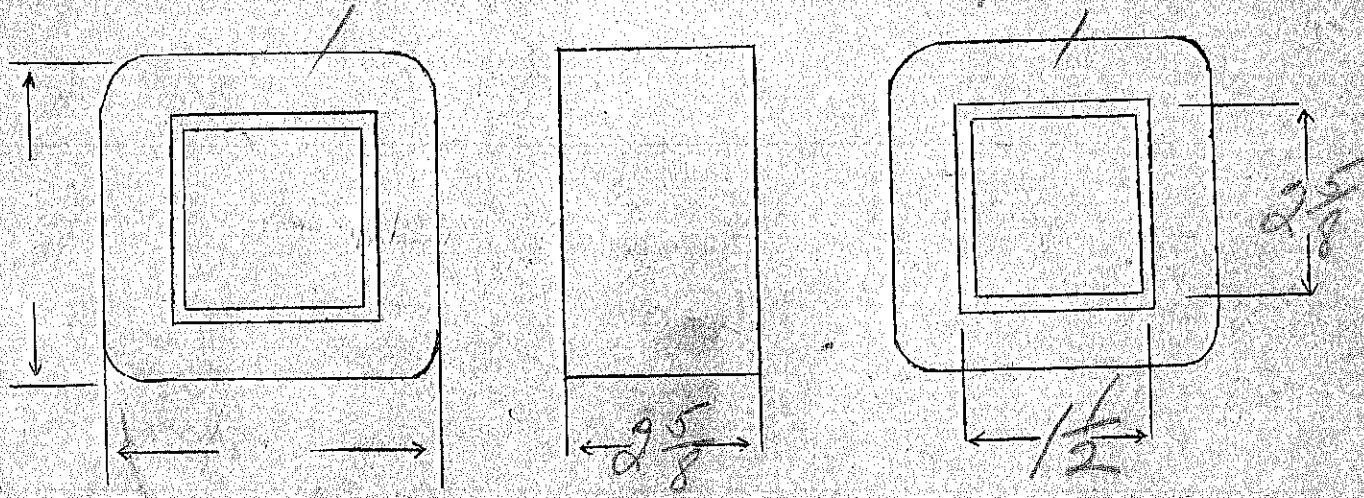
CORE | 24/28 - .030" gap | PRIMARY V.A.

MOUNTING | G - Stand-off insulators

13.5h at 0.06" total gap

$l_w = 6.45$
Wire Net = 0.753" (0.745")

finish across



DESIGNED BY *GW*

DATE *6/8/38*

15% - 10% tap
 500Ma - 100 Ω 90°
 10000 V. insulation

OLD

SPEC. NO. C333

Winding	Pri						
Turns	2950	2890					
Taps	340	27th layer					
Wind. Lgth.	1 3/4	✓					
Wire Size	#25						
T. P. L.	85-34						
Finish	92%						
Type Lead	Dulac	Stack lead in coil					
Lead Lgth.	6"						
Layer Insul.	Double 30#						
Test Volt.	10000						
Wrapper	5L007VC 2L007GA						

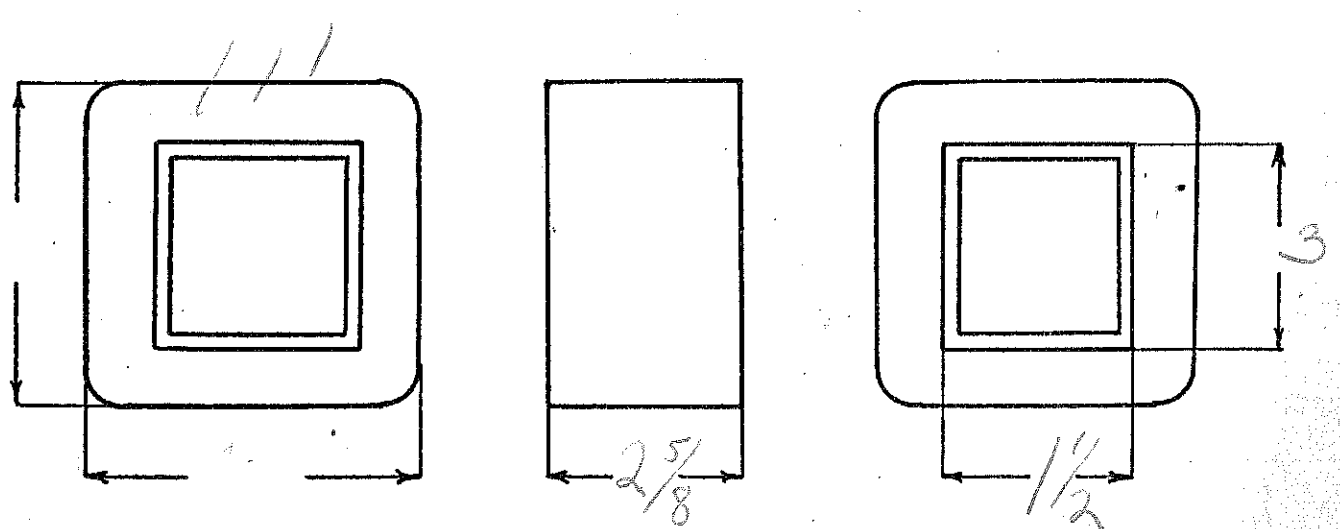
TUBE 9L007 GK + 4L007VC IMPREGNATION Varnish

CORE 1/2 x 3 GA. 24 GRADE D STACK Built 0.030"

MOUNTING G.

$C_0 = 640$
 Wire Net = 0.729" (0.745")

Note: Remove 2L-007VC from wrapper & 1L-007VC from tube.



DESIGNED BY G.W.

DATE 7-11-39

10 Henries @ 650 ma.
 10,000 V. Insulation
 Working voltage 4500 - 75 Ω D.C. Res.

Old
 Stock

Same as C-334
 except for gap
 OLD

SPEC. NO. C-334

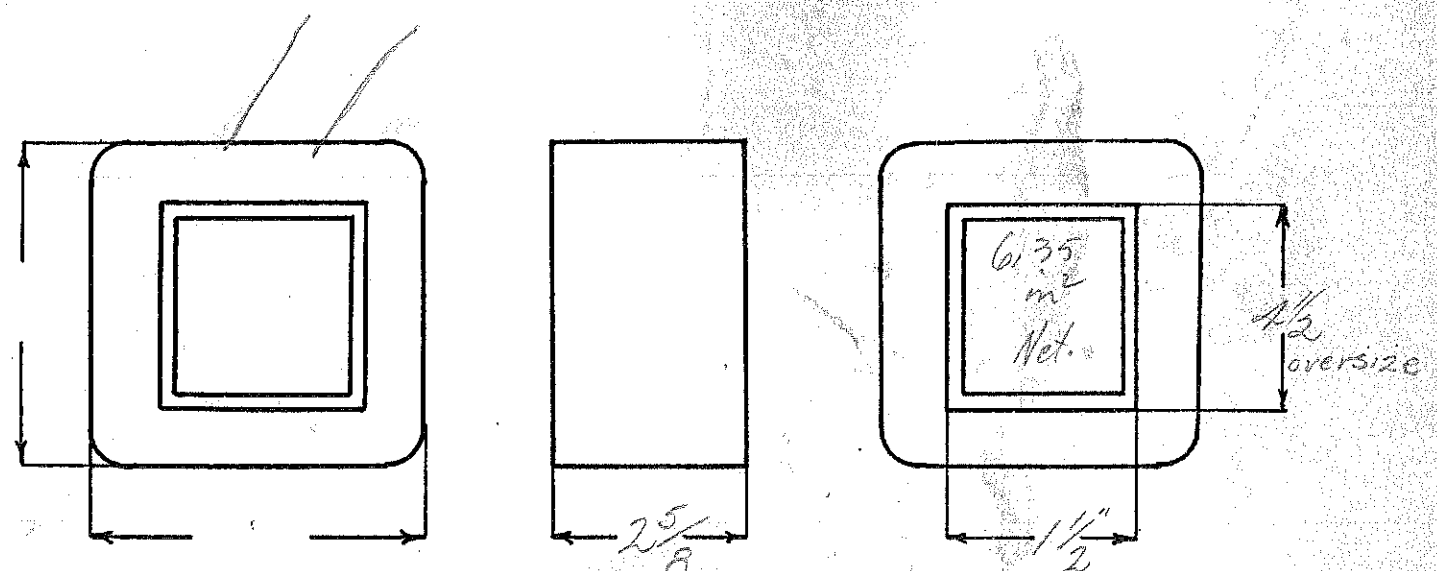
Winding	Pri					
Turns	2160					
Taps	—					
Wind. Lgth.	1 3/4"					
Wire Size	#24					
T. P. L.	72.-30					
Finish						
Type Lead	* —	Start lead in coil - 6" Dislac. Start & Finish				
Lead Lgth.	6"					
Layer Insul.	D-40"					
Test Volt.	10,000					
Wrapper	5L007VC 7L007GA					

TUBE 9L007 K + 4L007 VC IMPREGNATION Varnish

CORE 1 1/2 x 4 1/2 GA. 24 GRADE D STACK Butt .030" gap

MOUNTING "G" Stand off Insulators

CU = 10.8
 Wire Net = 54.7 @ 60w



DESIGNED BY

DATE

5 Henries @ 100 Ma. D. C.

200 Ohm D. C. Resistance

Smoothing Choke

SPEC. NO. C-335

Winding	Primary					
Turns	3050					
Taps						
Wind. Lgth.	27/32" = 0.844"					
Wire Size	#33					
T. P. L.	99 - 31L					
Finish Pitch	90%					
Type Lead	Sil. Br.					
Lead Lgth.	3"					
Layer Insul.	20#					
Test Volt.	2500 V					
Wrapper	3L .005" GA					

TUBE	4L-010 + 1L00204 6L - .007" GK	IMPREGNATION	VARNISH - Lamination
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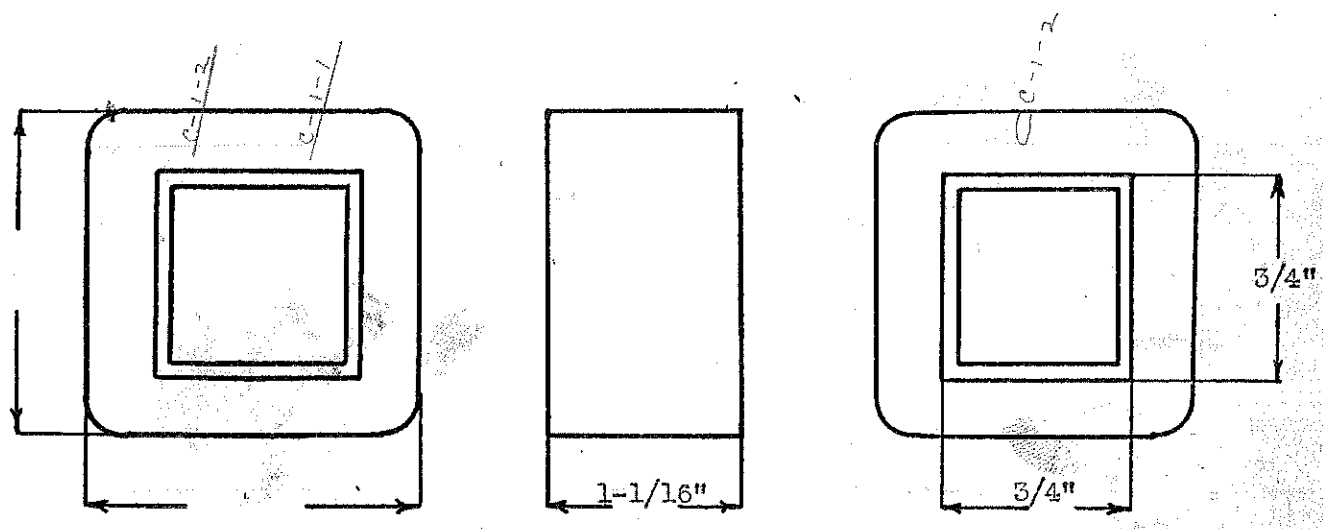
CORE	3/4" x 3/4"	GA.	24	GRADE	D	STACK	.010" Gap
------	-------------	-----	----	-------	---	-------	-----------

MOUNTING D-3

Wire Net = 0.283" (0.270")

6.48 Henries @ .011 Total Gap

Cu = 500



DESIGNED BY

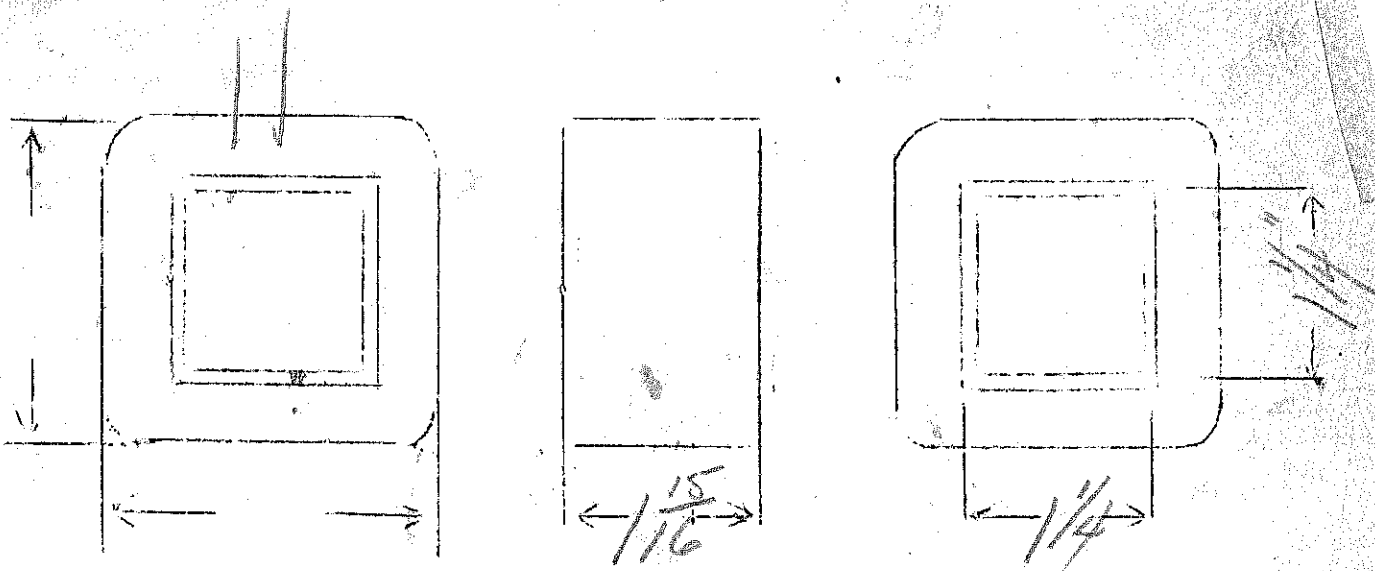
DATE 6-18-38

Choke
 10H 250ma
 70 ohms

SPEC. NO. 34

Winding							
Turns	2880						
Taps	NONE						
Wind. Lgth.	1.8						
Wire Size	26E						
T.P.L.	90						
Kind Term.	WIRE ONLY						
Term. Lgth.	3"						
Layer Insul.	5060						
Wrapper	210056A						

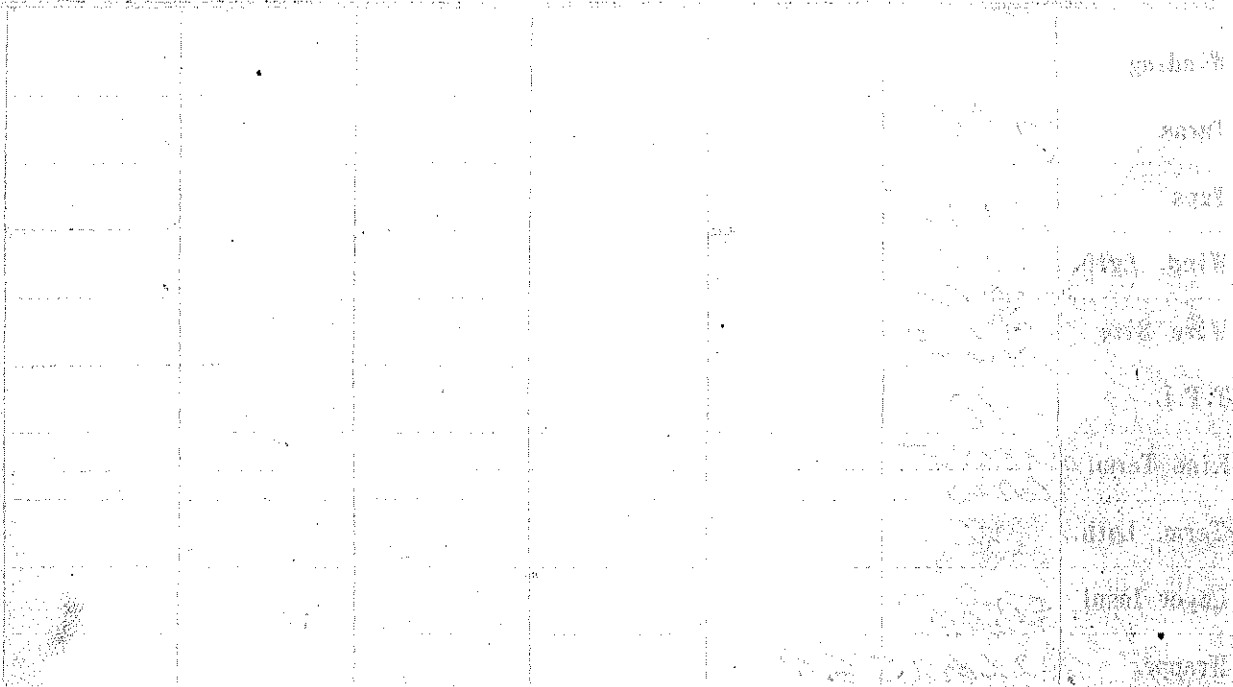
TUBE	7L 207	IMPREGNATION	VARNISH
CURE	1/4 X 1/4 (2X 3/4 HURDON)	GAP = 0.20	



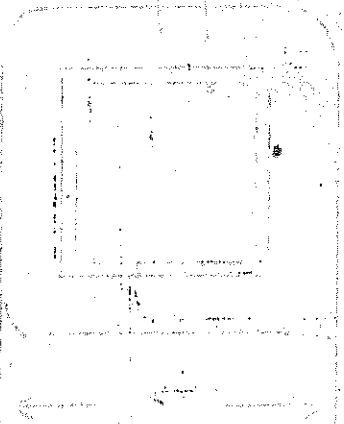
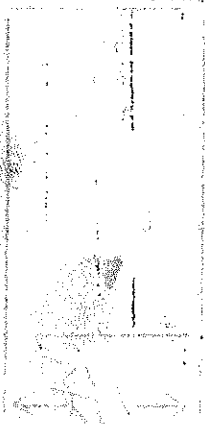
OVER.

Saddle - .010 Armite
.007" V.C.

Lead .005 Armite
.008 V.C.



INTEGRATION



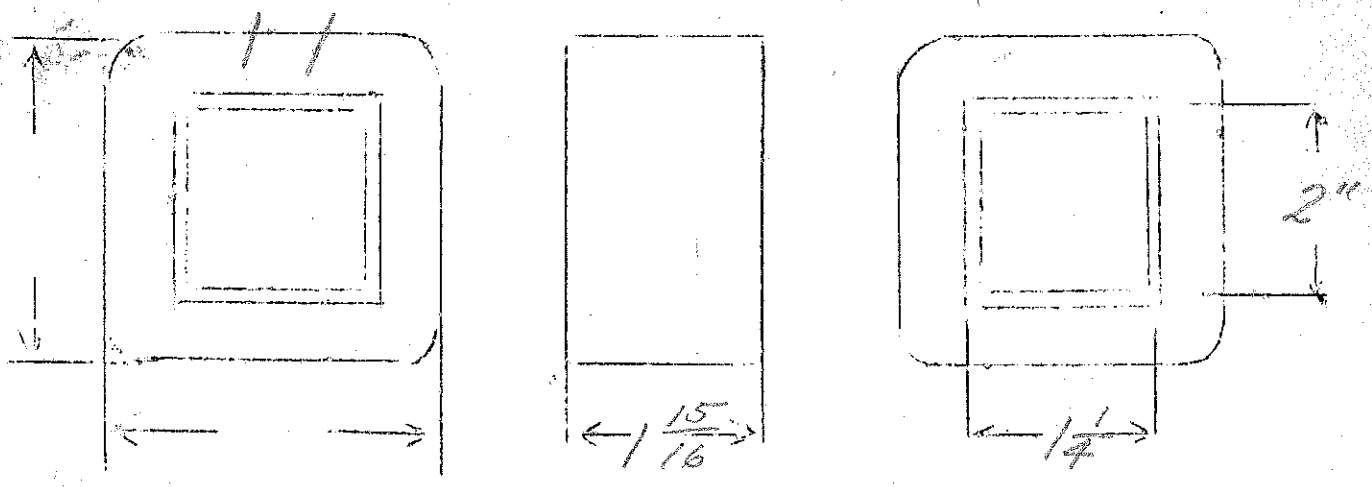
20 HENRIES - 400 Ma.

SPEC. NO. 342

Winding	PR1						
Turns	3160 3060						
Taps	NONE						
Wind. Lgth.	$\frac{5}{8}$						
Wire Size	#26E						
T.P.L.	90-34						
Kind Term.	^B WIRE	^A P.BR					
Term. Lgth.	3"	9"					
Layer Insul.	30# 90						
Wrapper	12007V 310076A						

TUBE | 7L007-HILWONC | IMPREGNATION | VARNISH

CURE | $1\frac{1}{2} \times 2$ " - BUTT JOINT STACK - GAP = .030"



CHOKE

STOCK

20 Hy @ 50 Ma.

620 ohms

ATAD TEST QMA M01020

750 volts working

SPEC. NO. 6343

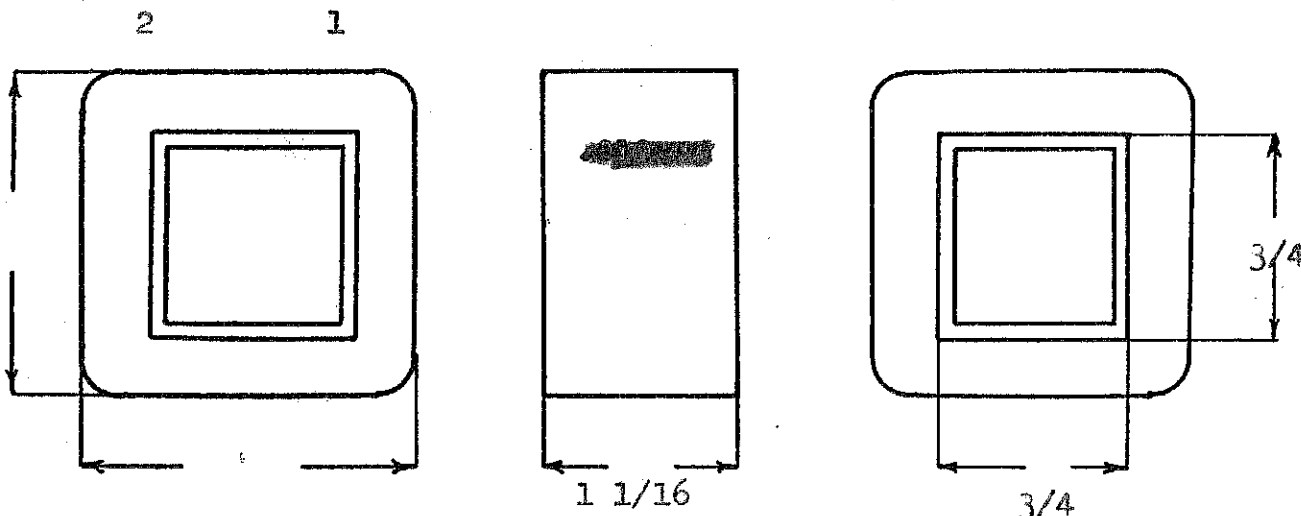
Winding		choke				
Turns		5200				
Taps		--				
Wind. Lgth.		7/8				
Wire Size		#35				
T. P. L.		130-40L				
Finish		91%				
Type Lead		Silver Braid				
Lead Lgth.		3"				
Layer Insul.		20#				
Test Volt.		2500				
		.255				
Wrapper						

TUBE 5L007GK + 14003UG IMPREGNATION Varnish

CORE 3/4 x 3/4 GA. 24 GRADE D STACK Butt .010 Gap

MOUNTING D - Lugs

T.P.V. -
 window - $1338/1375 = 90.2\%$



DESIGNED BY

Re-written
 E. Frazer

DATE

3/4

DESIGN AND TEST DATA

Rating:

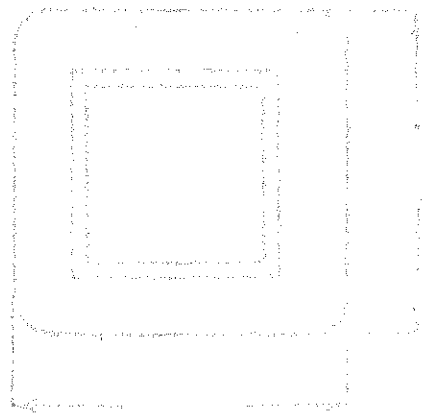
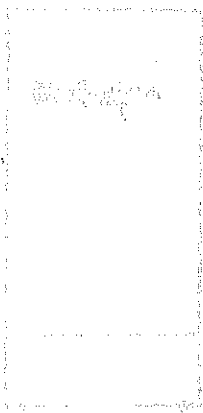
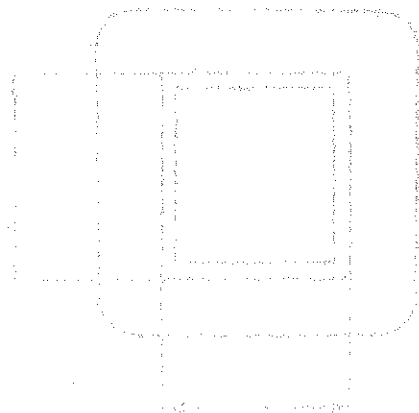
Winding		choke					
Mean Turn		432					
Resistance 25° c		627					
Pounds Copper		.183					
Copper Density		631					
Ratio Volts							
Test to Ground		2500					

Iron Induction @ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on

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

Remarks:



CHOKE

STOCK

20 Hy @ 50 Ma.

620 ohms

AT&T TEST CHA MODEL

750 volts working

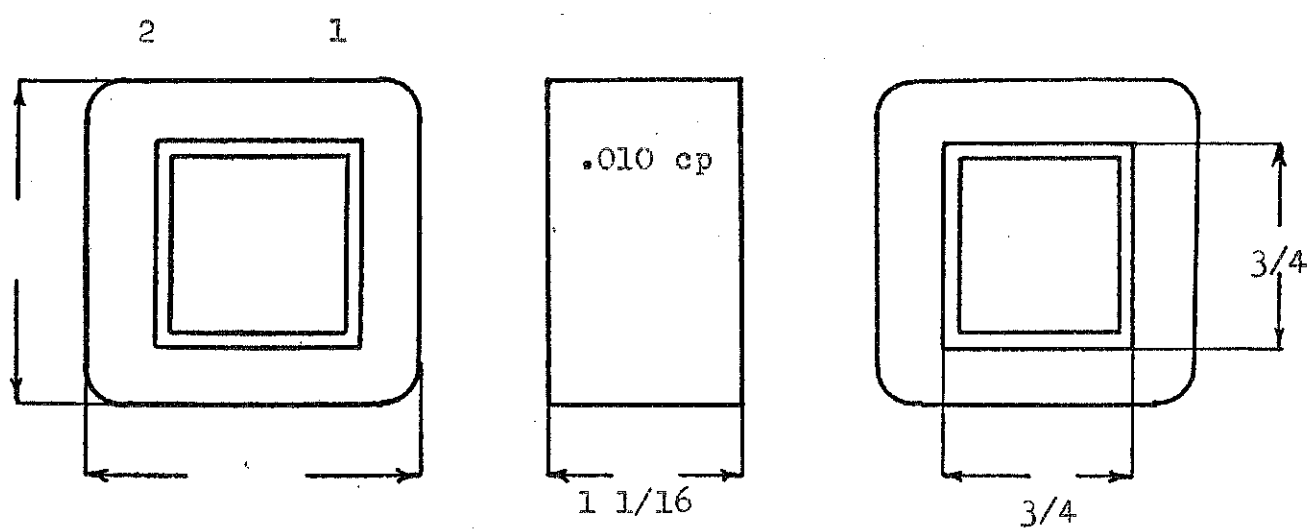
SPEC. NO. C343

Winding		choke				
Turns		5200				
Taps		--				
Wind. Lgth.		7/8				
Wire Size		#35				
T. P. L.		130-40L				
Finish		91%				
Type Lead		Silver Braid				
Lead Lgth.		3"				
Layer Insul.		20#				
Test Volt.		2500				
		.255				
Wrapper						

TUBE	5L007GK + 1L003UG	IMPREGNATION	Varnish
CORE	3/4 x 3/4	GA. 24	GRADE D
			STACK Butt .010 Cap

MOUNTING D - Lugs

r.p.v.
 window = $.338 / .375 = 90.2\%$



DESIGNED BY *Re-written F. Frazer*

DATE

DESIGN AND TEST DATA

Rating:

Winding		choke					
Mean Turn		432					
Resistance 25° c		627					
Pounds Copper		.183					
Copper Density		631					
Ratio Volts							
Test to Ground		2500					

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks:

$$\frac{NI}{l} = \frac{5200 \times 0.050}{11.42} = 22.8$$

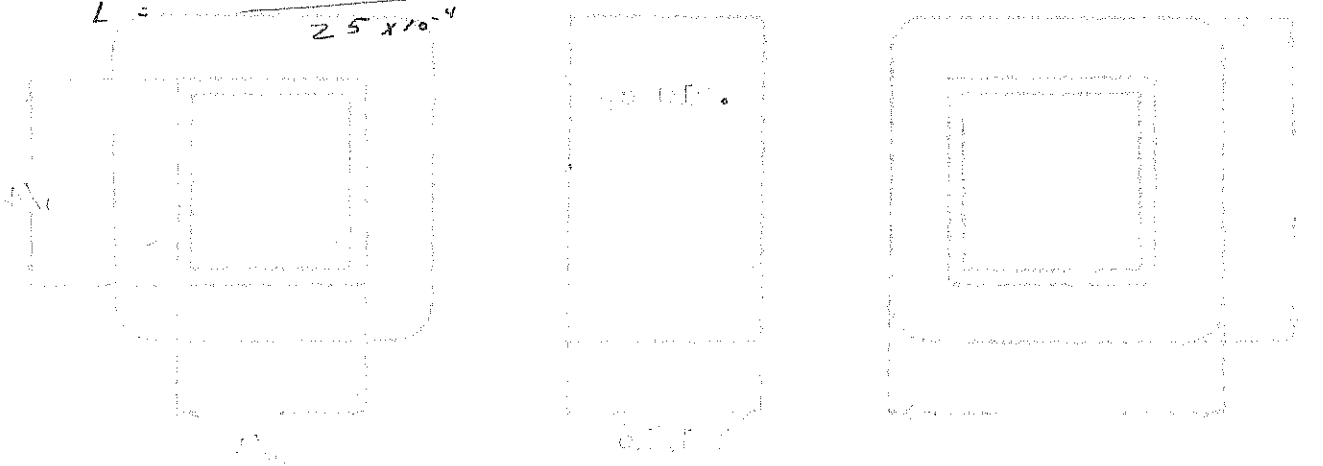
$$\frac{LI^2}{V} = 12.25 \times 10^{-4}$$

$$L = \frac{12.25 \times 10^{-4} \times 41.5}{25 \times 10^{-4}} = 20.3 \mu H$$

$$\frac{a}{l} = .00208$$

$$a = .00208 \times 4.5 = .0094$$

use 2(.005)



Choke
15 Hg @ 150 ma

Stock *out*

AT&T TEST QMA WORKBOOK

200 Ω

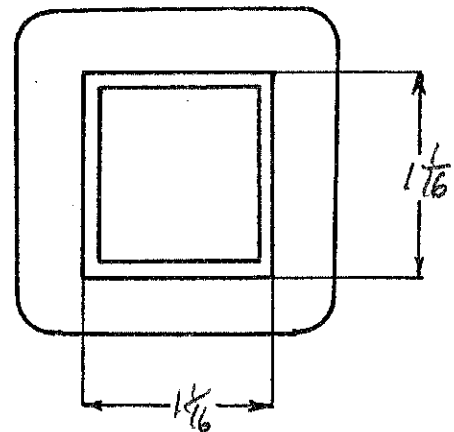
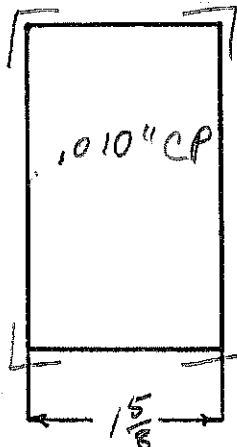
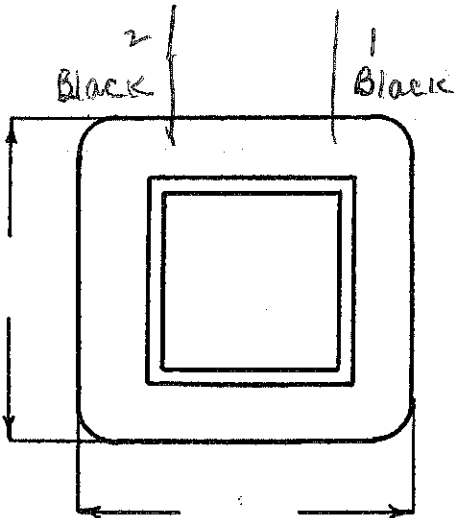
SPEC. NO. C344
Similar to 7939

Winding		1-2 Choke				
Turns		4000				
Taps		—				
Wind. Lgth.		1 1/4"				
Wire Size		# 30				
T. P. L.		100-40L				
Finish		86 1/2%				
Type Lead		# 22 Dulac				
Lead Lgth.		9"				
Layer Insul.		30#				
Test Volt.		2500 V.				
Wrapper		1L007VC 2L005GA				

TUBE 7L007GK + 1L005VC IMPREGNATION Varnish

CORE 1/16 x 1/16 GA. 24 GRADE D STACK Butt Gap.

MOUNTING A



DESIGNED BY

DATE

DESIGN AND TEST DATA

Rating:

Winding		1-2 Choke				
Mean Turn		6.03				
Resistance 25° c		207.				
Pounds Copper		.624				
Copper Density		670				
Ratio Volts						
Test to Ground		2500V				

Iron Induction @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks:

$$\frac{NI}{l} = \frac{4000 \times .15}{18.1} = 33.2$$

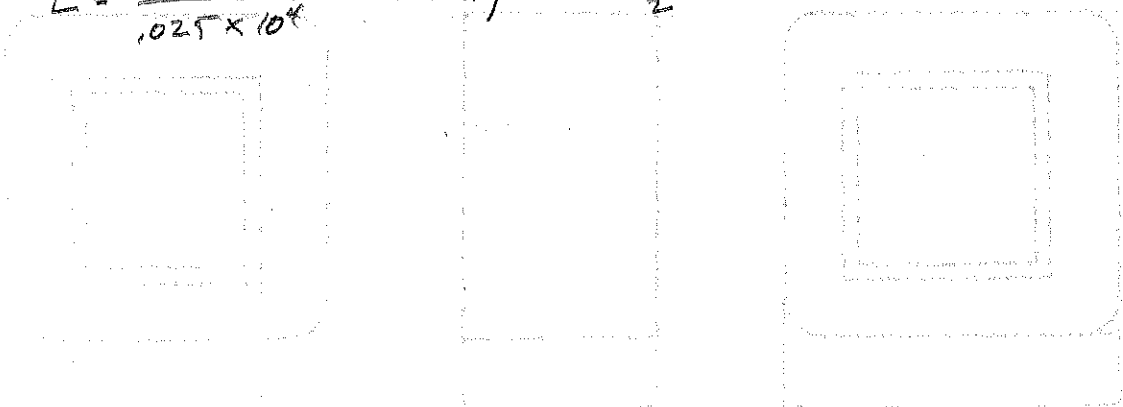
$$\frac{a}{l} = .0031$$

$$\frac{LI^2 \times 10^6}{V} = 21$$

$$R = .0031 \times 7.14 = .0222$$

$$L = \frac{21 \times 198}{.025 \times 10^6} = 16.6 \text{ Hg}$$

$$\frac{g}{2} = .011$$



Choke

Stock

15 Hg @ 150 ma

STAG TEST OKA MOLENO

200 Ω

SPEC. NO. C344

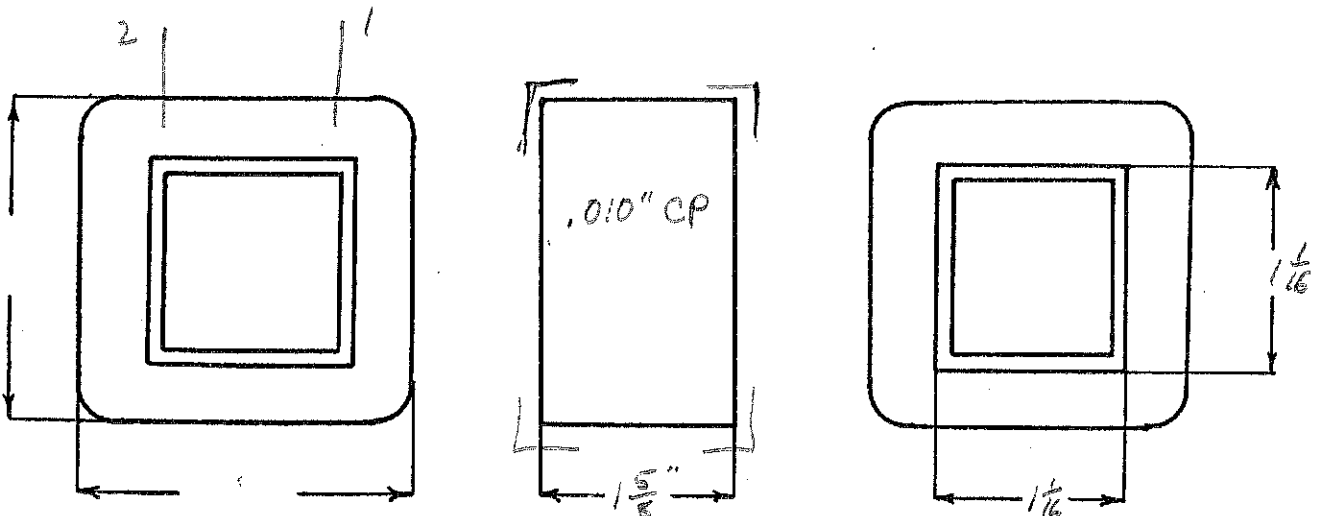
Similar to 7939

Winding	1-2					
Turns	Choke					
Taps	4000					
Wind. Lgth.	—					
Wire Size	1 1/4"					
T. P. L.	#30					
Finish	100-40L					
Type Lead	86 1/2%					
Lead Lgth.	Sil Br.					
Layer Insul.	3" Black Vinyl Sleeve					
Test Volt.	30 #					
Wrapper	2500 V.					
	1L007 VC					
	2L005 GA					

TUBE 7L007 GK + 1L005 VC IMPREGNATION Varnish

CORE 1/16 x 1/16 GA 24 GRADE D STACK Butt Gay

MOUNTING B Lugs.



DESIGNED BY

DATE

DESIGN AND TEST DATA

Rating: _____

Winding		1-2 Choke					
Mean Turn		6.03					
Resistance 25° c		207					
Pounds Copper		.624					
Copper Density		670					
Ratio Volts							
Test to Ground		250 V.					

Iron Induction _____ @ _____ Cycles _____

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks:

$$\frac{NI}{l} = \frac{4000 \times .15}{18.1} = 33.2$$

$$\frac{a}{l} = .0031$$

$$\frac{LI^2 \times 10^4}{V} = 21$$

$$a = .0031 \times 7.14 = .0222''$$

$$L = \frac{21 \times 198}{.025 \times 10^4} = 16.6 \text{ Hy}$$

$$\frac{a}{2} = .0111''$$

CHOKE

STOCK

15 Hy @ 200 Ma.

200 ohms D.C.

SPEC. NO. C345

Winding	1-2 choke				
Turns	3850				
Taps	---				
Wind. Lgth.	1 3/8				
Wire Size	#29				
T. P. L.	104-37L				
Finish	92%				
Type Lead	#20 Dulac Lugs				
Lead Lgth.	3"				
Layer Insul.	30#				
Test Volt.	5000				
Wrapper	2L005VC 2L005GA				

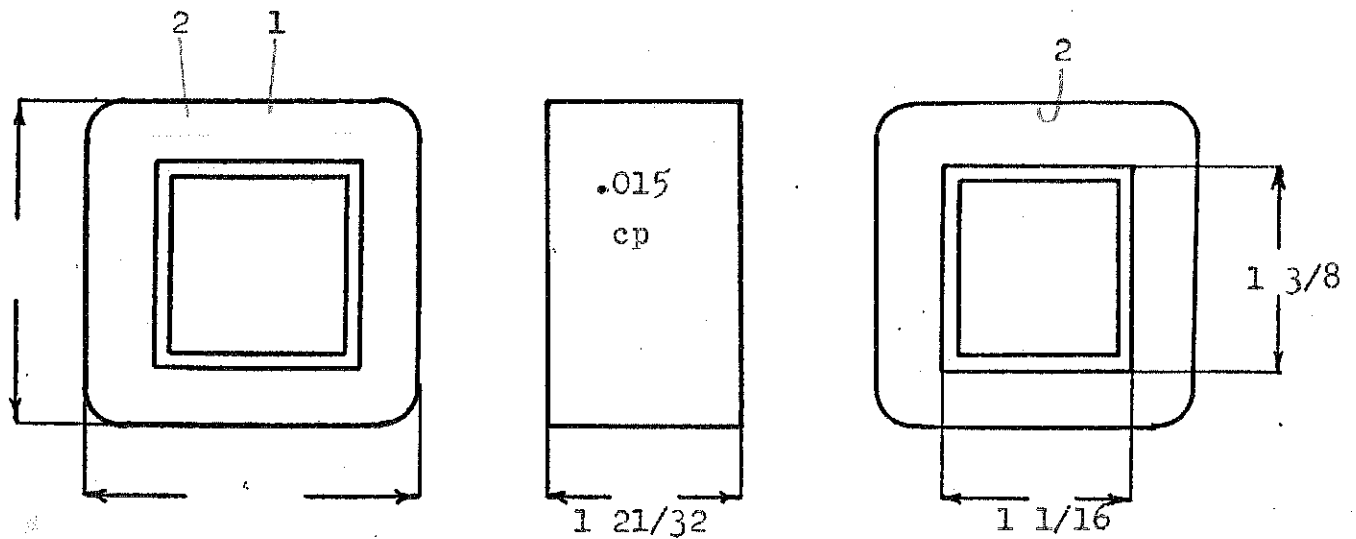
Handwritten notes:
6000
6000

TUBE 7L007GK plus 1L005VC IMPREGNATION Double Varnish

CORE 1/16 x 1 3/8 GA. 24 GRADE D BUTT .020 GAP
STACK DOUBLE VARNISH

MOUNTING B - Lugs

T. P. L.
Window - .596 / .656 = 90.8%



DESIGNED BY *Re written S. W. B*

DATE 6-47

DESIGN AND TEST DATA

Rating:

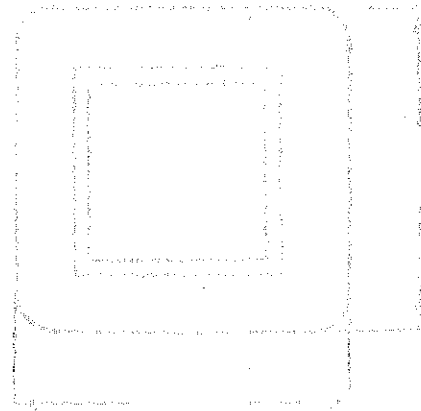
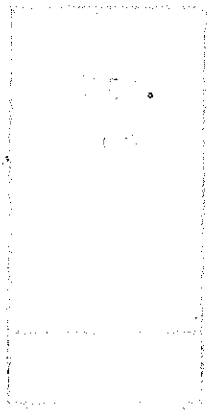
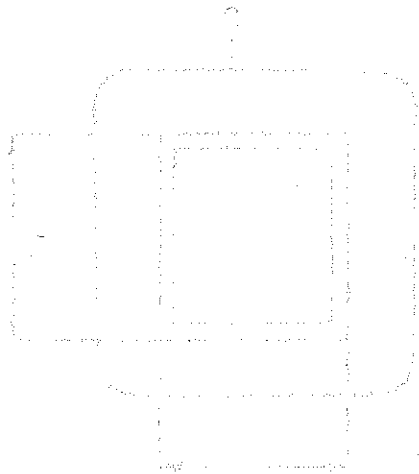
Winding		choke					
Mean Turn		7.25					
Resistance 25° c		194					
Pounds Copper		.907					
Copper Density		634					
Ratio Volts							
Test to Ground		5000					

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks:



CHOKE

STOCK

15 Hy @ 200 Ma.

200 ohms D.C.

SPEC. NO. C345

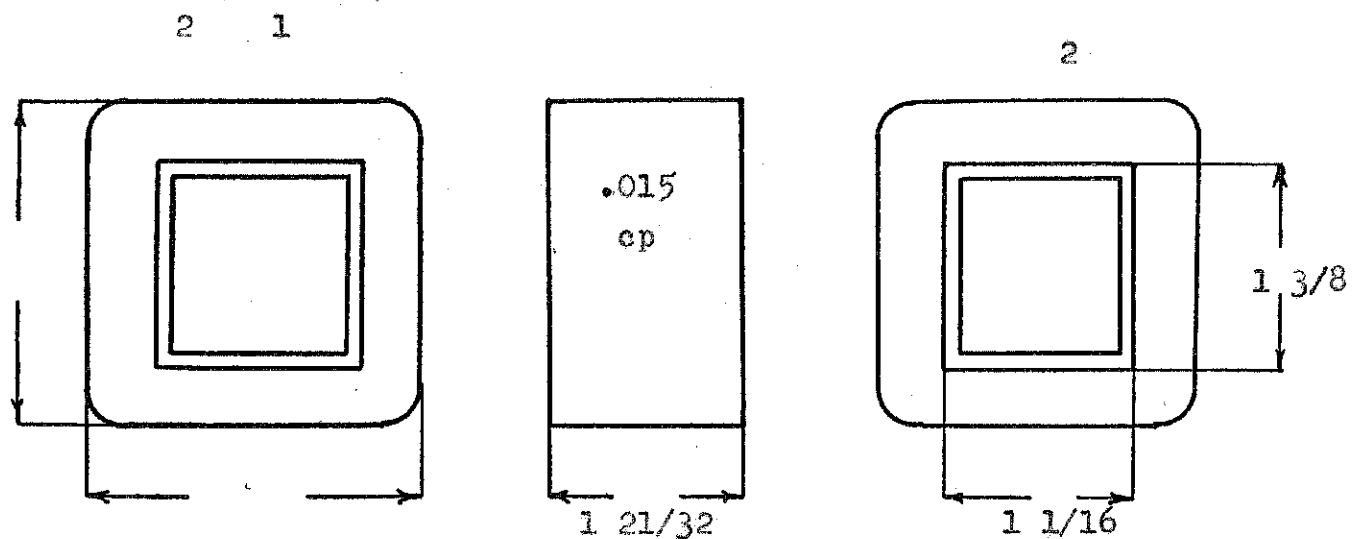
Winding		1-2 choke				
Turns		3850				
Taps		---				
Wind. Lgth.		1 3/8				
Wire Size		#29				
T. P. L.		104-37L				
Finish		92%				
Type Lead		#20 DuLac				
Lead Lgth.		9"				
Layer Insul.		30#				
Test Volt.		5000				
Wrapper		2L005VC 2L005GA				

TUBE	7L007GK plus 1L005VG	IMPREGNATION	Double Varnish
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CORE	1 1/16 x 1 5/8 GA. 24	GRADE	D	STACK	Butt .020 Gap Double Varnish
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MOUNTING B

T. P. V.
Window - $596 / .656 = 90.876$



DESIGNED BY
*Rewritten
S. W. B.*

DATE
6-47

DESIGN AND TEST DATA

Rating: _____

Winding		choke					
Mean Turn		7.25					
Resistance 25° c		194					
Pounds Copper		.907					
Copper Density		634					
Ratio Volts							
Test to Ground		5000					

Iron Induction @ _____ Cycles _____

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks: _____

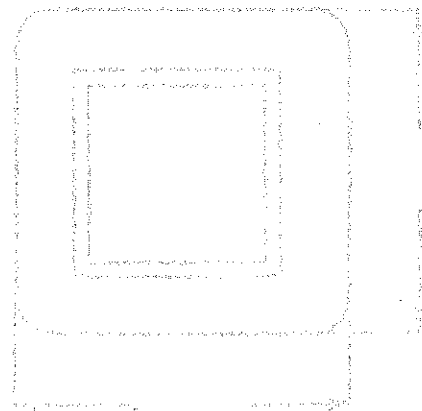
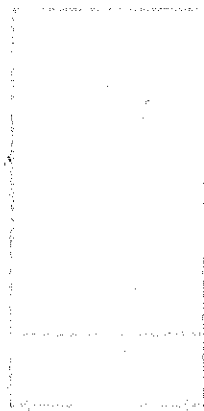
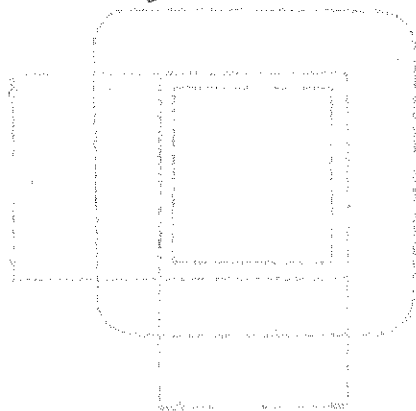
$$\frac{NI}{l} = \frac{3550 \times 2}{18.1} = 41.5$$

$$\frac{a}{l} = .0039$$

$$\frac{LE^2}{V} = 29 \times 10^{-4}$$

$$a = .0039 \times 7.14 = .028$$

$$L = 18.6 \text{ H}$$



CHOKE

STOCK

12 Hy @ 350 Ma.

ATAQ TEST (IMA NUMBER)

150 ohms

SPEC. NO. 0346

4000 volts Insulated

Winding		Choke				
Turns		3465				
Taps		----				
Wind. Lgth.		1 3/4				
Wire Size		#27				
T. P. L.		105-33L				
Finish		92%				
Type Lead		Black W.O. Vinyl Tube				
Lead Lgth.		3"				
Layer Insul.		30#				
Test Volt.		4000				
Wrapper		1L005VC 2L005GA				

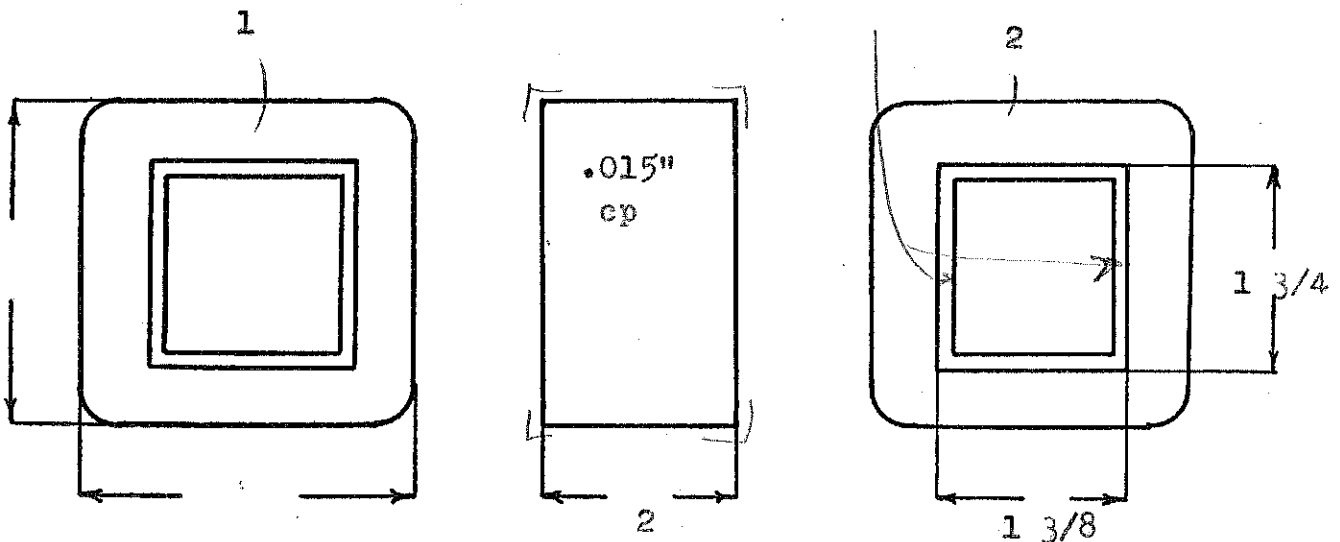
TUBE 7L007GK plus 1L005VG IMPREGNATION Double Varnish

CORE 1 3/8 x 1 3/4 GA. 24 GRADE D STACK Butt .035" Gap

MOUNTING B - Lugs

T. P. V.

Window - $.639 / .688 = 92.8\%$



DESIGNED BY

F. F.

DATE

DESIGN AND TEST DATA

Rating:

Winding		1-2 choke					
Mean Turn		10.35					
Resistance 25° c		152 ohms					
Pounds Copper		1.85					
Copper Density							
Ratio Volts							
Test to Ground		4000					

Iron Induction @ Cycles

Exciting Current amperes @ volts 60 cycles on

Induced Test: Apply Volts at Cycles on with grounded

Remarks:

$$\frac{NI}{e} = \frac{3965 \times .35}{21} = 57.5$$

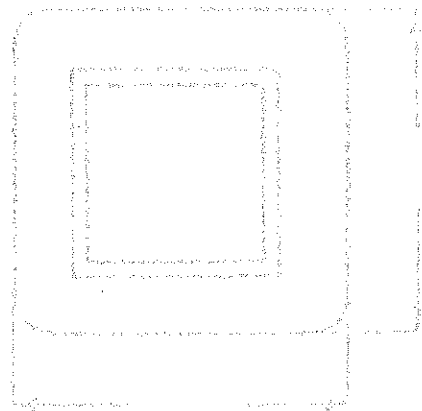
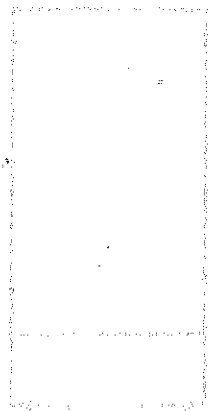
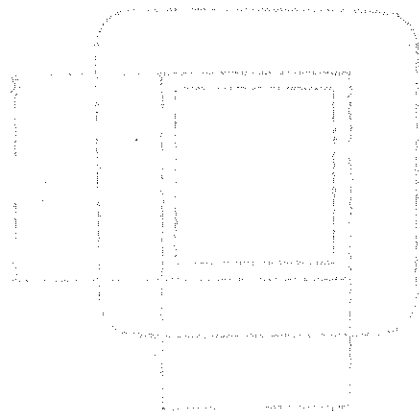
$$\frac{a}{e} = .0055$$

$$a = .0055 \times 8.25 = .045$$

$$\frac{LI^2}{V} = 45.5 \times 10^{-4}$$

$$\frac{a}{2} = .0225$$

$$L = \frac{45.5 \times 326}{(.35)^2 \times 10^4} = 12.1$$



CHOKE

STOCK

12 Hy @ 350 Ma.

ALSO TEST UVA METER

150 ohms

SPEC. NO. C346

4000 volts Insulated

Winding		Choke				
Turns		3465				
Taps		----				
Wind. Lgth.		1 3/4				
Wire Size		#27				
T. P. L.		105-33L				
Finish		92%				
Type Lead		Black W.O. Vinyl Tube				
Lead Lgth.		3"				
Layer Insul.		30#				
Test Volt.		4000				
Wrapper		1L005VC 2L005GA				

TUBE	7L007GK plus 1L005VC	IMPREGNATION	Double Varnish
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CORE 1 3/8 x 1 3/4" GA.	24	GRADE D	STACK Butt .035" Gap
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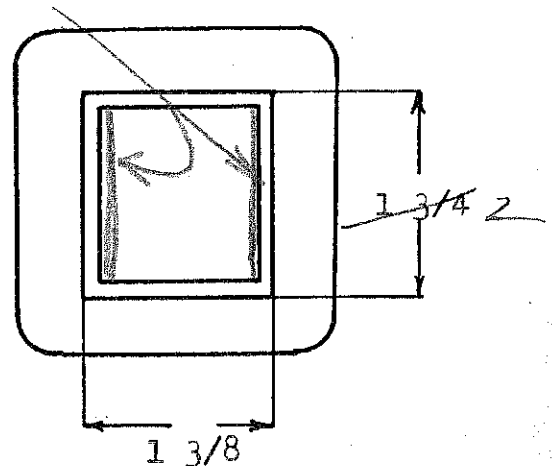
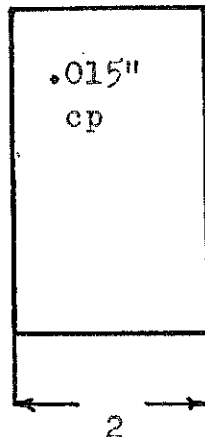
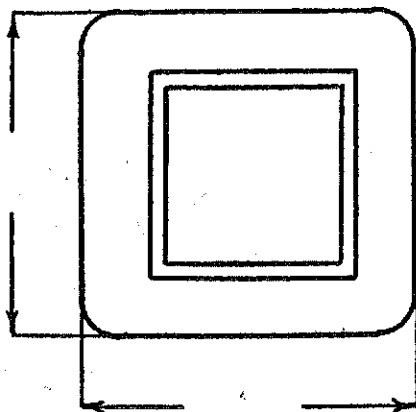
MOUNTING B - Lugs

T. P. V. window - $.639 / .688 = 92.8\%$

USE "U" LUGS + .030 C.P. PANEL ON TOP OF WRAPPER - HOLD DOWN WITH 2L .005 GK

1

~~1~~ .007VG 2



DESIGNED BY

DATE

DESIGN AND TEST DATA

Rating:

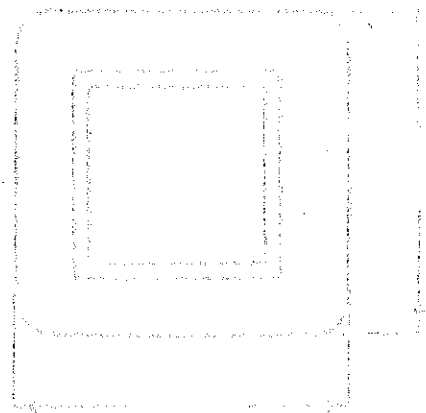
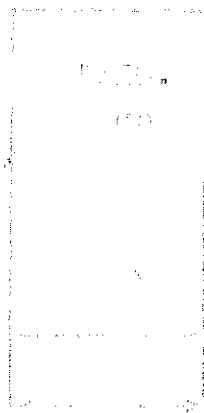
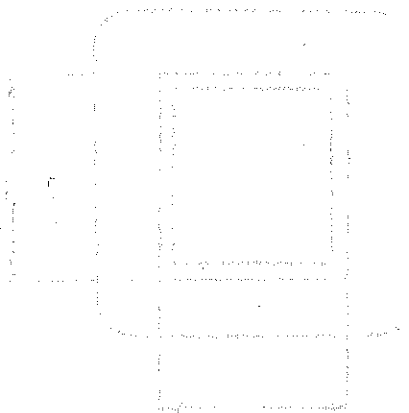
Winding		1-2 choke					
Mean Turn		10.35					
Resistance 25° c		152 ohms					
Pounds Copper		1.85					
Copper Density							
Ratio Volts							
Test to Ground		4000					

Iron Induction @ Cycles

Exciting Current amperes @ volts 60 cycles on

Induced Test: Apply Volts at Cycles on with grounded

Remarks:



SWINGING CHOKE

STOCK

5-20 Hy @ 350-35 Ma. DC

SPEC. NO. 0347

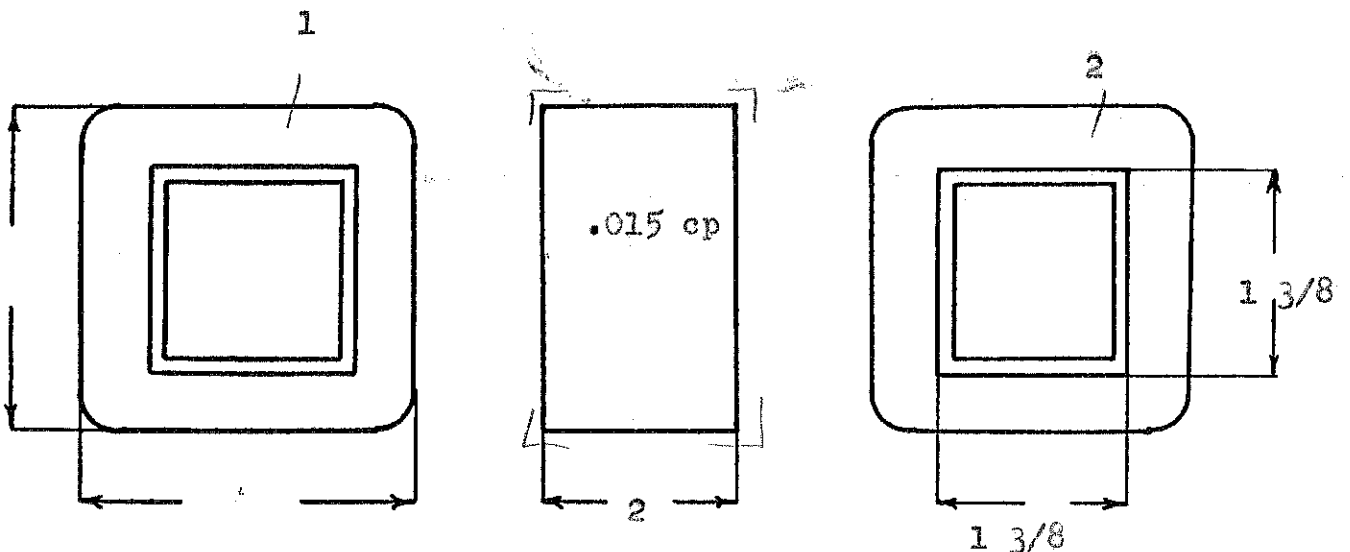
Winding		1-2 choke				
Turns		3425				
Taps		--				
Wind. Lgth.		1 3/4				
Wire Size		#27				
T. P. L.		104-33L				
Finish		90%				
Type Lead		W.O. vinyl sl.				
Lead Lgth.		3"				
Layer Insul.		30#				
Test Volt.		4000				
Wrapper		1L007VC 1L005GA				

TUBE 7L007GK plus 1L007VG IMPREGNATION Double Varnish

CORE 1 3/8 x 1 1/2 GA. 24 GRADE D STACK Butt .015 Gap

MOUNTING B - Lugs

T. P. L. -
window - $1638 / 1688 = 97.5\%$



DESIGNED BY

F. F.

DATE

1 3/8

DESIGN AND TEST DATA

Rating: _____

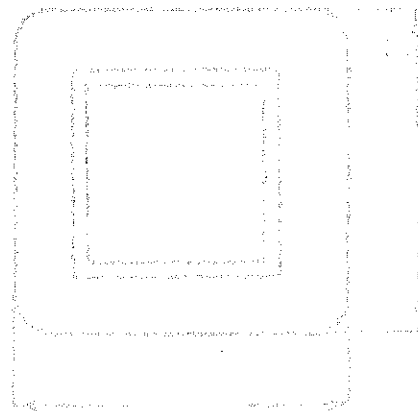
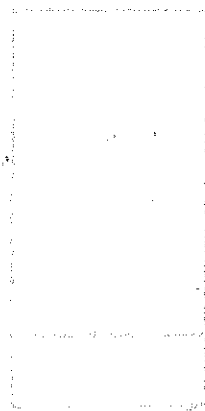
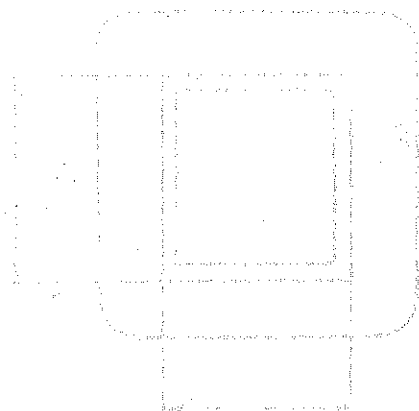
Winding		1-2 choke					
Mean Turn		7.46					
Resistance 25° c		157 ohms					
Pounds Copper		1.9					
Copper Density		576					
Ratio Volts							
Test to Ground		4000					

Iron Induction _____ @ _____ Cycles _____

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks: _____



SWINGING CHOKE

STOCK

5-20 Hy @ 350-35 Ma. DC

SPEC. NO. G347

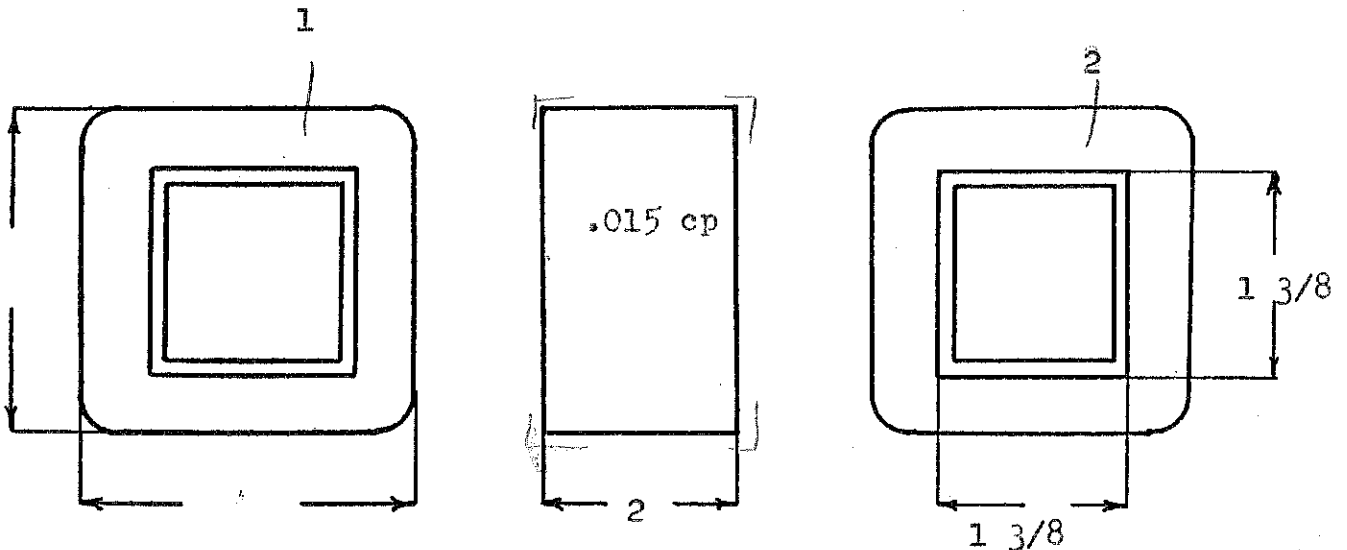
Winding		1-2 choke				
Turns		3425				
Taps		--				
Wind. Lgth.		1 3/4				
Wire Size		#27				
T. P. L.		104-33L				
Finish		90%				
Type Lead		W.O. vinyl sl.				
Lead Lgth.		3"				
Layer Insul.		30#				
Test Volt.		4000				
Wrapper		1L007VC 1L005GA				

TUBE 7L007GK plus 1L007VG IMPREGNATION Double Varnish

CORE 1 3/8 x 1 1/2 GA. 24 GRADE D STACK Butt .015 Gap

MOUNTING B - Lugs

T. P. V. -
Window - $.688 / .688 = 92.5\%$



DESIGNED BY F.F.

DATE

DESIGN AND TEST DATA

Rating:

Winding		1-2 choke				
Mean Turn		7.46				
Resistance 25° c		157 ohms				
Pounds Copper		1.9				
Copper Density		576				
Ratio Volts						
Test to Ground		4000				

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks:

$$\frac{NI}{l} = \frac{3425 \times 356}{21} = 57.1$$

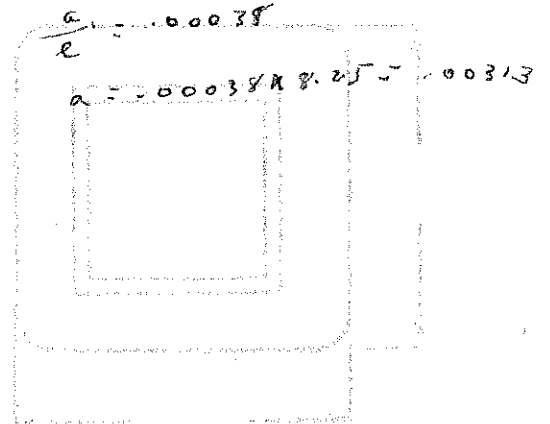
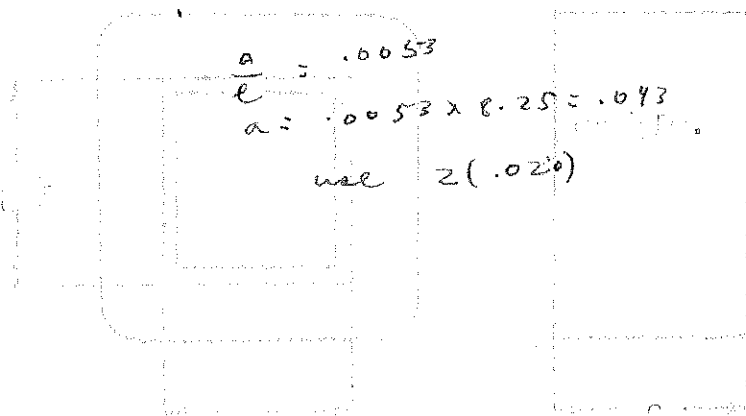
$$\frac{LI^2}{V} = 45 \times 10^{-4}$$

$$L = \frac{45 \times 10^{-4} \times 256}{(35)^2} = 9.4 \text{ Hy}$$

$$\frac{NI}{l} = \frac{3425 \times 356}{21} = 5.71$$

$$\frac{LI^2}{V} = 1.25 \times 10^{-4}$$

$$L = \frac{1.25 \times 10^{-4} \times 256}{(.075)^2} = 26.2$$



SWINGING CHOKE

STOCK

5-20 Hy @ 350-35 Ma. DC

SPEC. NO. C348

Winding		1-2 choke				
Turns		2750				
Taps		---				
Wind. Lgth.		1 1/2				
Wire Size		#27				
T. P. L.		89-31L				
Finish		90%				
Type Lead		W.O. vynyl sl				
Lead Lgth.		3"				
Layer Insul.		30#				
Test Volt.		7000				
Wrapper		3L007VC 2L007GA				

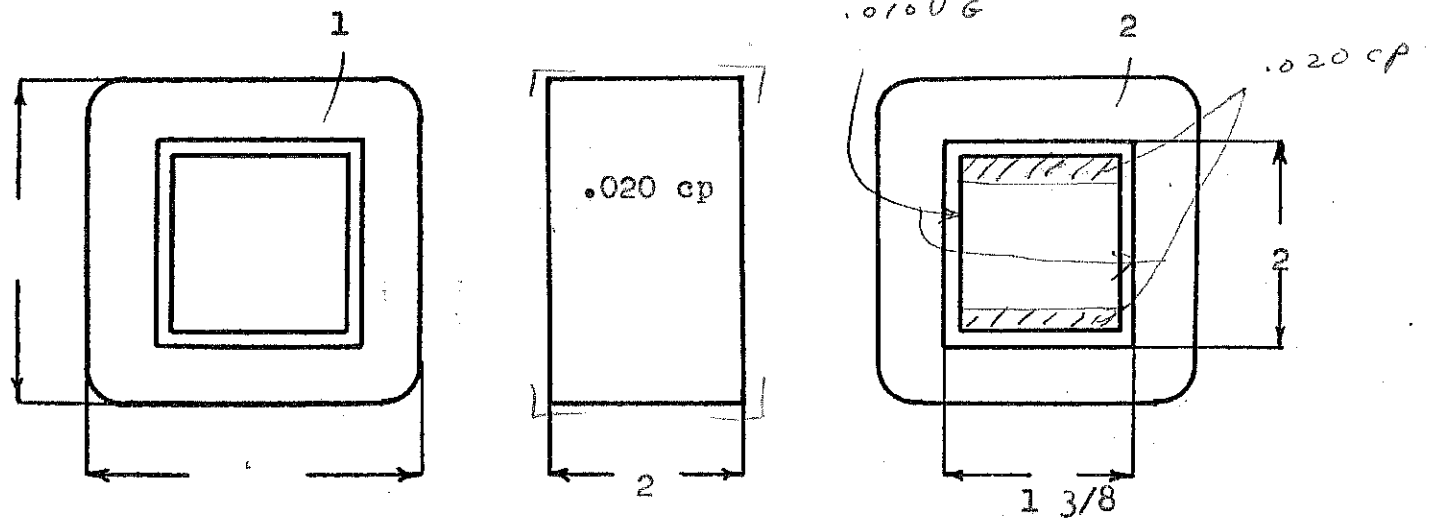
TUBE	7L007GK plus 2L007VC	IMPREGNATION	Double Varnish
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CORE	1 3/8 x 2	GA.	24	GRADE	D	STACK Butt	.007" Gap
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MOUNTING B Lugs

T.P.V. ~
Window - $1638 / 1688 = 92.5\%$

U - Lug panel .030 cp
wrap with 2L005GK



DESIGNED BY F.I.F.

DATE

DESIGN AND TEST DATA

Rating:

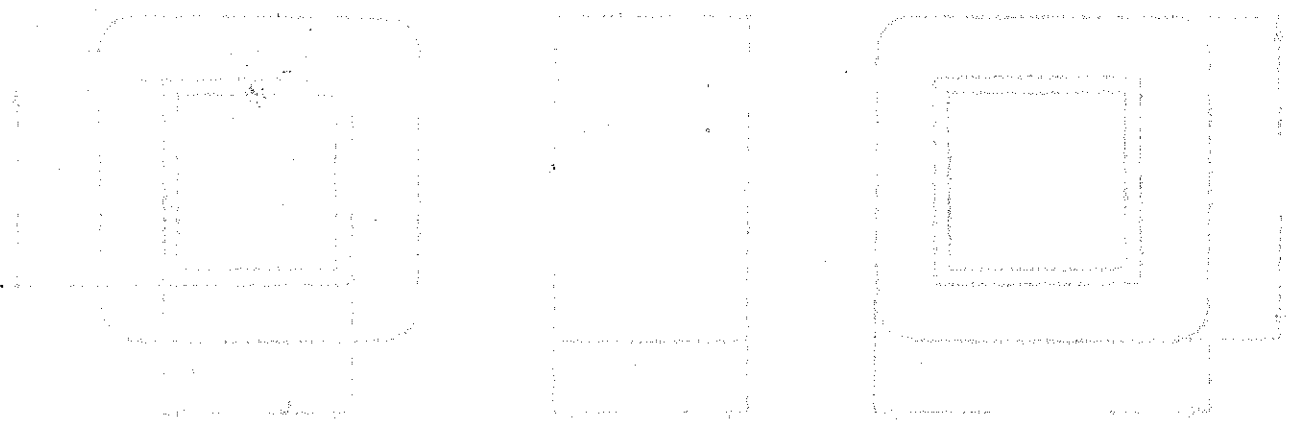
Winding		1-2 choke					
Mean Turn		9.96					
Resistance 25° c		118					
Pounds Copper		1.42					
Copper Density		576					
Ratio Volts							
Test to Ground		7000					

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks:



CHOKER

STOCK

10 Hy @ 350 Ma.

110 ohms

7500 volts Ins.

SPEC. NO. C349

Winding		1-2 choke				
Turns		2790				
Taps						
Wind. Lgth.		1 1/2				
Wire Size		#27				
T. P. L.		90-311				
Finish		92%				
Type Lead		W.O. Black Vinyl	(Extend sleeve 1/4" outside coil)			
Lead Lgth.		3"				
Layer Insul.		30#				
Test Volt.		7500				
Wrapper		3L007VG- 2L005GK				

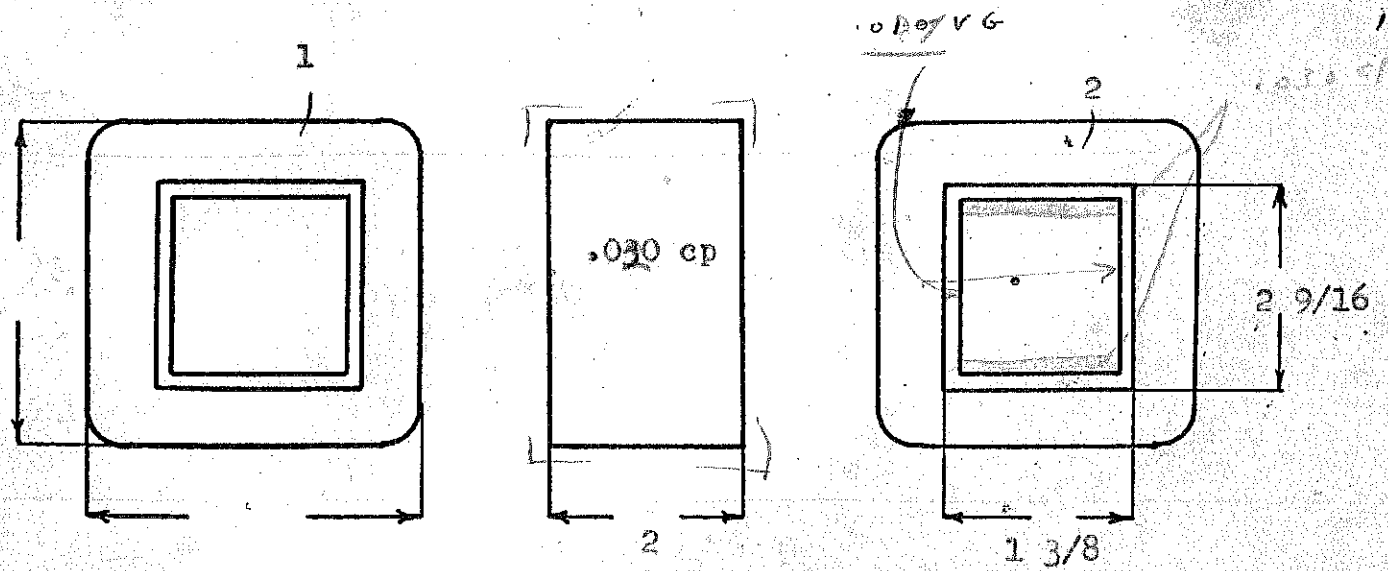
TUBE	7L007GK plus 2L007VG-	IMPREGNATION	Double Varnish
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CORE 1 3/8 x 2 1/2 GA. 24 GRADE D STACK Butt .025 Gap

MOUNTING B - Lugs

T. P. U.
Window - .644 / .688 = 93.7%

U - Lugs on .030 Panel
wrapper



DESIGNED BY

F.F.

DATE

DESIGN AND TEST DATA

Rating: _____

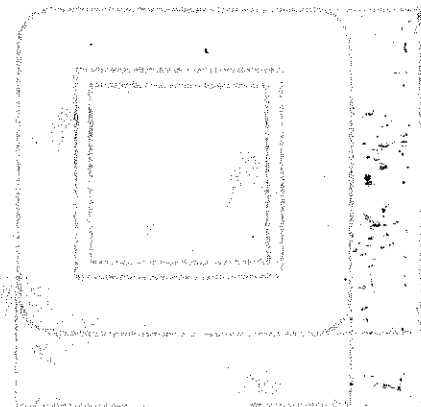
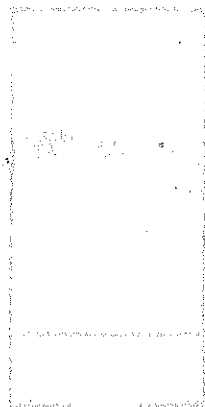
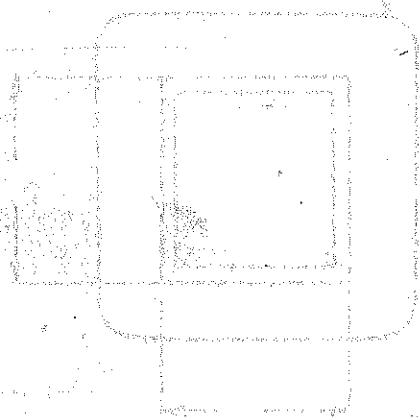
Winding		choke				
Mean Turn		8.80				
Resistance 25° c		107				
Pounds Copper		1.27				
Copper Density		575				
Ratio Volts						
Test to Ground		7500				

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks: _____



$E_p = 115 V.$

$F_1 = 7.5 V. 3 AMP.$

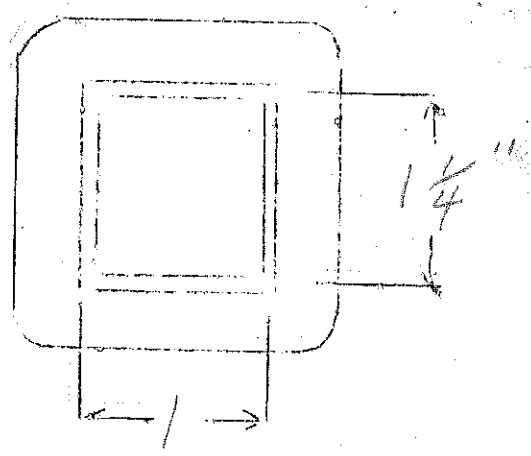
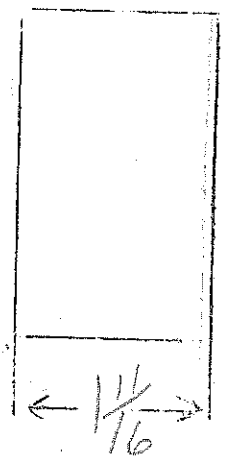
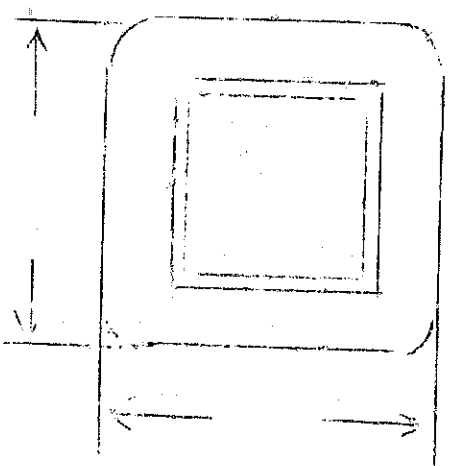
$F_2 = 7.5 V. 3 AMP.$

$F_3 = 2.5 V. 10.5 AMP.$

3000 VOLT INSULATION

SPEC. NO. 350

Winding	PRI	SHIELD	F ₁	F ₂	F ₃		
Turns	515	1	36	36	12		
Taps	NONE	NONE	NONE	18	NONE		
Wind. Lgth.	1 1/2	1 1/2	—	—	—		
Wire Size	22 E	.005 BRASS	18 E	18 E	13 E		
T.P.L.	52-10						
Kind Term.	SP Br.	S.L. Br.	WIRE ONLY	WIRE ONLY	WIRE ONLY		
Term. Lgth.	10"	3"	10"	10"	10"		
Layer Insul.							
Wrapper	16.005 GA 16.005 VC	←	←	←	←		
TUBE	IMPREGNATION						
CURE	1 x 1/4 M						



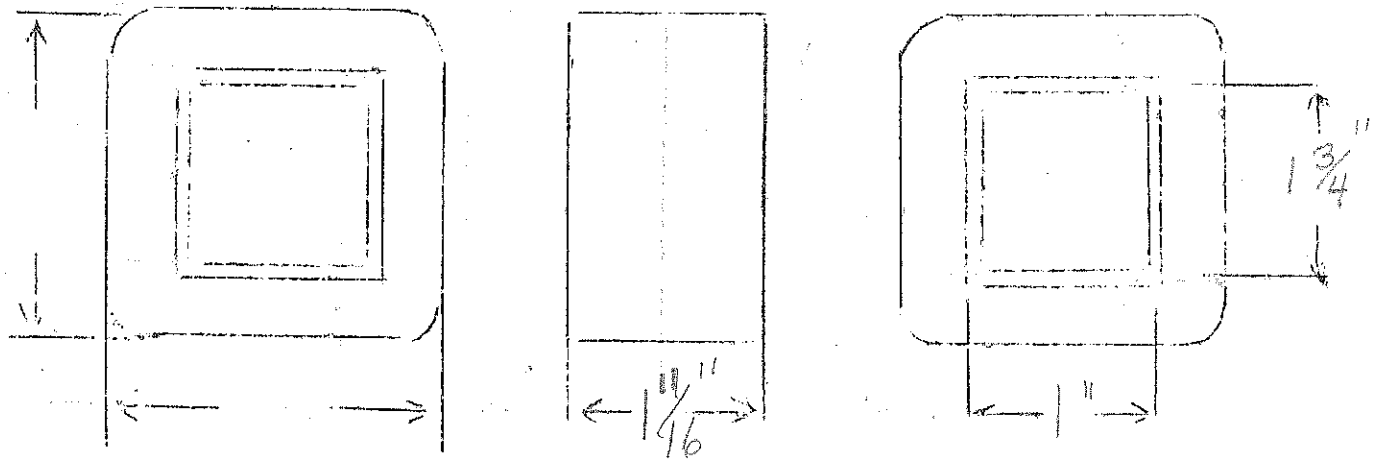
$E_p = 115 \text{ VOLT}$
 $F_1 = 10 \text{ VOLT}, 9 \text{ AMP. CT}$
 $F_2 = 2.5 \text{ VOLT}, 10.5 \text{ AMP.}$

3000 VOLT INSULATION

SPEC. NO. 351

	PRI	SHIELD	F ₁	F ₂			F ₃
Winding	PRI	SHIELD	F ₁	F ₂			F ₃
Turns	387	1	36	9			28
Taps	NONE	NONE	18	NONE			14
Wind. Lgth.	1 1/2	1 1/2					
Wire Size	21E	.005 BRASS	14E	13E			14E
T.P.L.	43-9						
Kind Term.							
Term. Lgth.							
Layer Insul.							
Wrapper							
TUBE					IMPREGNATION		
CURE	1 X 1 3/4 M						

SPECIAL FOR BAKER



Ep - 110

List # 450

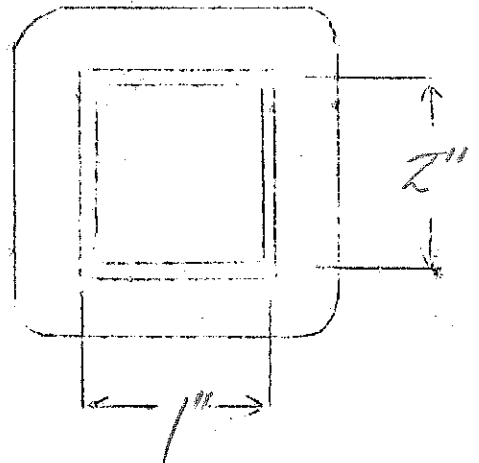
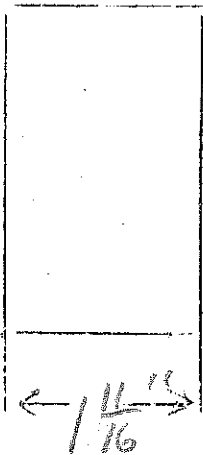
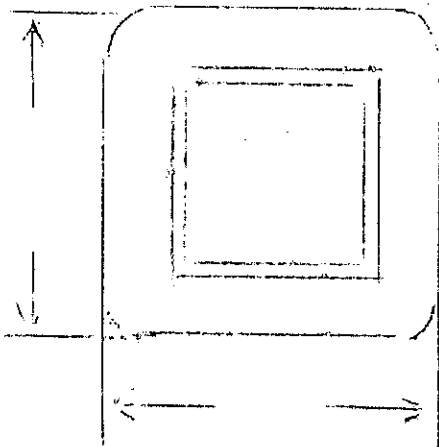
(Radio Assemblies)

Es = 246 volts - 20 amps

8.2

SPEC. NO. 352

Winding	PRI	SEC				
Turns	328	20				
Taps	—	6 1/2				
Wind. Lgth.	1.5	13				
Wire Size	20E	double 13E				
T.P.L.						
Kind Term.		WIRE ONLY				
Term. Lgth.						
Layer Insul.						
Wrapper	2L005SA 2L003VP	2L005SA				
TUBE	4L007			IMPREGNATION		
CURE	1X2" M					

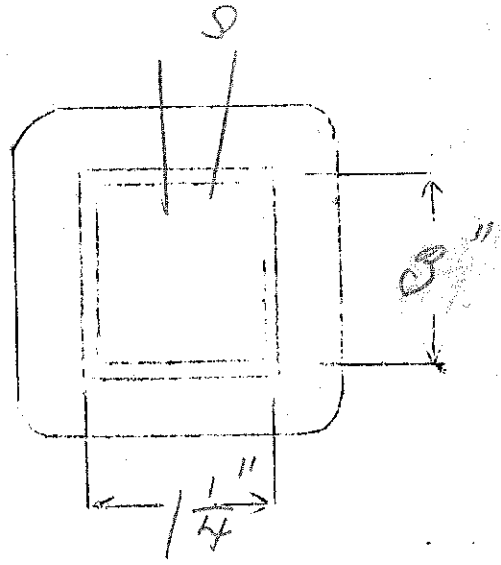
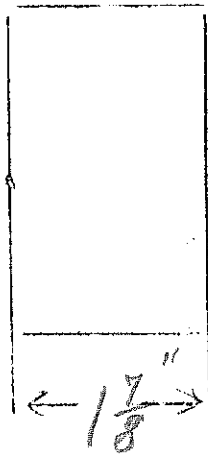
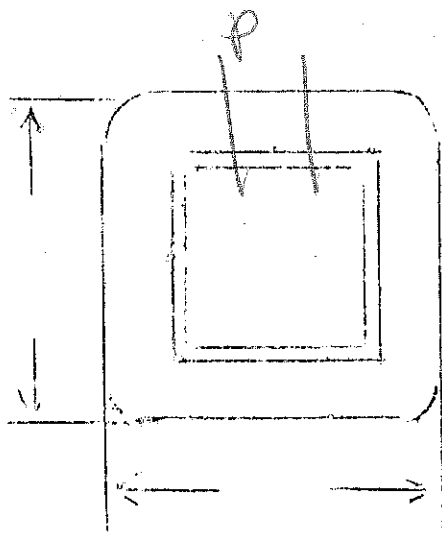


$E_p = 115V$

$E_s = 10V - 25 \text{ Amps}$

SPEC. NO. 353

Winding	PRI	SEC				
Turns	178	17				
Taps	—	—				
Wind. Lgth.	1 3/4"					
Wire Size	#16	Double #10				
T.P.L.	30-6	10				
Kind Term.	WIRE ONLY					
Term. Lgth.						
Layer Insul.						
Wrapper	6L005 V.C. 2L005 GA	6L005 V.C. 2L005 GA				
TUBE	7L007		IMPREGNATION		VARNISH.	
CURE	1/4 x 3 (7 x 1 5/16) WINDOW					



120
110
0

$$\frac{N}{E} = 3.7$$

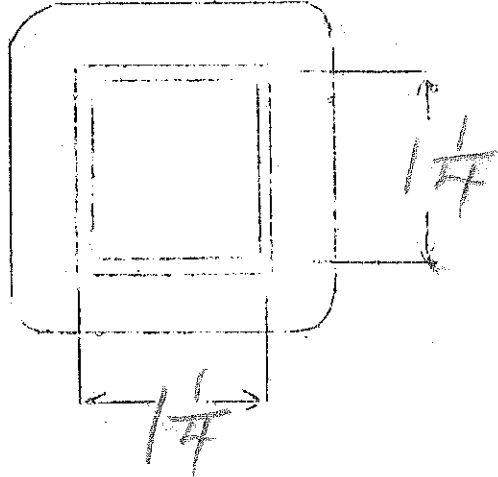
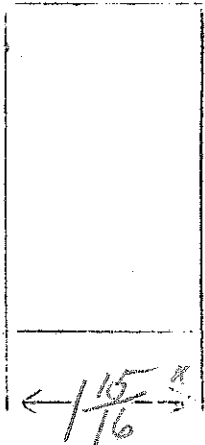
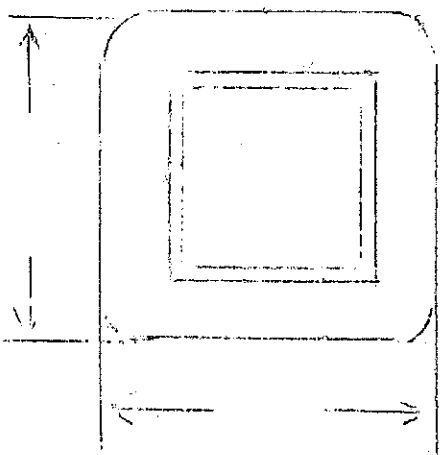
Step up - 110 - 120V - 1KW

SPEC. NO. 354

Winding	PRI ₁	PRI ₂					
Turns	410	41					
Taps	NONE	NONE					
Wind. Lgth.	$\frac{14}{16}$	$\frac{14}{16}$					
Wire Size	#20	#11					
T.P.L.	42-10	15-3					
Kind Term.	WIRE ONLY						
Term. Lgth.	9"	9"					
Layer Insul.							
Wrapper	005 GA.						

TUBE | 7L007 | IMPREGNATION | VARNISH

CURE | $\frac{1}{4} \times \frac{1}{4}$ NW



5 to 30 Henries
 325 DC Ma.
 125 Ohm

Swinging Choke

SPEC. NO. C-360

Winding	Pri.					
Turns	2720					
Taps	-					
Wind. Lgth.	1-5/16"	1.3125"				
Wire Size	#27					
T. P. L.	78 - 55L					
Finish Pitch	90%					
Type Lead	W.O.					
Lead Lgth.	6"					
Layer Insul.	30%G					
Test Volt.	7500V					
Wrapper	3L .007" VC 2L .007" GA					

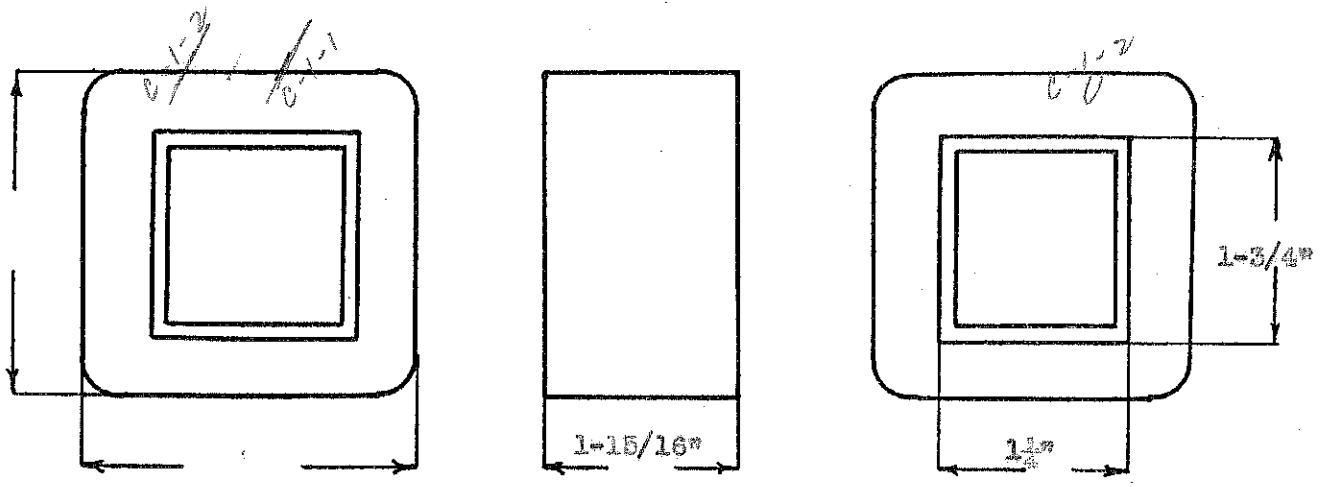
TUBE	VL - .007" GK / 2L - .007" VC	IMPREGNATION	YARNISH
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CORE	1 1/4" x 1 1/4" E & L GA.	24	GRADE D	STACK	Butt - .005" Gap
------	---------------------------	----	---------	-------	------------------

MOUNTING *HW 1/2" "F"*

Cu = 618

Wire Net = 0.554" (0.585")



DESIGNED BY G. W.

DATE 7-11-39

INPUT CHOKER

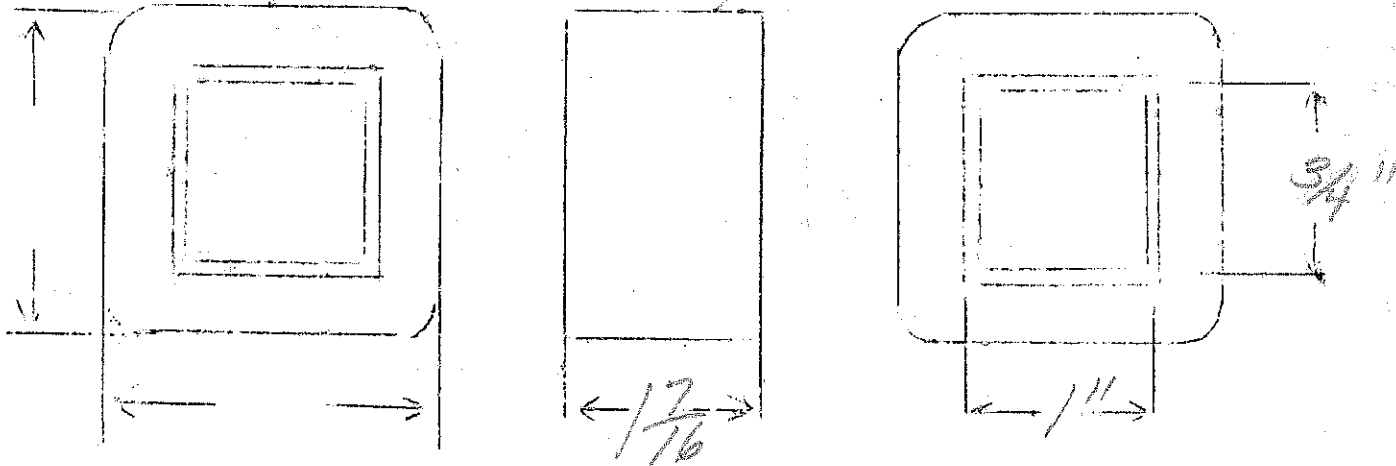
6H - 150Mg

160 Ω

Q2

SPEC. NO. 361

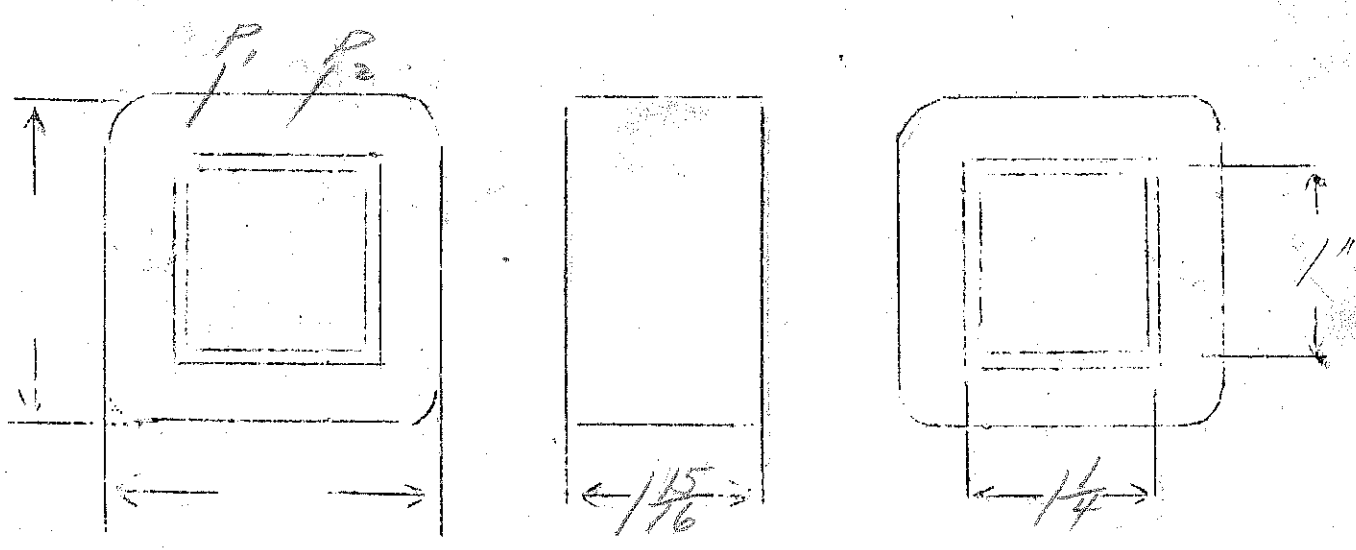
Winding	PRI					
Turns	3600					
Taps	—					
Wind. Lgth.	1.25					
Wire Size	#30					
T.P.L.	101					
Kind Term.	#20 PR2	51/BR				
Term. Lgth.	9"	3"				
Layer Insul.	20*					
Wrapper	3L005GA					
TUBE	7L007		IMPREGNATION		VARNISH	
CURE	1X 3/4		.015' GAP - 296.			



Input choke
 6H-300ma
 Insulation 3500 v

SPEC. NO. 362

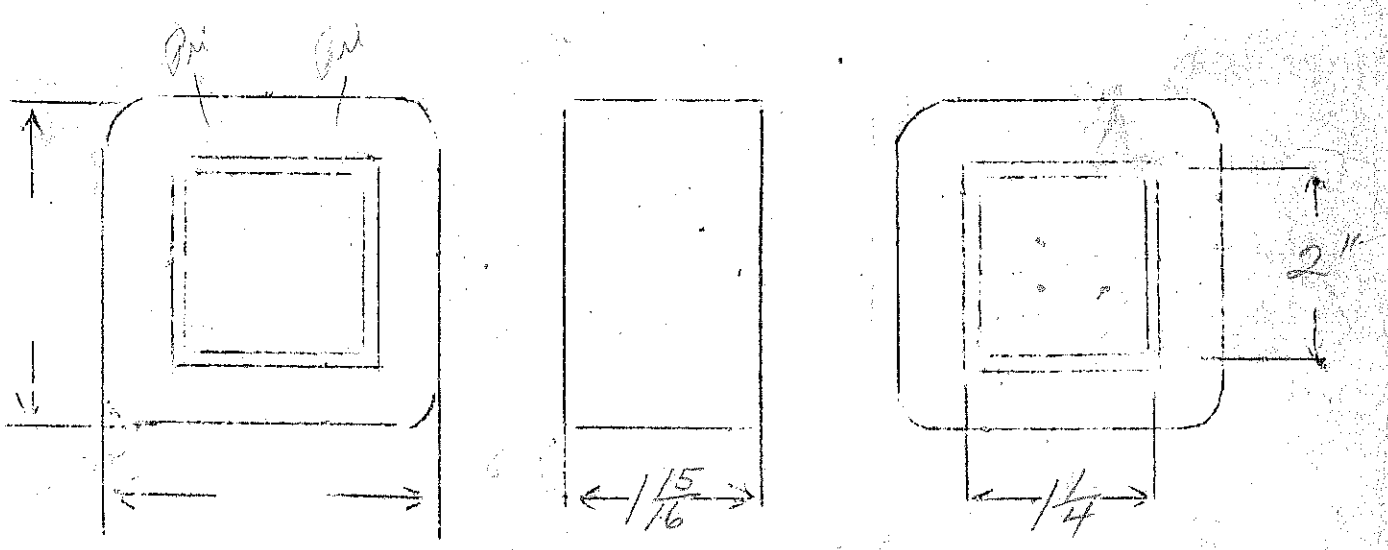
Winding							
Turns	3000						
Taps	—						
Wind. Lgth.	1.75						
Wire Size	#27						
T.P.L.	95						
Kind Term.	#30 Enam. wire						
Term. Lgth.	9"	3"					
Layer Insul.	30#						
Wrapper	2L005 V.C. 2L007 V.C.						
TUBE	7L007-1100WR			IMPREGNATION		VARNISH	
CURE	1 1/4 x 1"			.025 raw			



6H. - 500 Ma
5000 volt Insulation

SPEC. NO. 363

Winding	PRI						
Turns	2280						
Taps	—						
Wind. Lgth.	1.75						
Wire Size	#25						
T.P.L.	82						
Kind Term.	#20 Residual wire						
Term. Lgth.	9"	3"					
Layer Insul.	50#						
Wrapper	5L003 V.C. 5L007 V.C.						
TUBE	2L007 + 1L007VE		IMPREGNATION		VARNISH		
CURE	1/4" x 2"		.040" gap				



Swinging Choke

Stack

30 - 5 Henries @ 15 to 150 ma

200 ohm

3500v Insulation

SPEC. NO. C-3164

Winding		Choke				
Turns		3150				
Taps		—				
Wind. Lgth.		1 1/4"				
Wire Size		#30				
T. P. L.		105-30L				
Finish	etch	9140				
Type Lead		#20 Dular				
Lead Lgth.		9"	from case			
Layer Insul.		1L 304A				
Test Volt.		3500V				
Wrapper		1L-005 VC 2L-005 GA				

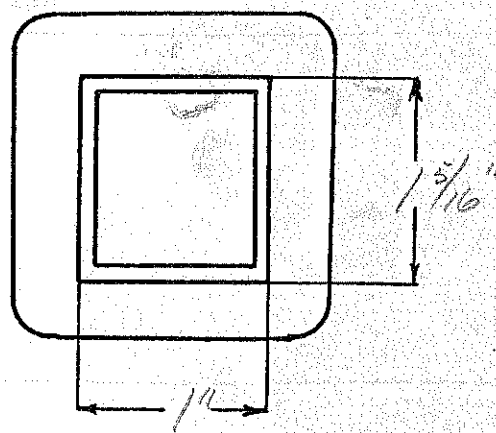
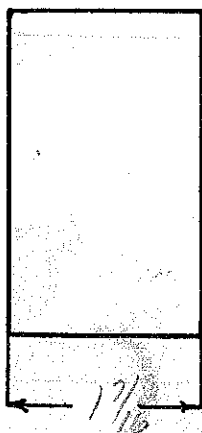
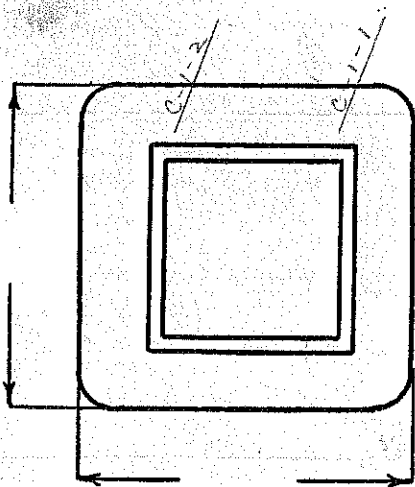
TUBE 6L-007 GK + 1L-005 VF IMPREGNATION Varnish

CORE 1" x 1 5/16" E.I. GA. 2+ GRADE D STACK Bolt - 003" Grip.

MOUNTING "A"

Cu = 500

Wire Net = 0.370" / 0.369"

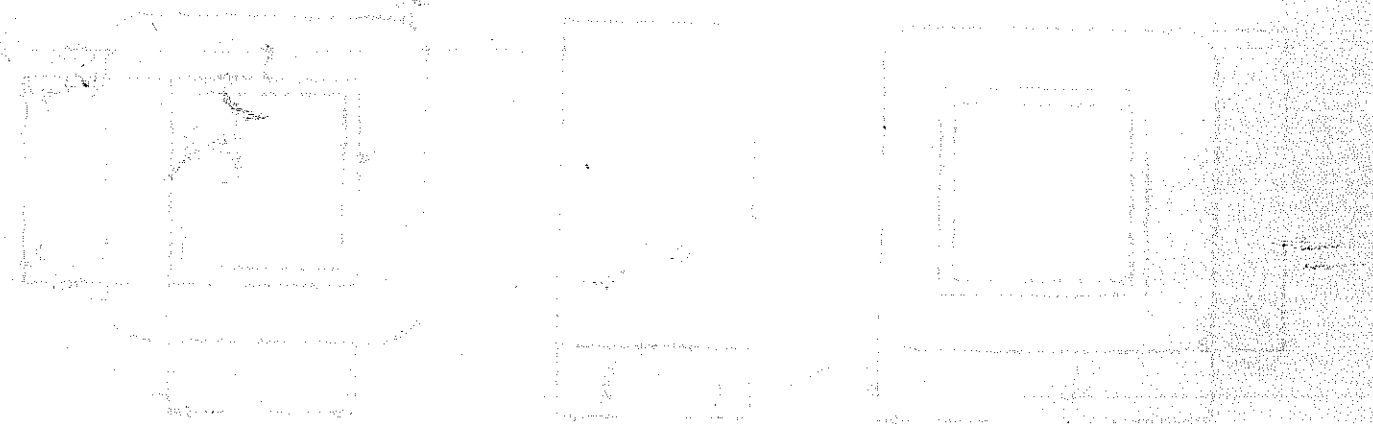


Re DESIGNED BY NWR

DATE 1-23-42

0046

Black
Black



30 to 5 Henries
 15 to 150 D. C. Ma. - 200 Ohm - 2500 V. Ins.

3500

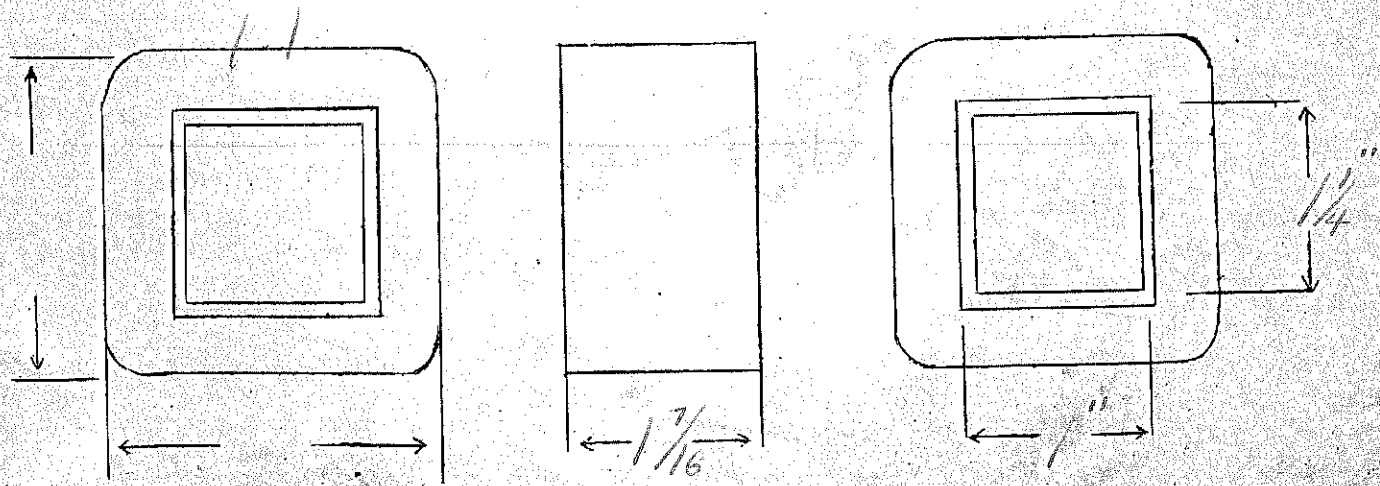
SPEC. NO. 0364

Winding	Pri			choke		
Turns	3300			3250		
Taps						
Wind. Lgth.	1/4"			1/4"		
Wire Size	#30	91%		#30		
T.P.L.	105-32			105-32		
Kind Term.	#20 P. Bl or Sil Bl					
Term. Lgth.	9" or 3"					
Layer Insul.	30 #			30 #		
Test Volt.	3500 2500 V 12005 VC			3500 12-005 VC 2L-005 GA		
Wrapper	2L005GA					

TUBE	7L007GRK OK	IMPREGNATION	VARNISH
CORE	1x1/4" Buttstack - ⁰⁰⁵ Gap	PRIMARY V.A.	
MOUNTING	A or B		

$C_u = 500$
 Wire Net = 0.365" (0.378")

Wire Net = 0.365" (0.366")



SIGNED BY G. V.

DATE

	A	B
1		
2		.016
3	.75	.85

Swinging Choke

30 to 5 Henry

25 to 250 Ma.

150 Ohm, 5000V Insulation

SPEC. NO. C-365

Winding		Choke				
Turns		3800				
Taps		-				
Wind. Lgth.		1 1/2"				
Wire Size		#28				
T. P. L.		100 - 38L				
Finish Pitch		90%				
Type Lead		SIL. BR.				
Lead Lgth.		4"				
Layer Insul.		LL 30/G				
Test Volt.		5000V				
Wrapper		2L - .005" VC 2L - .005" GA				

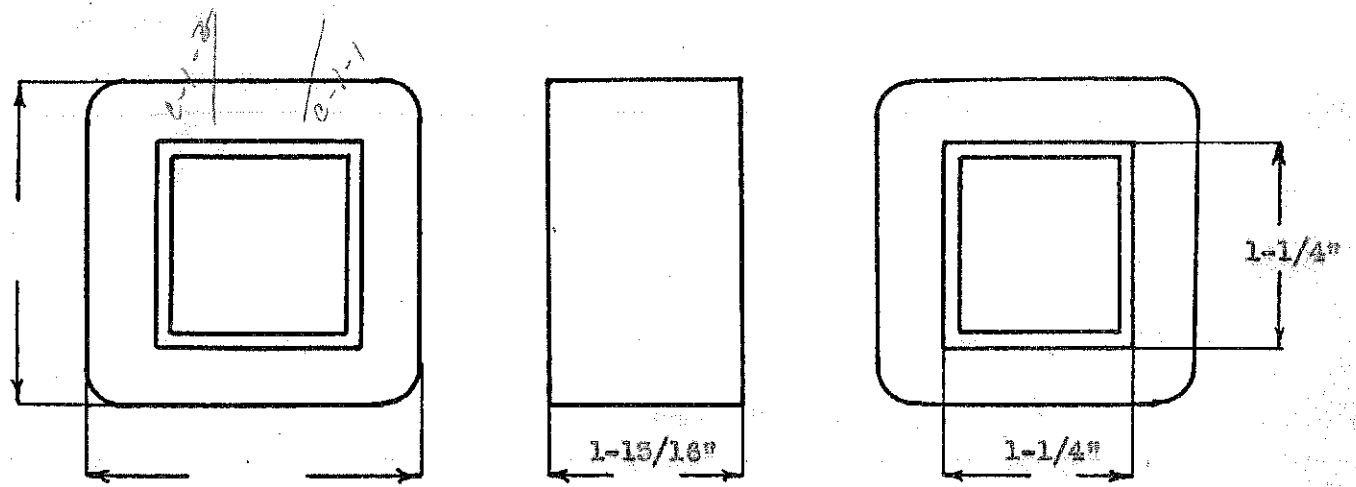
TUBE	7L - .007" GK / 2L - .005" VC	IMPREGNATION	VARNISH
------	-------------------------------	--------------	---------

CORE	1-1/4" x 1-1/4" GA.	24	GRADE	D	STACK	Butt - .015" Gap
------	---------------------	----	-------	---	-------	------------------

MOUNTING	WINDING "T"
----------	-------------

Cu = 640

Wire Net = 0.575" (0.570")



DESIGNED BY HWS

DATE 2/16/42

30 to 5 Henries
 25 to 250 D. C. Ma. - 150 Ohm - 5000 V. Ins.

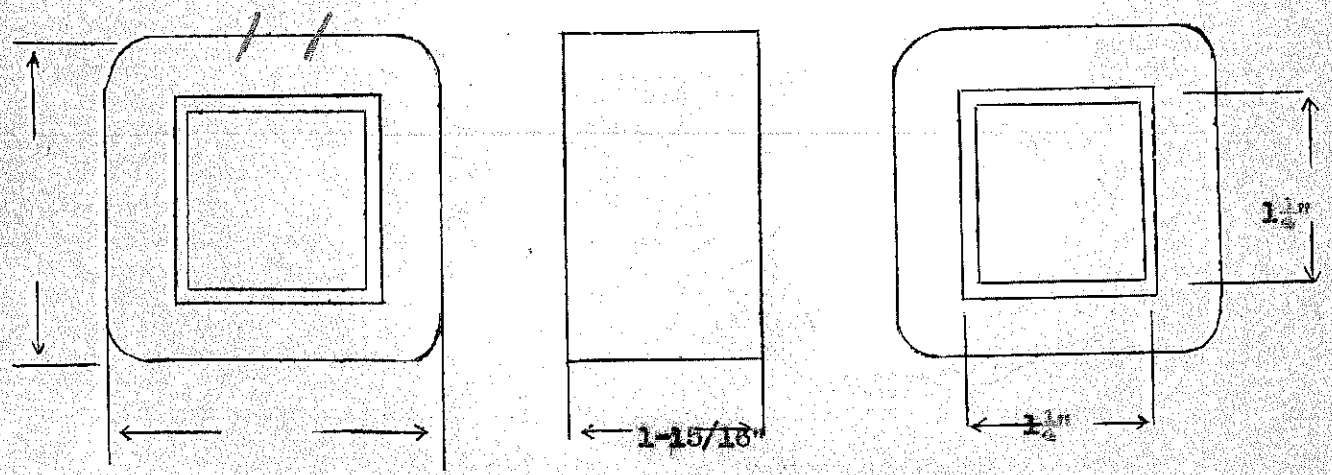
0410

SPEC. NO. 0205

Winding	FRI.						
Turns	3300						
Taps	—						
Wind. Lgth.	1 1/2"						
Wire Size	#23	90%					
T.P.L.	100-33						
Kind Term.	No. 0.						
Term. Lgth.	6"						
Layer Insul.	30#						
Test Volt.	5000						
Wrapper	21007VC 31005QA						

TUBE	21007GX - 21007VC	IMPREGNATION	VARNISH
CORE	24 Ga. 30# <i>0.015" gap</i>	PRIMARY V.A.	
MOUNTING	B or F		

$C_u = 640$
 Wire Net = 0.575" (0.570")



DESIGNED BY G. W.

DATE

30-5/16
 37° 375° de Ma - 110-0km
 7500 V insulation

SPEC. NO. C 366

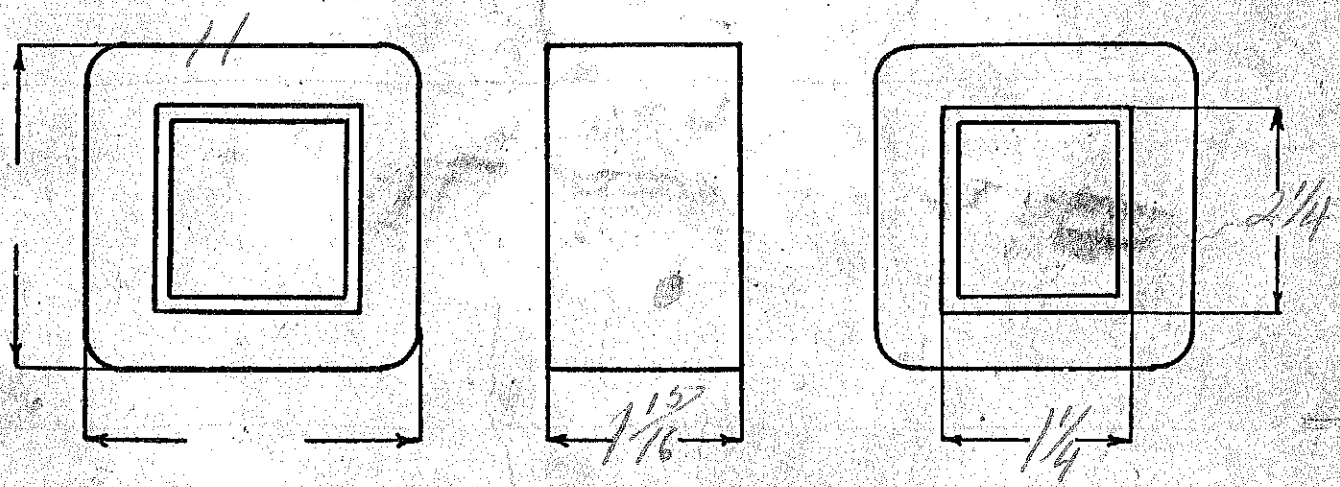
Winding						
Turns	2400					
Taps	—					
Wind. Lgth.	1 1/2					
Wire Size	#26					
T. P. L.	80-30					
Finish						
Type Lead	W.O. or Dubac leads					
Lead Lgth.	4"					
Layer Insul.	40#					
Test Volt.	7500					
Wrapper	3L007VC 2L005GA					

TUBE 7L007BK+ 2L007VC IMPREGNATION Varnish

CORE 1/4 x 2/4 GA. #24 GRADE D STACK Built 0.005" gap

MOUNTING BorF

Wire Net = 0.555" (0.570")
 Cu = 7/15



DESIGNED BY G.W.

DATE 12-8-38

Choke - Swinging
 5 to 30 Henries @ 375 Ma.
 100 ohm

SPEC. NO. C-366

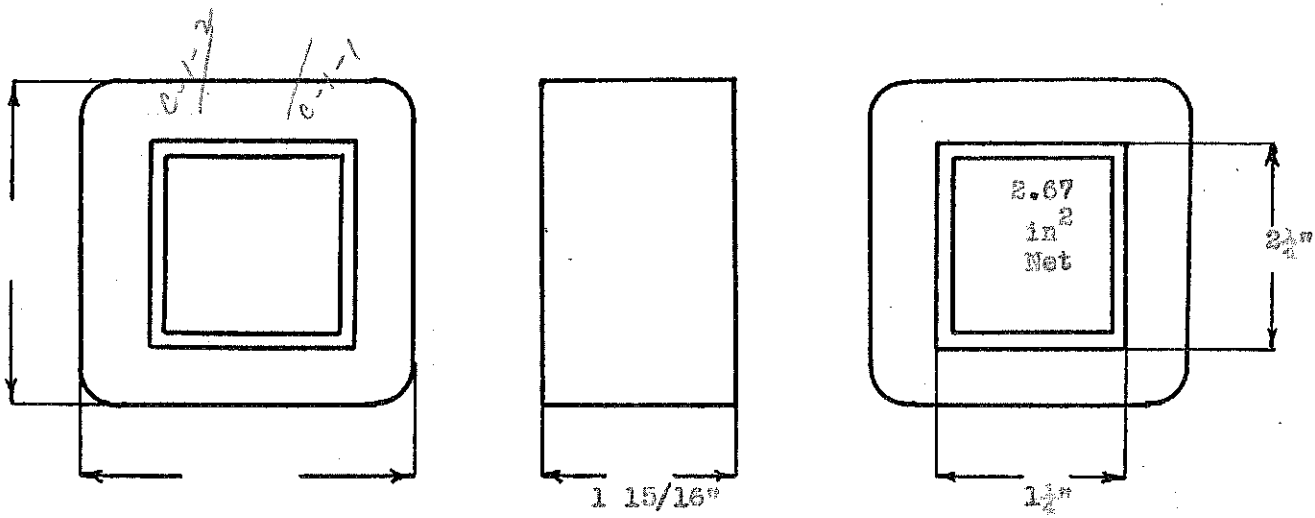
Winding		Choke				
Turns		2400				
Taps		---				
Wind. Lgth.		1 1/2" = 1.5"				
Wire Size		#26				
T. P. L.		80 - 30%				
Finish		91%				
Type Lead		W.O. or Dulac Leads				
Lead Lgth.		4"				
Layer Insul.		1L 40/G				
Test Volt.		7500				
Wrapper		2L - .007 VC 2L - .005 GA				

TUBE	7L - .007" GK & 2L - .007" VC	IMPREGNATION	VARNISH
------	-------------------------------	--------------	---------

CORE	1 1/2" x 2 1/2"	GA.	24	GRADE	D	STACK	Dutt - .005" Gap.
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MOUNTING	"35" or "F"
----------	-------------

Wire Net = 0.562" (0.570")
 Cu = 715



DESIGNED BY H.W.S.

DATE 7-26-41

Input Swinging Choke

5 - 30 Henries
 50 - 500 Mc.
 75 ohm

SPEC. NO. C-307

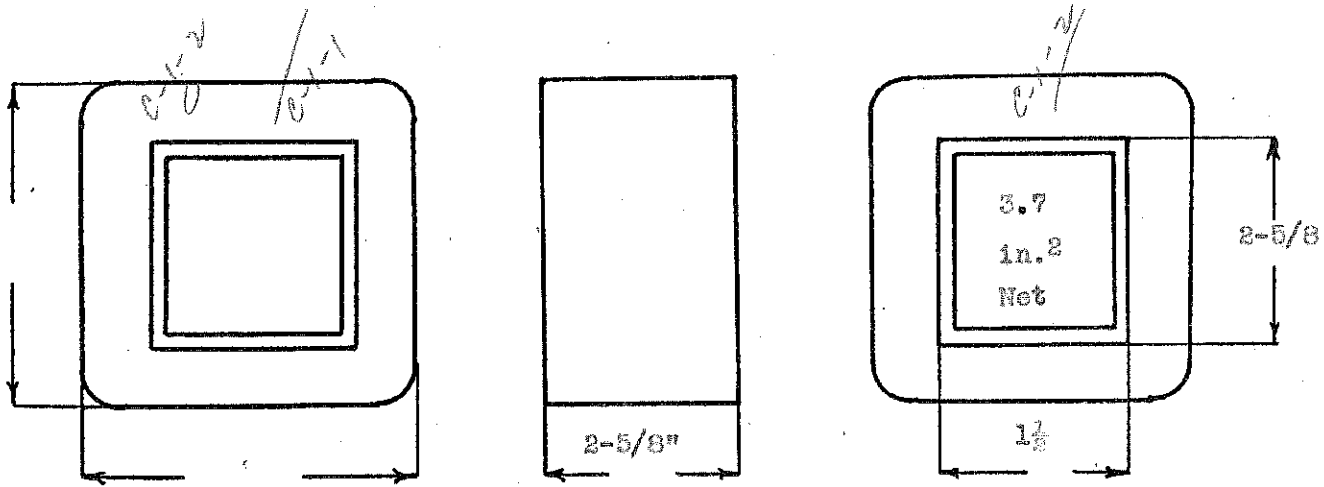
Winding	PRI.						
Turns	2500						
Taps	-----						
Wind. Lgth.	2"						
Wire Size	#24						
T. P. L.	85 - 30 L						
Finish Pitch	90%						
Type Lead	W.O.						
Lead Lgth.	6"						
Layer Insul.	Double - 30%						
Test Volt.	5000V						
Wrapper	4L - .007" VC 2L - .005" GA						

TUBE	10L - .007" GK / 2L .007" VC	IMPREGNATION	VARNISH
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CORE	1 1/2" x 2-5/8"	GA.	24	GRADE	D	STACK	Butt - 0.01" Gap
------	-----------------	-----	----	-------	---	-------	------------------

MOUNTING "C" - Stand-off Insulators

Wire Net = 0.740" (0.729")
 Cu = 607



DESIGNED BY G.W.

DATE 11-4-38

Choke - Swinging
5 to 30 Hz - 500 ma
95 w

Stock

OLD

Old Catalog

SPEC. NO. C-368

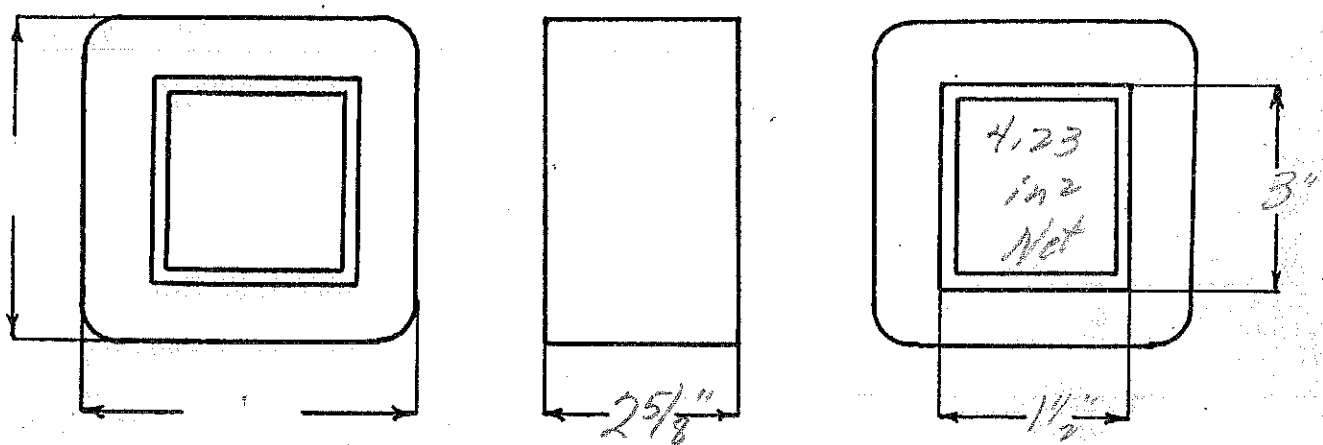
Winding	Choke					
Turns	2770					
Taps	—					
Wind. Lgth.	1 3/4" = 1.75"					
Wire Size	#25					
T. P. L.	84-32 L					
Finish	92%					
Type Lead	W. O.					
Lead Lgth.	6"					
Layer Insul.	2L 30#6					
Test Volt.	10,000					
Wrapper	4L-007" VC 2L-005" GA					

TUBE 10L-007" GK + 3L-007" VC IMPREGNATION Varnish

CORE 1 1/2" x 3" E & I GA. 24 GRADE D STACK Built .01" gap

MOUNTING "G" - Stand-off Insulators

Wire Net = 0.705" (0.696")
Cu = 640



DESIGNED BY HWS

DATE 7-26-41

Input Swinging Choke
 5 to 30 Hz - 300 Ma
 95-2

SPEC. NO. C 368

Winding	P						
Turns	2770						
Taps	-						
Wind. Lgth.	1 3/4						
Wire Size	#25						
T. P. L.	84-33						
Finish	92%						
Type Lead	W.O.						
Lead Lgth.	6"						
Layer Insul.	Double 30#						
Test Volt.	10,000						
Wrapper	5L007VC 5L005GA						

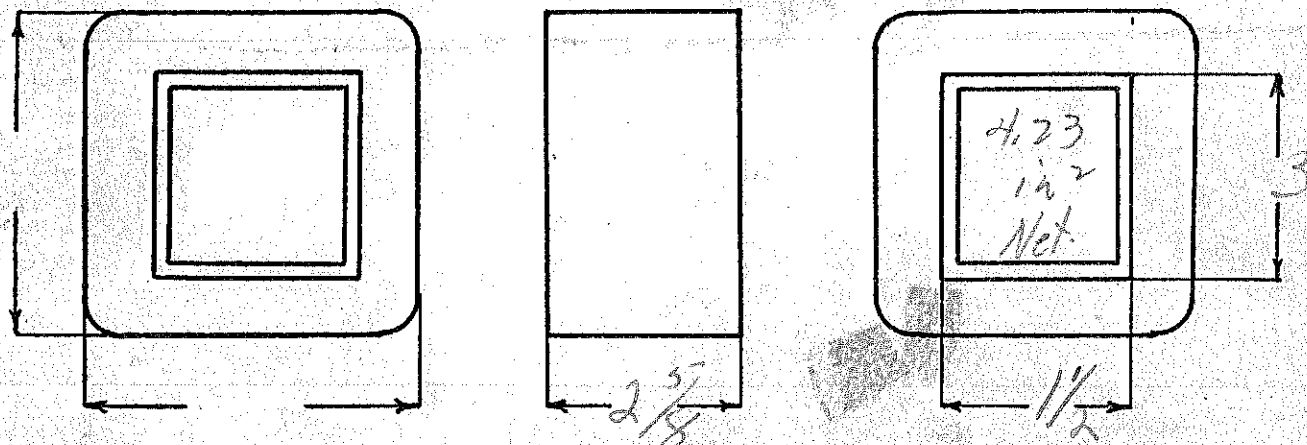
W.P. 1/2

TUBE 10L007GK+4L007VC IMPREGNATION Varnish

CORE 1/2 X 3 GA. 24 GRADE D STACK Butt 0.01" gap

MOUNTING G- Stand-off insulators

Wire Net = 0.705" (0.726")
 Cu = 640



DESIGNED BY G.K.

DATE 2-27-39

5 to 30th @ 650ma

10,000V Insulation

W.V. = 4500, 75W P.B.

Input Sump, Choke

Old Stock

Same as C-334

except for spec.

SPEC. NO. C-364

Winding		Choke					
Turns		0.160					
Taps		—					
Wind. Lgth.		1 3/4"					
Wire Size		#24					
T. P. L.		72-30L					
Finish	Black	87%					
Type Lead		* →	Start lead in coil - 6" Delta				
Lead Lgth.		6"				Start & Finish	
Layer Insul.		2L 405G					
Test Volt.		10,000V					
Wrapper		4L-007V 2L-005VA					

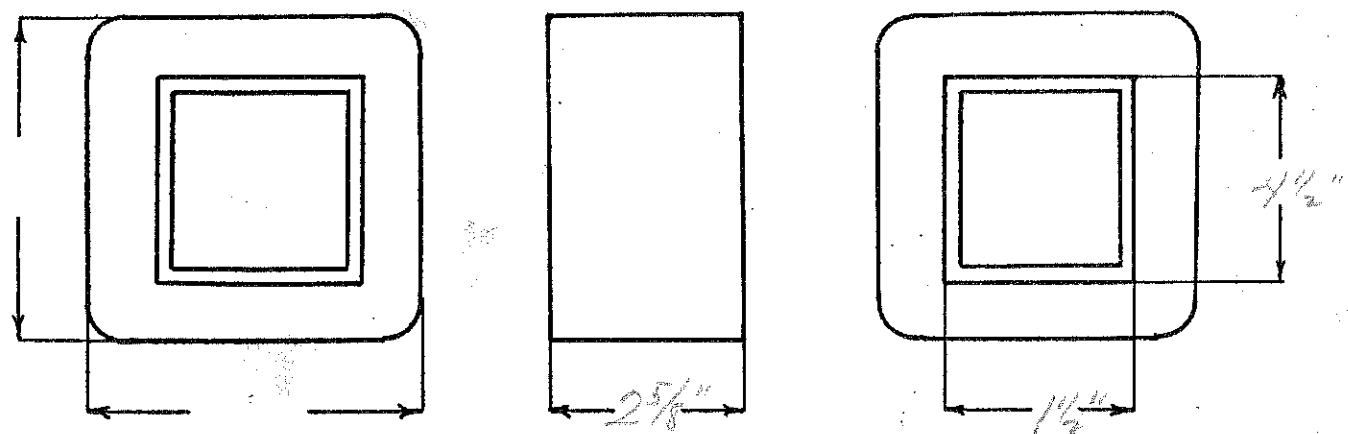
TUBE	9L-007VK + 4L-007VC	IMPREGNATION	Various
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CORE	1 1/2" x 4 1/2" E.I.	GA.	24	GRADE	D	STACK	Bot + .010" Gap
------	----------------------	-----	----	-------	---	-------	--------------------

MOUNTING "G" - Standoff Insulators

CV = 672

Wire Wt = 0.744" (0.752")



Re. DESIGNED BY Hlls

DATE 11-10-41

SWINGING CHOKE

STOCK

5-20 Hy @ 200-20 Ma.

1750 ohms 5000 volts Ins.

SPEC. NO. C370

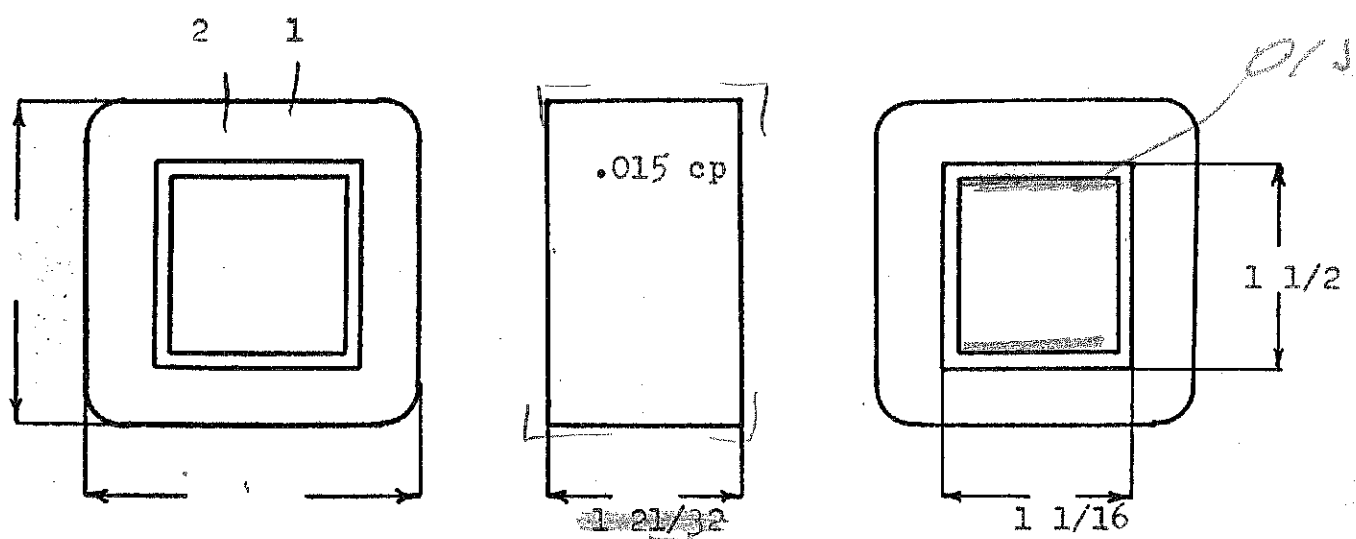
Winding		1-2 choke				
Turns		3300				
Taps		---				
Wind. Lgth.		1 7/32"				
Wire Size		#29				
T. P. L.		92-36L				
Finish		92%				
Type Lead		Silver Plaid				
Lead Lgth.		3"				
Layer Insul.		40#				
Test Volt.		5000				
Wrapper		2L007VC 5L003CA 2L005GA				

TUBE 7L007GK plus ~~1L007VC~~ IMPREGNATION Double Varnish

CORE 1 1/16 x 1 1/2 GA. 24 GRADE D STACK Butt .010" Gap

MOUNTING BB - Lugs

T. P. V. -
window - $.615 / .656 = 93.8\%$



DESIGNED BY

F.F.

DATE

1 5/8

DESIGN AND TEST DATA

Rating:

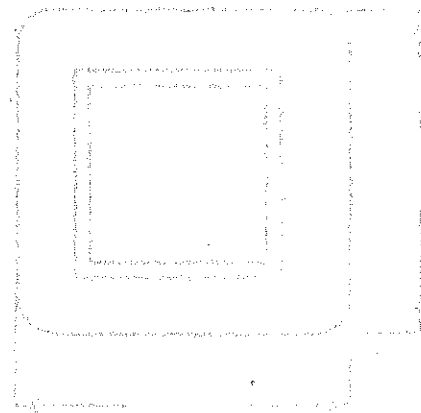
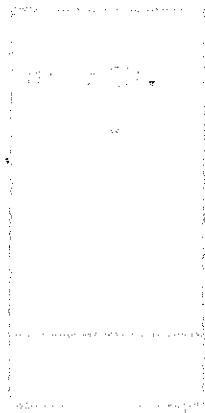
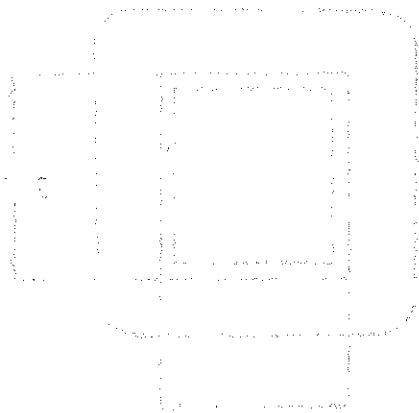
Winding		1-2 choke					
Mean Turn		8.5					
Resistance 25° c		189 ohms					
Pounds Copper		.895					
Copper Density		635					
Ratio Volts							
Test to Ground		5000					

Iron Induction @ Cycles

Exciting Current amperes @ volts 60 cycles on

Induced Test: Apply Volts at Cycles on with grounded

Remarks:



30 - 5 Henries
 20 - 200 D.C. Ma. - 150 Ohm - 5000 V. Ins.

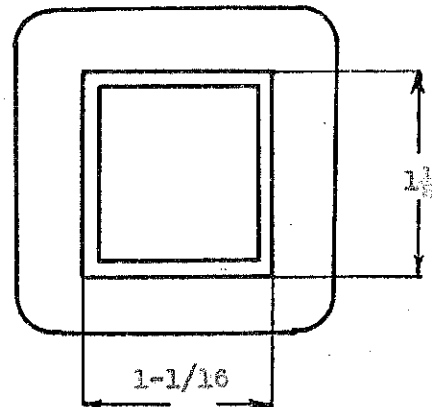
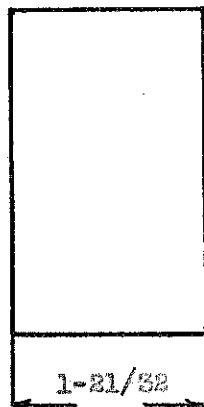
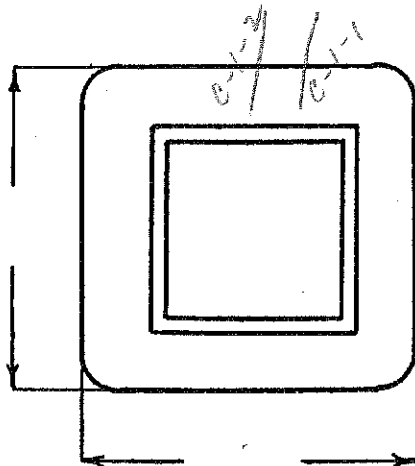
175 W

SPEC. NO. C-370

Winding	CHOKE					
Turns	3300					
Taps	--					
Wind. Lgth.	1-7/32" = 1.218"					
Wire Size	#20					
T. P. L.	92 - 36 L					
Finish pitch	92%					
Type Lead	W.O.					
Lead Lgth.	3"					
Layer Insul.	40%					
Test Volt.	5000					
Wrapper	2L - .007" VC 2L - .005" GA					
TUBE	7L - .007" / 1L - .007" VC	IMPREGNATION		VARNISH		
CORE	1/16" X 1/2"	GA.	24	GRADE D	STACK .015" Gap	
MOUNTING	W/W/W "F"					

Wire Net = 0.482" (0.511") - 94.3%

Cu = 635



DESIGNED BY G.W.

DATE 7-8-39

3000 V.

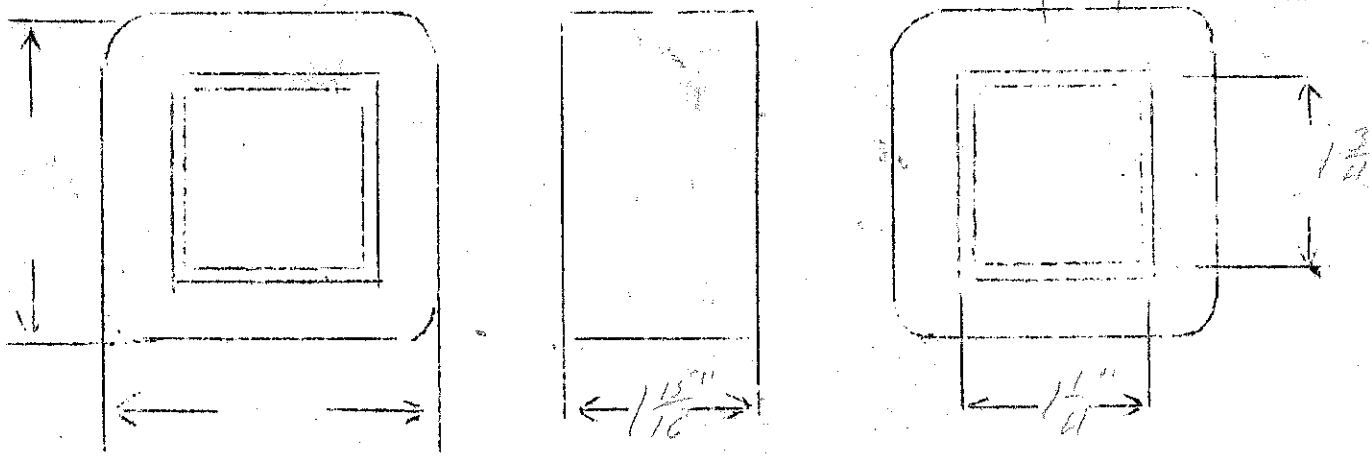
SPEC. NO. 371

Winding	PR. I.						
Turns	3000						
Taps	—						
Wind. Lgth.	1.75						
Wire Size	#26						
T.P.L.	90						
Kind Term.							
Term. Lgth.							
Layer Insul.	not						
Wrapper	120076 260076						

TUBE | 12007 12007 V.C. | IMPREGNATION

CURE | 1 1/4" x 1 3/4" | 8 x 8" stock

Very hard to stock, keep tension till
chg To Hard to stock

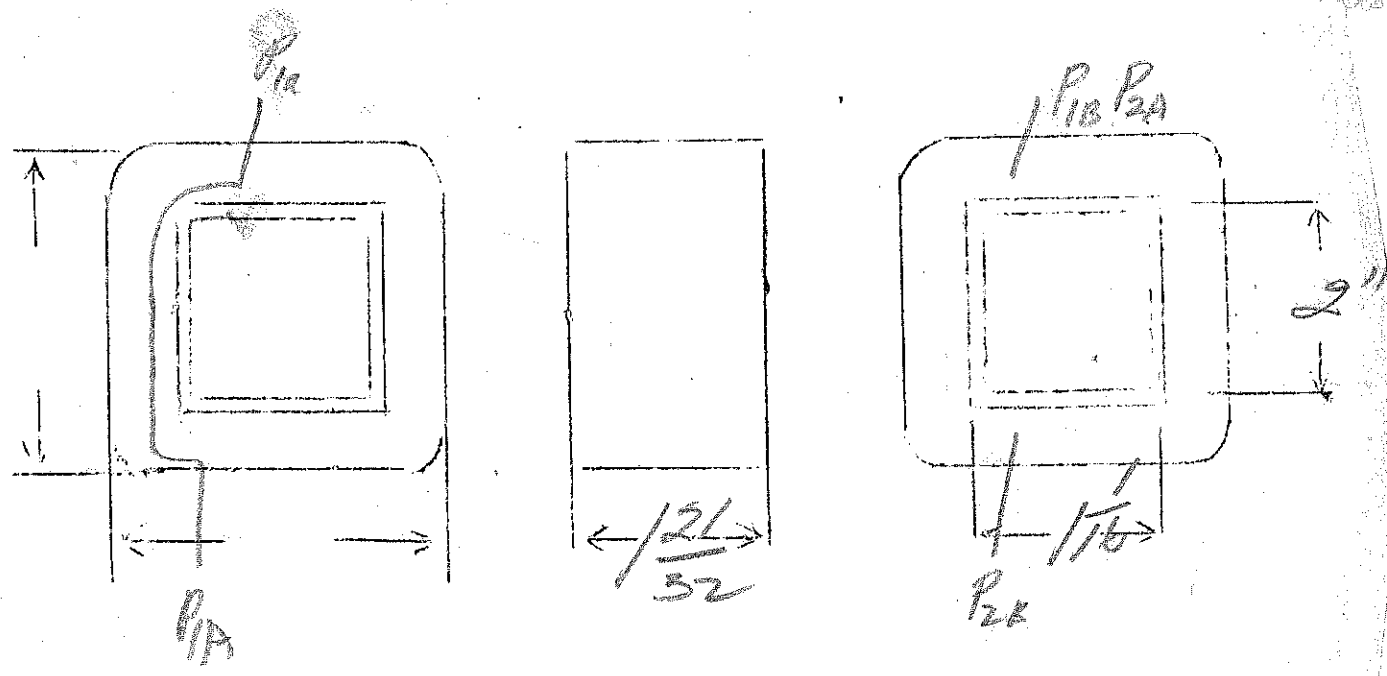


220-110 step down - 75watt

53

SPEC. NO. 380-25 N TM

Continuation						
Winding	P ₁	P ₂				
Turns	610	580				
Taps	—	—				
Wind. Lgth.	1 $\frac{15}{32}$	1 $\frac{15}{32}$				
Wire Size	#23	#26				
T.P.L.	56-11	74-8				
Kind Term.	WIRES ONLY					
Term. Lgth.	3"	3"				
Layer Insul.	50#	50#				
Wrapper	24056A					
TUBE	7L007		IMPREGNATION	Varnish		
CURE	1 $\frac{1}{16}$ X 2"					



200Ma
Modulation Choke

OLD

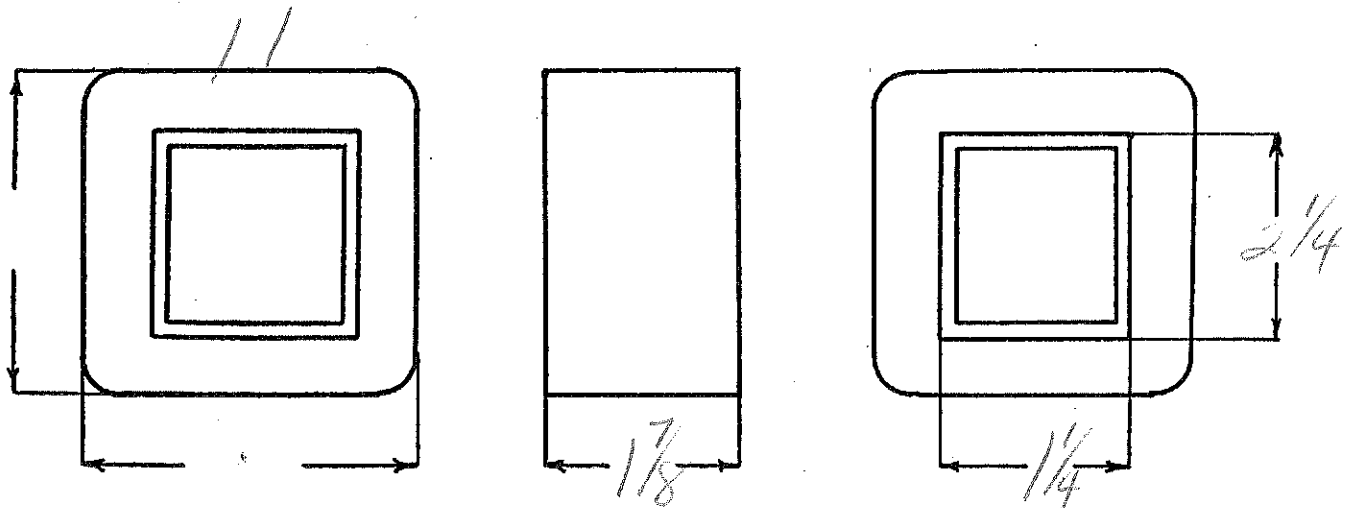
SPEC. NO. C381

Winding	Pri						
Turns	4680						
Taps	-						
Wind. Lgth.	1 9/16						
Wire Size	#29						
T. P. L.	117-40						
Finish							
Type Lead	W.O.						
Lead Lgth.	4"						
Layer Insul.	40#						
Test Volt.	5000						
Wrapper	2L007VC 2L007GA						

TUBE 9L0076K+2L007VC IMPREGNATION Varnish

CORE 1/4 X 2/4 GA. 24 GRADE D STACK Built 0.03" gap

MOUNTING F



DESIGNED BY JCG

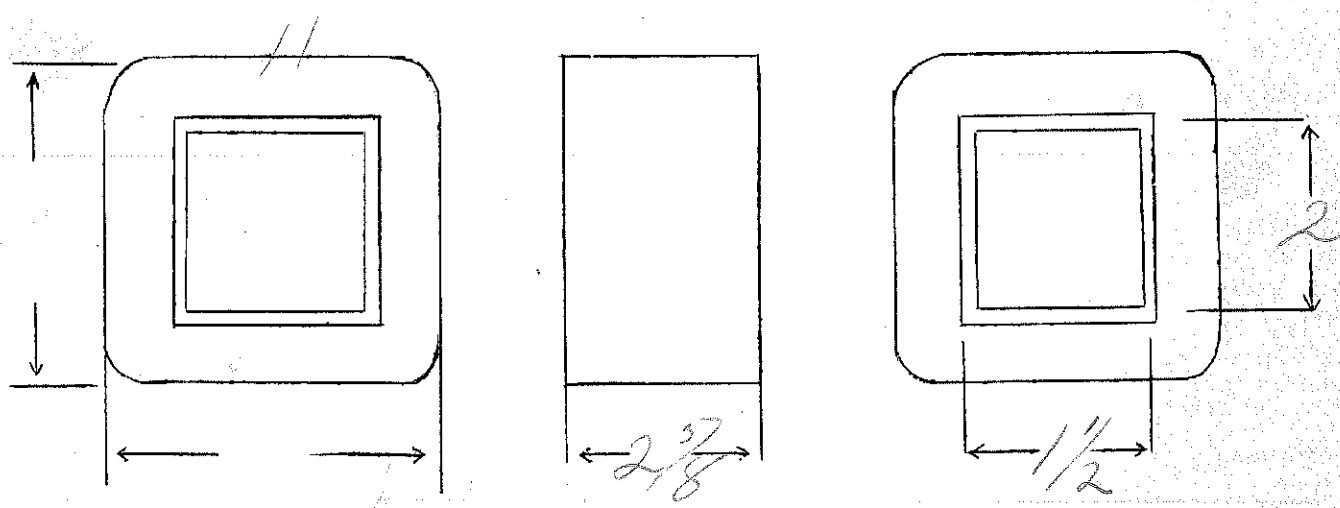
DATE 7-8-39

OLD

50 Henries
300 D. C. Ma. - 225 Ohm - 5000 V. Ins.

SPEC. NO. 0382

Winding	<i>Pri</i>						
Turns	<i>5400</i>						
Taps							
Wind. Lgth.	<i>2 1/8</i>						
Wire Size	<i>#27</i>						
T.P.L.	<i>130-42</i>						
Kind Term.	#20 <i>110</i>						
Term. Lgth.	<i>3"</i>						
Layer Insul.	<i>50 #</i>						
Test Volt.	<i>5000V</i>						
Wrapper	2L007G <i>2L007VC</i> <i>2L007GA</i> <i>W.M. 1/3/44</i>						
TUBE	<i>9L007GK+2L007VC</i>		IMPREGNATION	VARNISH			
CORE	<i>1 1/2 X 2 0.03" gap</i>		PRIMARY V.A.				
MOUNTING	B or G						



DESIGNED BY G. W.

DATE

Line Booster

100-105-110-115-120-125V

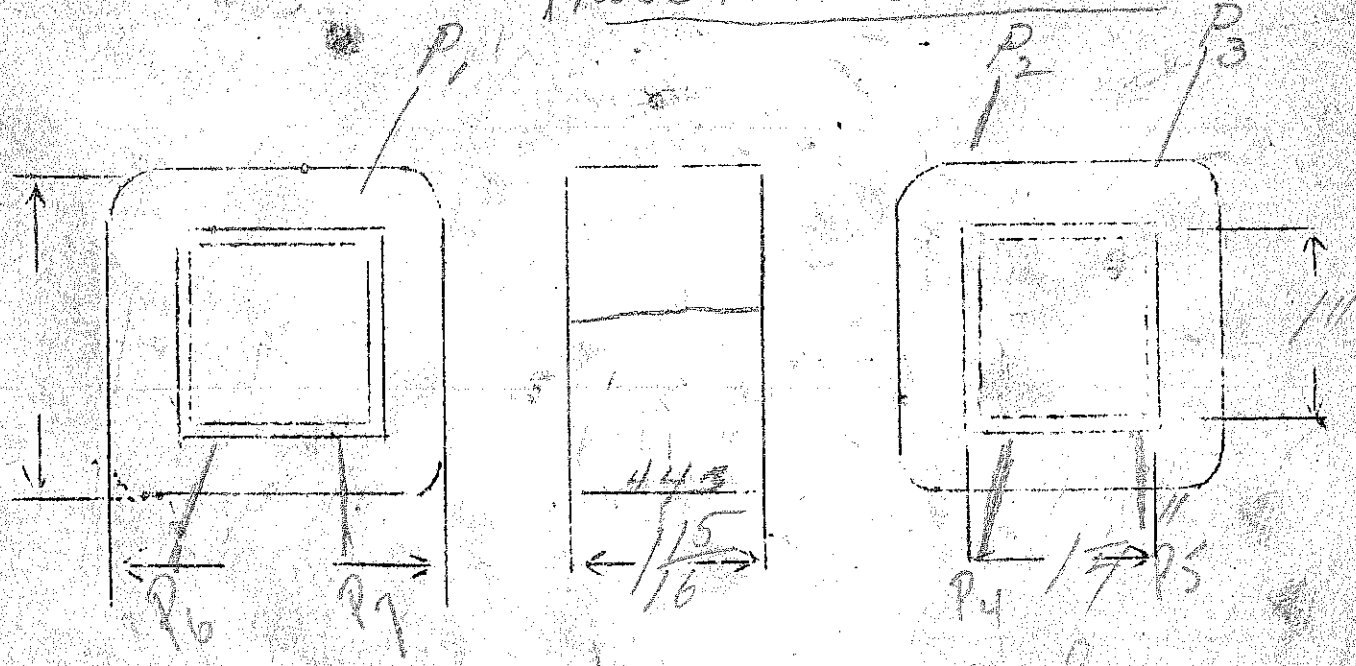
$$\frac{N}{E} = 46$$

250 watt

SPEC. NO. 383 or 5443

Winding	Continuous				
Turns	460	140			
Taps	-	175 -	92 -	68 -	44
Wind. Lgth.	1.75	1.25			
Wire Size	#23	#19			
T.P.L	67-7				
Kind Term.	WIRE ONLY				
Term. Lgth.	8"	8"			
Layer Insul.	504	005			
Wrapper	1 L0076	2 L0076A			
TUBE	91007		IMPREGNATION	VARNISH	
CURE	1 1/2 hr @ 110°				

Watch Lead Position



assembled on bench

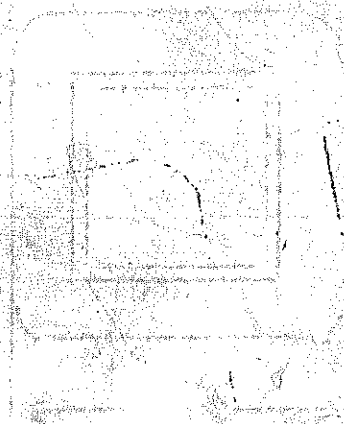
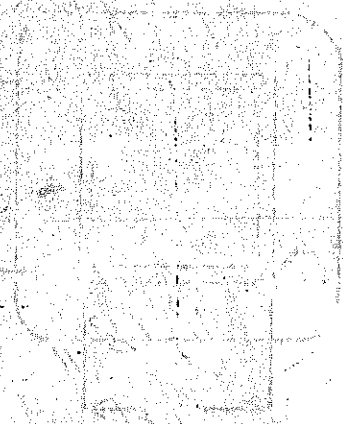
0
105
0
100
0
443

50-60-CYL
0 0
115 120
0.350 0
110-VA-125

~~MP
135
60
323~~

~~50-60-CYL
130
0
110 120
0.350 0
110-VA-125~~

MIS 0.50 WATT



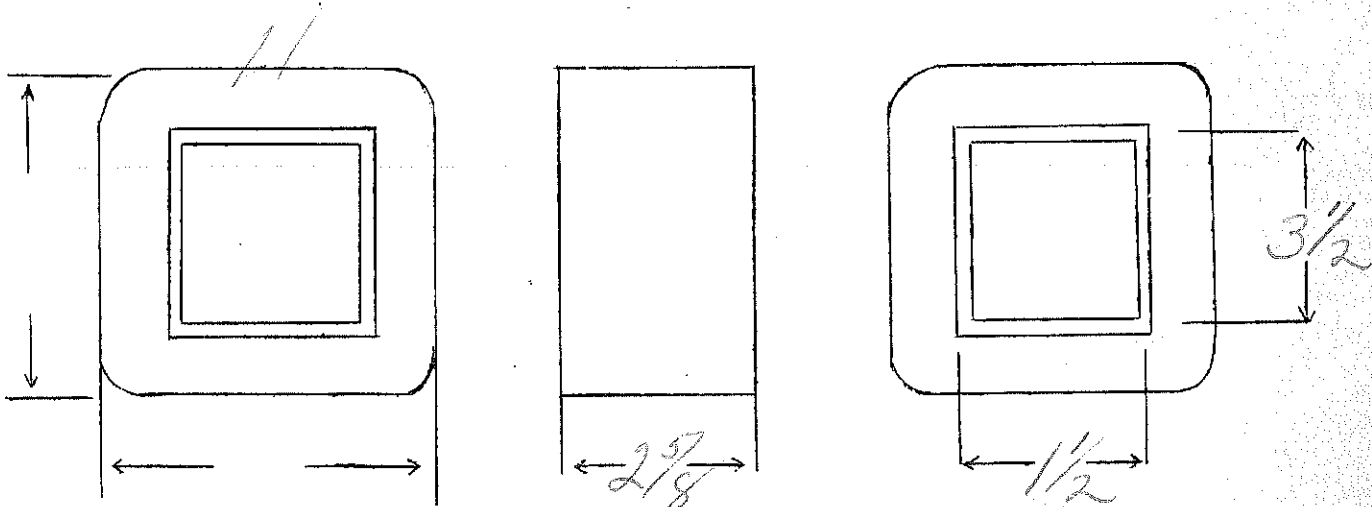
50 Henries
 300 D. C. Ma. - 225 Ohm - 10,000 V. Ins.

OLD

SPEC. NO. 6894

Winding	<i>Pri</i>						
Turns	<i>4400</i>						
Taps							
Wind. Lgth.	<i>1 3/4</i>						
Wire Size	<i>#27</i>						
T.P.L.	<i>102-44</i>						
Kind Term.	<i>W.O.</i>						
Term. Lgth.	<i>4"</i>						
Layer Insul.	<i>50 #</i>						
Test Volt.	<i>10000 V</i>						
Wrapper	<i>4L007VC 2L007GA</i>						

TUBE	<i>9L007GK + 2L007VC</i>	IMPREGNATION	VARNISH
CORE	<i>1 1/2 x 3 1/2 0.015" gap</i>	PRIMARY V.A.	
MOUNTING	<i>6</i>		



DESIGNED BY *G. W.*

DATE *4-6-37*

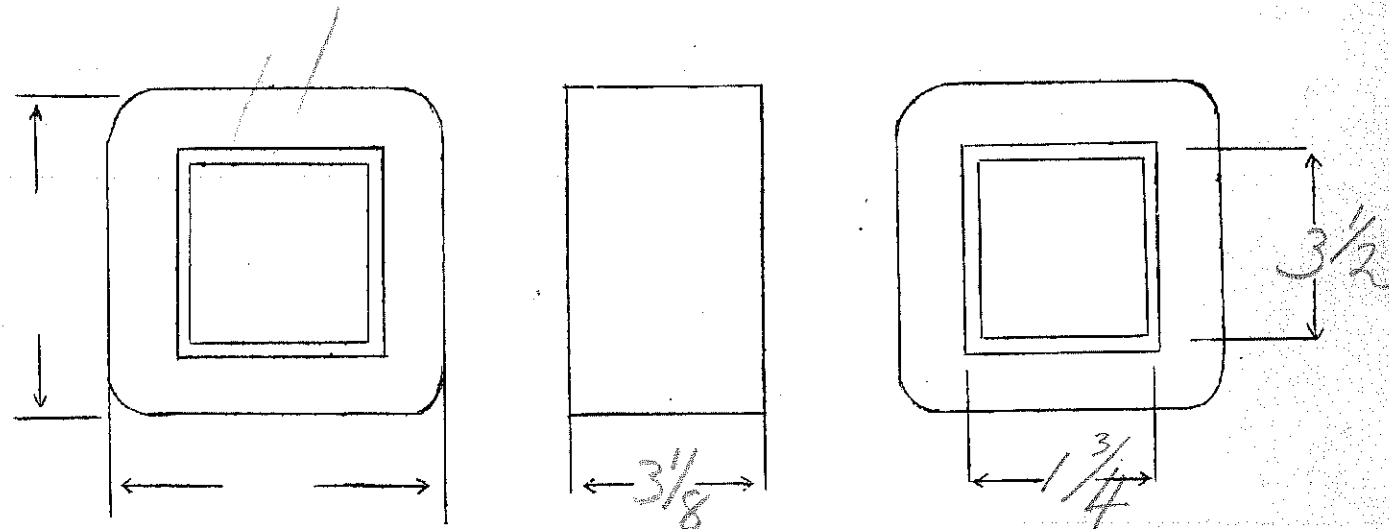
50 Henries
 400 D. C. Ma. - 200 Ohm - 10,000 V. Ins.

6LD

SPEC. NO. 0325

Winding	Pri						
Turns	5400						
Taps	-						
Wind. Lgth.	2 1/6						
Wire Size	#26						
T.P.L.	108-50						
Kind Term.							
Term. Lgth.	4"						
Layer Insul.	50 [#]						
Test Volt.	10000						
Wrapper	46007VC 32007GA						

TUBE | 106007GK + 46007VC | IMPREGNATION | VARNISH
 CORE | 24 Ga "D" - .030" gap | PRIMARY V.A.
 MOUNTING | 6



DESIGNED BY G. W.

DATE 7-10-39

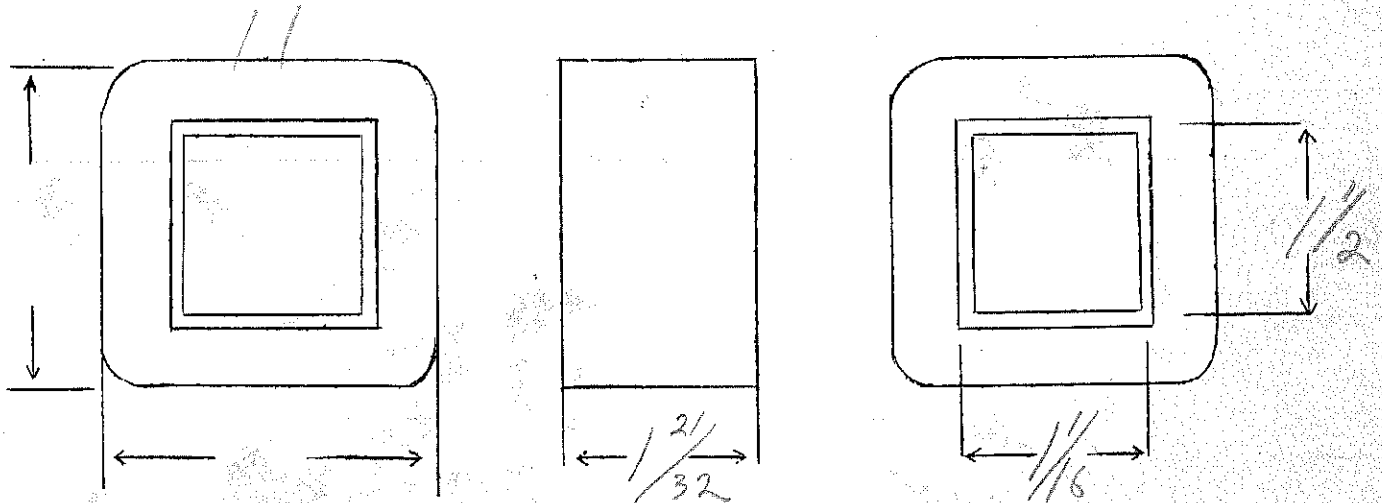
40 Henries
 125 D. C. Ma. - 500 Ohm - 2500 V. Ins.

065

SPEC. NO. C386

Winding	Pri						
Turns	6200						
Taps	-						
Wind. Lgth.	1 7/16						
Wire Size	#31						
T.P.L.	135-46						
Kind Term.	#20 P.B.						
Term. Lgth.	9"						
Layer Insul.	30 th						
Test Volt.	2500						
Wrapper	360056A						

TUBE	76007GK	IMPREGNATION	VARNISH
CORE	1/16 x 1/2	0.014" gap	PRIMARY V.A.
MOUNTING	A or B		



DESIGNED BY G. W.

DATE 7-10-39

Plate

New Stock

117V @ 60 cycle

(Cable Input)

1850VCT @ 200ma (750V.D.C.)

1550VCT @ 200ma (600V.D.C.) By taps in primary

SPEC. NO. P386
See P470

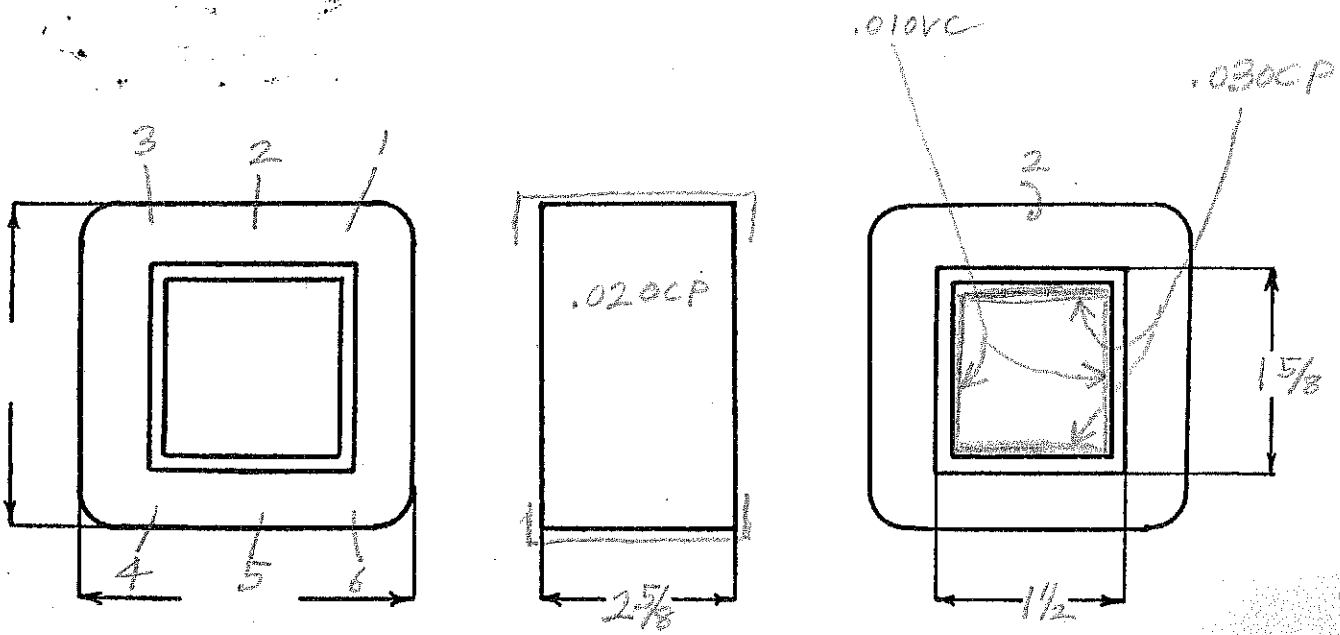
Winding	1-2-3 Sec	4-5-6 Pri			
Turns	4650	323			
Taps	2325	270			
Wind. Lgth.	2 1/8	2 1/8			
Wire Size	#29	#18			
T. P. L.	155-30L	47-7L			
Finish	89%	93%			
Type Lead	#20 Delac	var. ll.			
Lead Lgth.	6"	6"			
Layer Insul.	Tap wound 30#	1L005GA			
Test Volt.	4000	1500			
Wrapper	1L005CA 1L005VC 1L010CP	2L007GA			

TUBE 7L010GK+1L005CA IMPREGNATION Double Varnish

CORE 1/2 x 1 9/16 GA. 24 GRADE D STACK 2x2

MOUNTING M - Stand off insulators secondary; Target Tap primary

W. = 87%



DESIGNED BY A. Hadley

DATE 6-21-50

DESIGN AND TEST DATA

Rating: $I_g = 14 \text{ ma}$ H1 L0

Sec VA	188	155
Pri VA	238	195
I_p	2.07	1.70

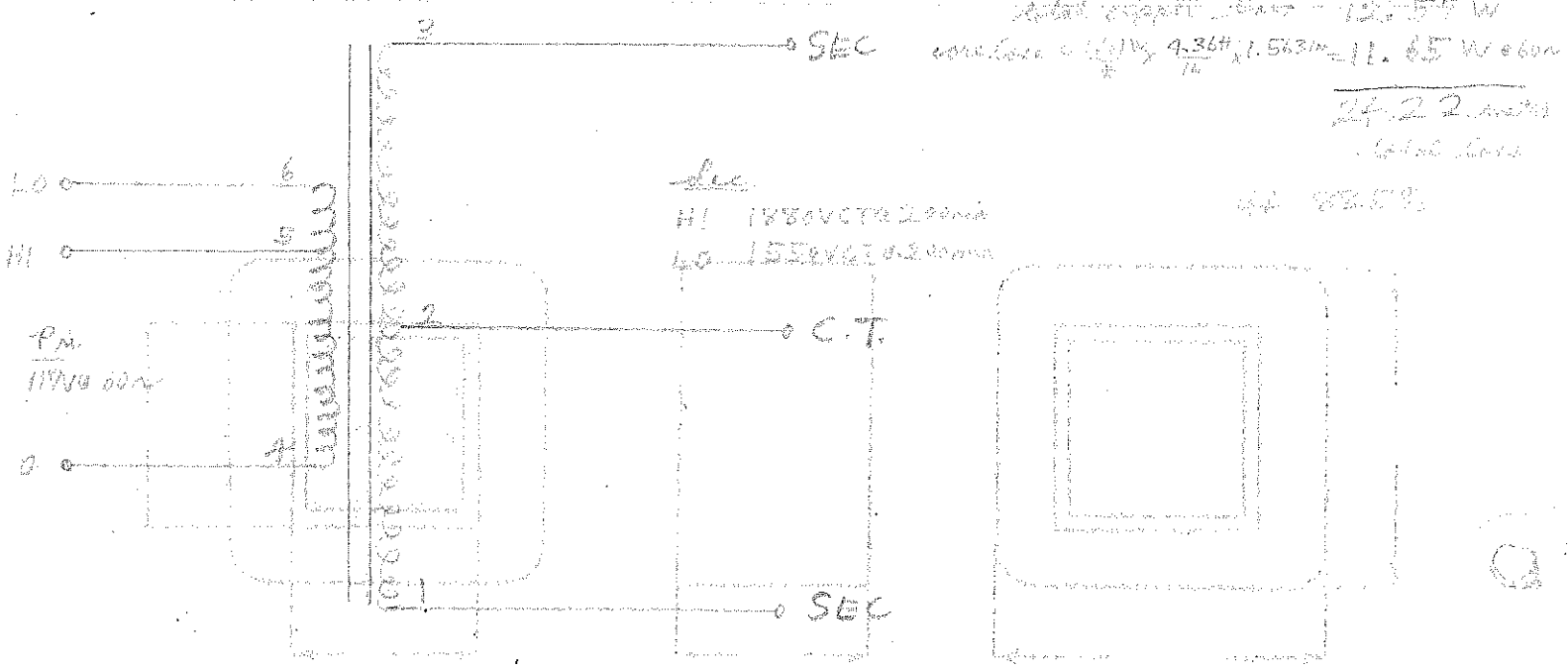
Winding	1-2-3 <i>Sec</i>	4-5-6 <i>Pri</i>			
Mean Turn	8.41	11.38			
Resistance 25° c	272	1.67-1.99			
Pounds Copper	1.28	1.53			
Copper Density	898	785			
Ratio Volts	<i>open circuit</i>	1685-2020	117		
	<i>load</i>	1590-1910	117		
Test to Ground	4000	1500			

Iron Induction $H1$ 12.00g @ 60 Cycles *with 1.17V ampri*

Exciting Current $L0$ 300 mA @ 60 volts 60 cycles on *1-5*

Induced Test: Apply *117* Volts at *60* Cycles on *1-5* with *1-6* grounded

Remarks: $H1$ $I_p = 2.07 \times 2.07 \times 1.57 = 7.17$
 $L0$ $I_p = 1.70 \times 1.70 \times 1.57 = 4.56$
 Total Copper Loss = 12.55 W
 core loss = $(1.17)^2 \times 4.36 \times 1.57 = 11.65 \text{ W @ } 60 \text{ Hz}$
 24.22 watts
 Total Loss



Plate

new stock

117V @ 60 cycles

to

1880V CT @ 200ma (750V.D.C)

1550V CT @ 200ma (600V.D.C)

By taps in primary

(Choke Input)

SPEC. NO. P 386

See P470

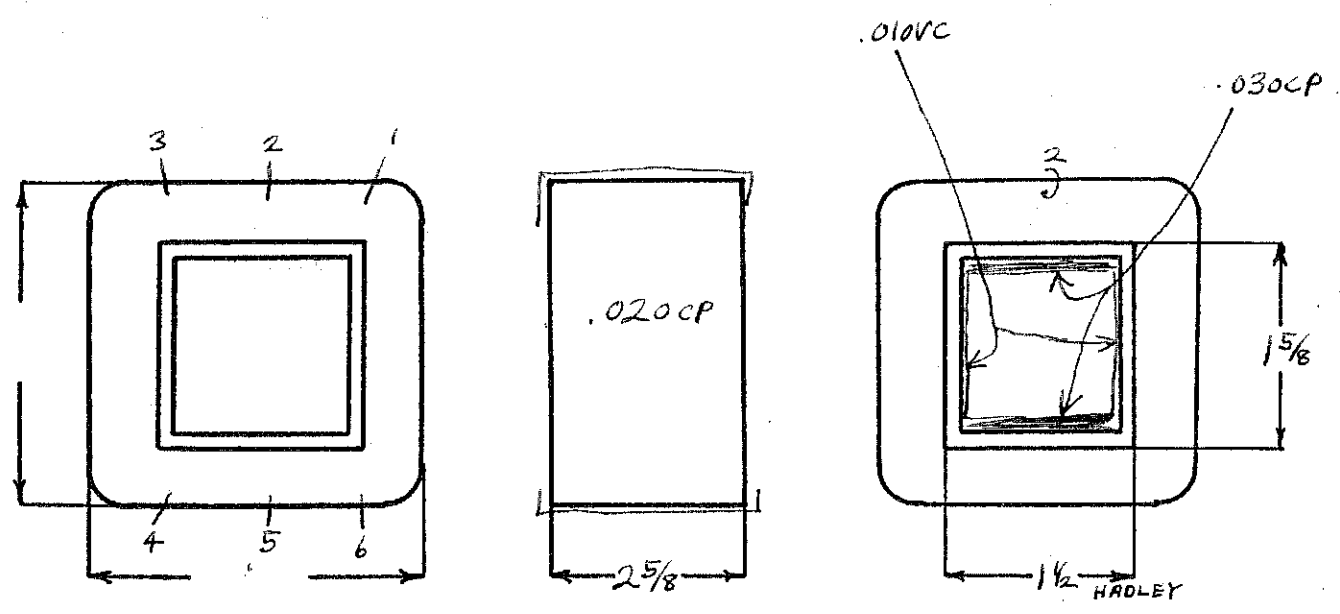
Winding	1-2-3 <i>sec</i>	4-5-6 <i>Pri</i>			
Turns	4650	323			
Taps	2325	270			
Wind. Lgth.	2 1/8	2 1/8			
Wire Size	#29	#18			
T. P. L.	155-30L	47-7L			
Finish <i>Pitch</i>	89%	93%			
Type Lead	#20 <i>Dulac</i>	w.o. <i>var. ll.</i>			
Lead Lgth.	6"	6"			
Layer Insul.	<i>Lap wind</i> 30#	1L005GA			
Test Volt.	4000	1500			
Wrapper	1L005CA 1L005VC 1L010CP	2L007GA			

TUBE 7L010GH + 1L005CA IMPREGNATION Double Varnish

CORE ^{HADLEY} 1 1/2 x 1 9/16 GA. 24 GRADE D STACK 2 X 2

MOUNTING M - Stand off insulators secondary ; Largest legs primary

wn = 87%



DESIGNED BY A. Hadley

DATE 6-21-50

DESIGN AND TEST DATA

Rating: $I_s = 141\text{ma}$

	HI	LO
Sec VA	188	155
Pri VA	235	195
I_p	2.07	1.70

Winding	1-2-3 <i>sec</i>	4-5-6 <i>Pri</i>			
Mean Turn	8.41	11.38			
Resistance 25° c	272	1.67-1.99			
Pounds Copper	1.28	1.53			
Copper Density	898	785-956			
Ratio Volts	<i>open circuit</i>	1685-2020	117		
	<i>load</i>	1590-1910	117		
Test to Ground	4000	1500			

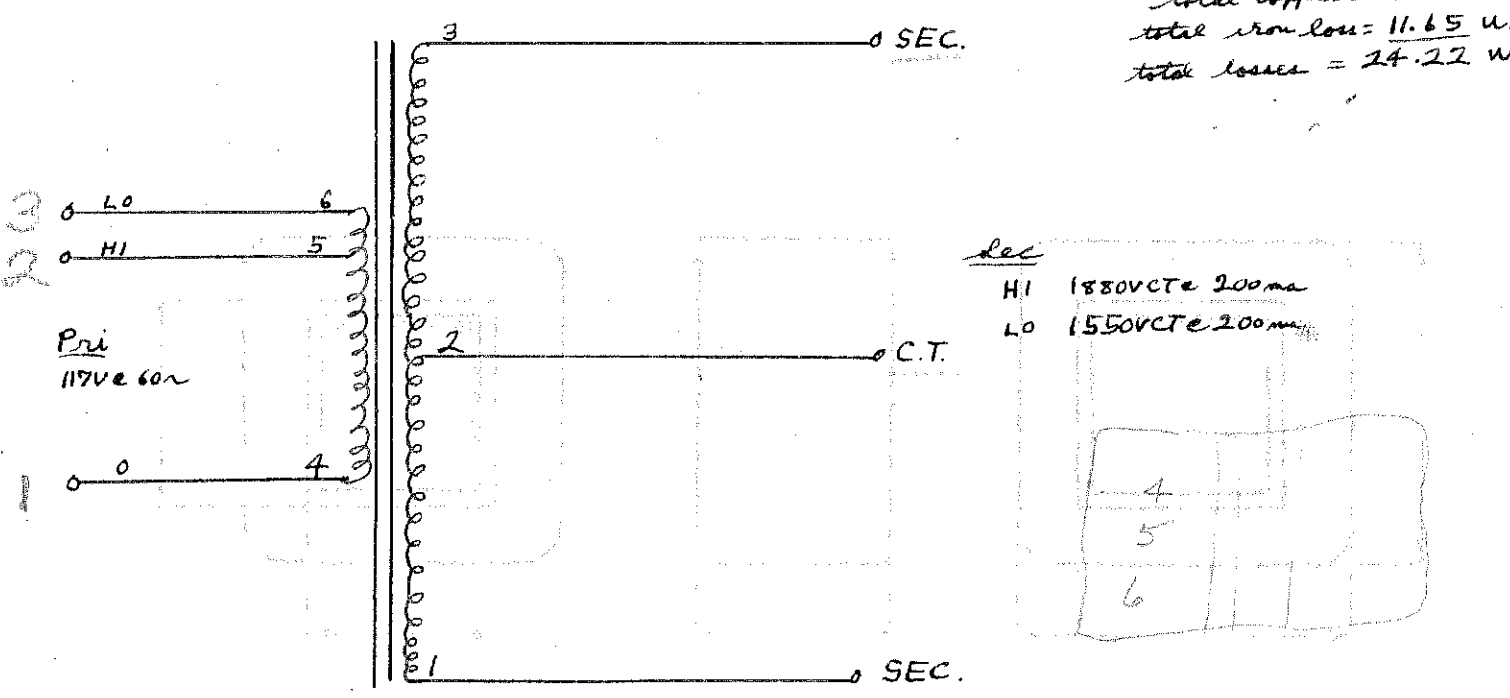
Iron Induction H_i 12.0kg
 H_o 10.0kg @ 60 Cycles with 117V on pri

Exciting Current 300 milli amperes @ 117 volts 60 cycles on 4-5

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

Remarks:

Handwritten calculations:
 $I^2 R_{loss\ pri} = 7.17$
 $" " \text{ sec} = 5.40$
 total copper loss = 12.57 w.
 total iron loss = 11.65 w.
 total losses = 24.22 w.



Handwritten component list:
 HI 1880VCTe 200ma
 LO 1550VCTe 200ma

PLATE

new STOCK

117V
 115 volts @ 50/60 cycle to
 3550 volts CT @ 200 ma. (1500V DC) or
 3000 volts CT @ 200 ma. (1250V DC)
 By taps in primary

SPEC. NO. P468 P388

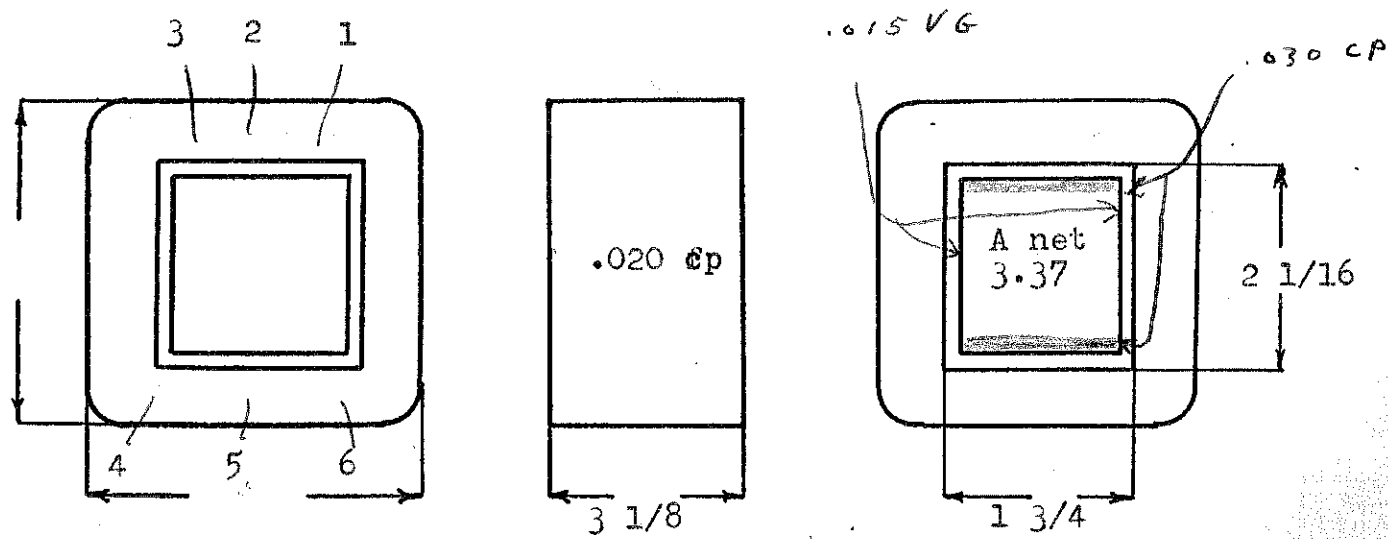
Winding	1-2-3 Sec.	4-5-6 Pri.			
Turns	7760	275			
Taps	3880	233			
Wind. Lgth.	2 5/8	2 5/8			
Wire Size	#29	#16			
T. P. L.	194-40L	46-6L			
Finish	90%	92%			
Type Lead	#22 Dulac	W.O. Var.	SL.		
Lead Lgth.	6"	6"			
Layer Insul.	Double 30# Lapped	1L007GA			
Test Volt.	6000	1250			
Wrapper	2L007VG interleafed 2L007GA 2L30#	3L007GA			

TUBE 12L007GK plus 2L005VG
 1L007VG IMPREGNATION Double Varnish

CORE 1 3/4 x 2 GA. 24 GRADE D STACK 2 x 2

MOUNTING M

T.P.V. - 2, 2.4
 Window - $1.136 / 1.25 = 90.8\%$



DESIGNED BY F. Frazee

DATE 6-4-47

DESIGN AND TEST DATA

Rating: **I** sec. (rms) - 141 ma.

Sec. VA
Pri. VA
I Pri.

HI	LO
355	300
438	370
3.81	3.22

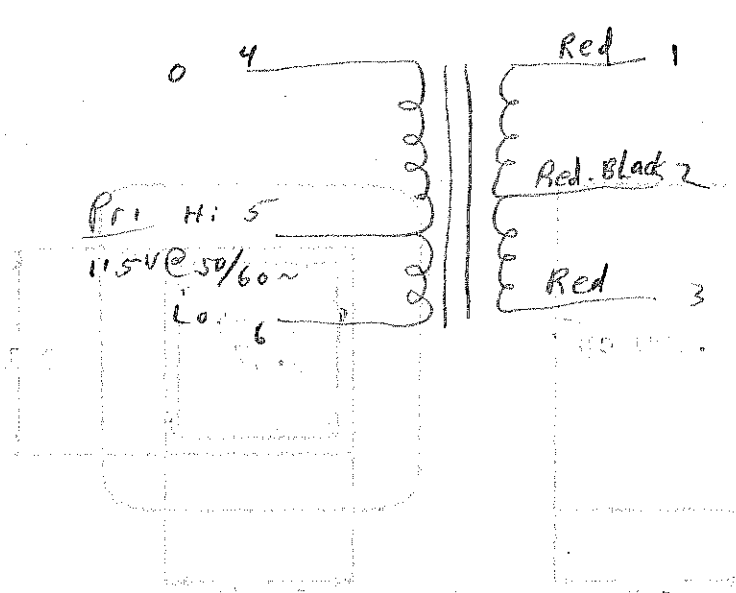
Winding	1-2-3 Sec.		4-5-6 Pri.			
Mean Turn	10.70		14.59			
Resistance 25° c	579		1.15 - 1.41			
Pounds Copper	2.70		2.67			
Copper Density	898		679			
Ratio Volts	HI - 1915-1915		115			
	LO - 1620-1620					
Test to Ground	6000		1250			

Iron Induction 11.2 kg @ 50 Cycles

Exciting Current 274 milli amperes @ 115 volts 60 cycles on 4-5

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

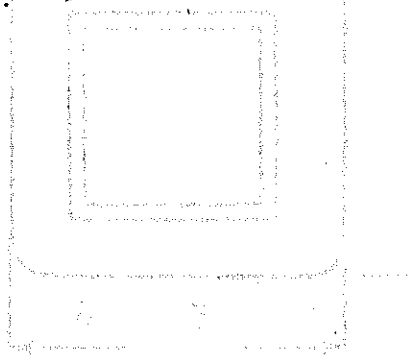
Remarks:



Sec. I

Hi - 3550 v ct @ 200 ma

Lo. 3000 v ct @ 200 ma



Plate

New stock

117 V @ 50/60 ~ to
 3550 V.C.T. @ 200ma. (1500V D.C.) or
 3000 V.C.T. @ 200ma. (1250 V.D.C.)
 By taps in primary

SPEC. NO. P 388
 See P 468

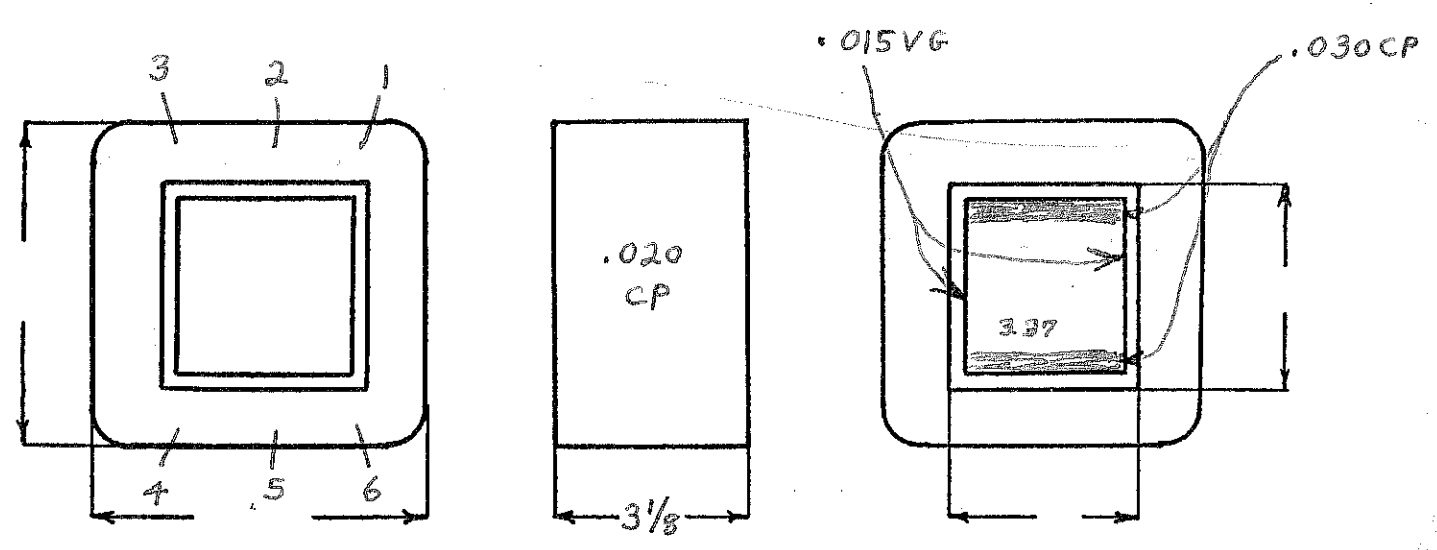
Winding	1-2-3 <i>sec</i>	4-5-6 <i>Pri</i>				
Turns	7760	275				
Taps	3880	233				
Wind. Lgth.	2 5/8	2 5/8				
Wire Size	# 29	# 16				
T. P. L.	194-40L	46-6L				
Finish <i>Pitch</i>	90%	92%				
Type Lead	#22 <i>Dulac</i>	nr. 0. <i>Var. dl.</i>				
Lead Lgth.	6"	6"				
Layer Insul.	Double 30# Lapped	1L007GA				
Test Volt.	6000	1250				
Wrapper	2L007VG 2L007GA	3L007GA				

TUBE 12L007GK + 1L007VG IMPREGNATION Double Varnish

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

MOUNTING M

Wm = 91%



DESIGNED BY F. FRAZEE

DATE 6-4-47

DESIGN AND TEST DATA

Rating: $I_s = 141 \text{ ma (RMS)}$

H_i
 Sec VA = 355 300
 Pri VA = 438 370
 $I_p = 3.81a$ 3.22a

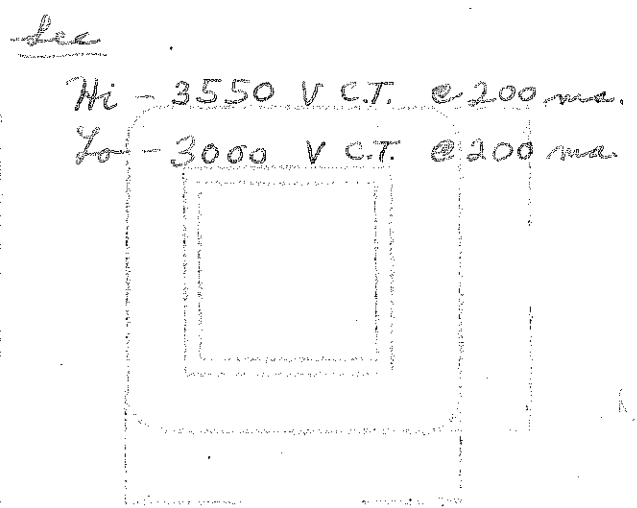
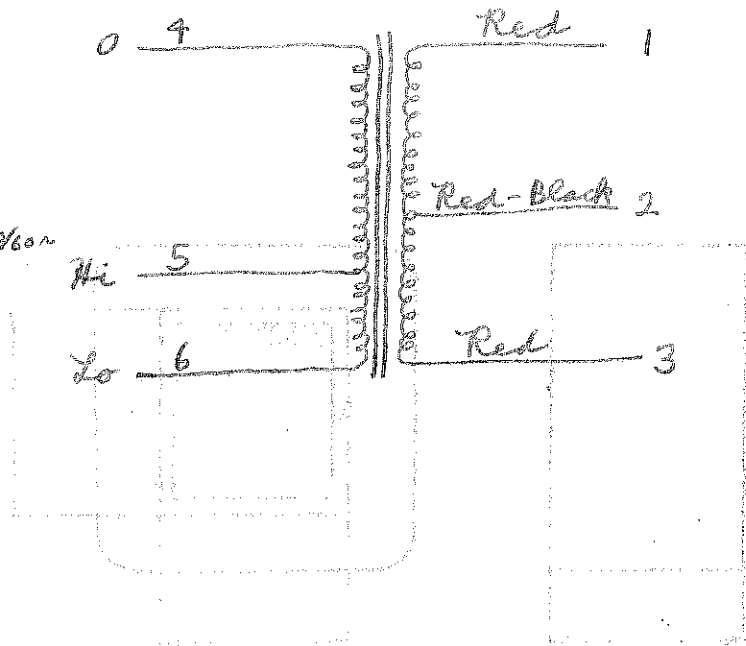
Winding	1-2-3 <i>Sec</i>	4-5-6 <i>Pri</i>				
Mean Turn	10.70	14.59				
Resistance 25° c	579	1.15-1.41				
Pounds Copper	2.70	2.67				
Copper Density	898	679				
Ratio Volts	H_i 1715-1715 L_o 1620-1620	115				
Test to Ground	6000	1250				

Iron Induction 11.2 Kg @ 50 Cycles

Exciting Current .274 amperes @ 115 volts 60 cycles on 4-5

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

Remarks:

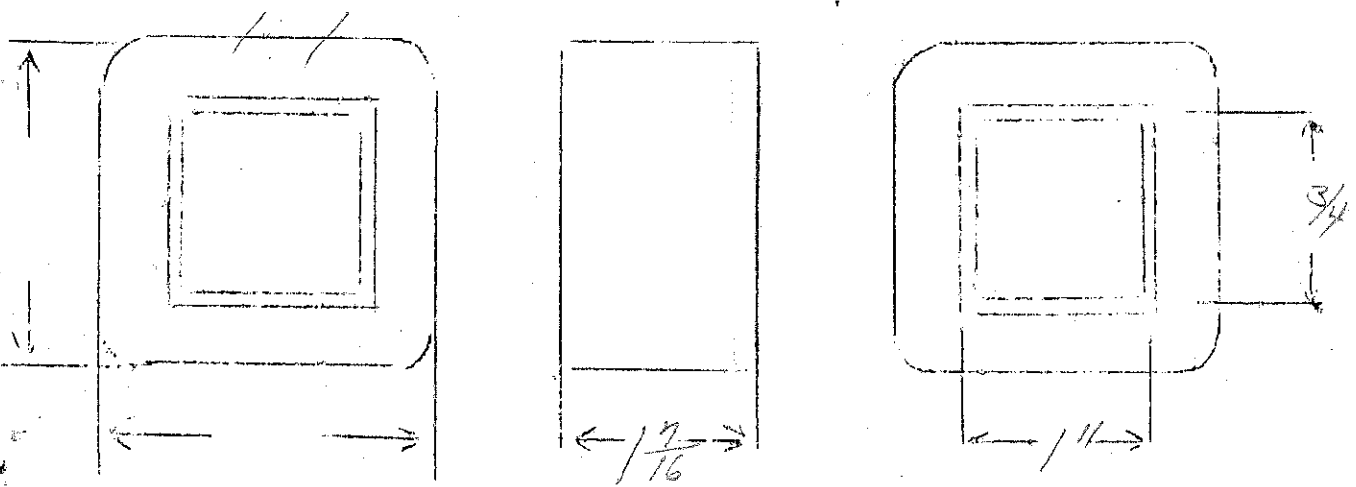


H_i - 3550 V C.T. @ 200 ma.
 L_o - 3000 V C.T. @ 200 ma.

Radio Television
304-100 Mg

SPEC. NO. 389B

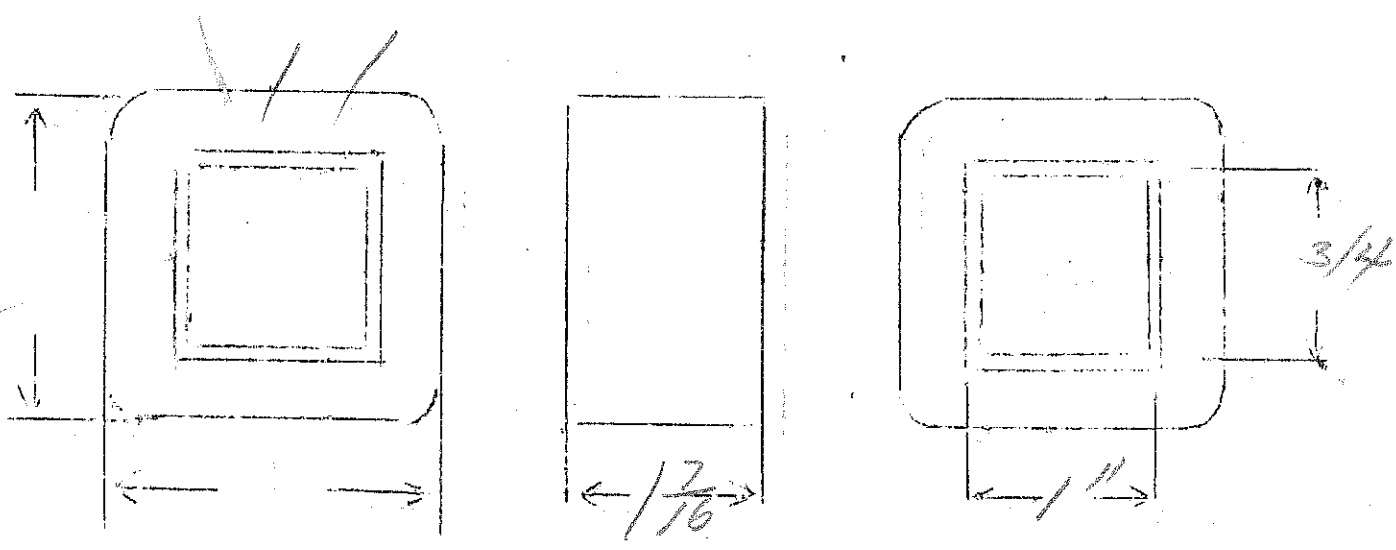
Winding	PR1						
Turns	6500						
Taps	—						
Wind. Lgth.	125						
Wire Size	#33						
T.P.L.	149-44						
Kind Term.	sil Br						
Term. Lgth.	3"						
Layer Insul.	30#						
Wrapper	2L0056A						
TUBE	7L007	IMPREGNATION			VARNISH		
CURE	1 x 3/4 NW	gap .010					



30 H - 100 ma Muesner

SPEC. NO. 390

Winding	PRI						
Turns	6500						
Taps	650						
Wind. Lgth.	1.25						
Wire Size	33						
T.P.L.	149-44						
Kind Term.	#20 P.W.						
Term. Lgth.	911						
Layer Insul.	20#						
Wrapper	2L005 GA						
TUBE	9L007	IMPRÉGNATION			VARNISH		
CURE	1 X 3/4 NW	0.10" GAP					



PLATE

117V
 115V @ 50/60 cycles
 4660V CT @ 200 Ma (2000V DC) or
 4100V CT @ 200 Ma (1750V DC) or
 3560V CT @ 200 Ma (1500V DC)

New STOCK

TEST DATA VOL 1830

SPEC. NO. ~~P467~~ P390

By Taps in Primary

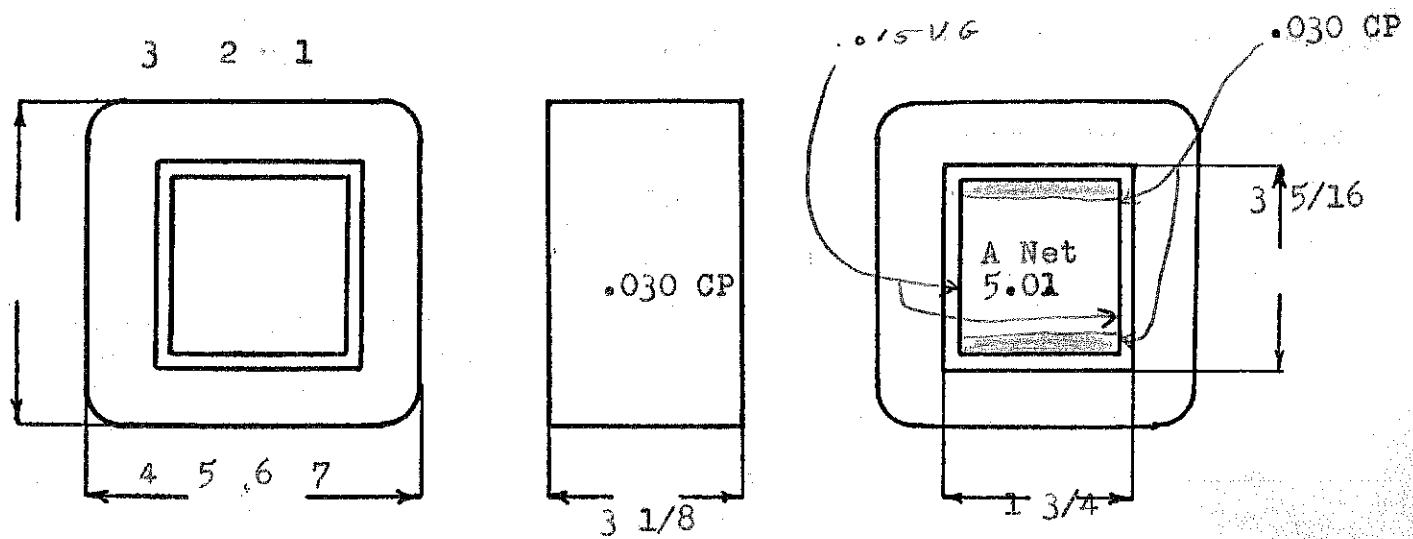
Winding	1-2-3 Sec	4-5-6-7 Pri	
Turns	6600	199	
Taps	3300	153-172	
Wind. Lgth.	2 1/2	2 5/8	
Wire Size	#29	#15	
T. P. L.	184-36L	40-5L	
Finish	90%	90%	
Type Lead	#20 Dulac-Vinyl Sl.	W.O.	
Lead Lgth.	6"	6"	
Layer Insul.	Double 40#	1L007GA	
Test Volt.	8500	1500	
Wrapper	2L015CP 3L007GA	3L007GA	

TUBE 12L007GK * 1L010VG 2L007VG IMPREGNATION Double Varnish

CORE 1 3/4 x 3 1/4 GA. 24 GRADE D STACK 2 x 2

MOUNTING M

T. P. V. - 1.33, 1.5, 1.73
 Window - 1.005 / 1.25 = 80%



DESIGNED BY F. Frazee

DATE

DESIGN AND TEST DATA

Rating: $I \text{ sec (rms)} = .707 \times 200 = 141 \text{ Ma.}$

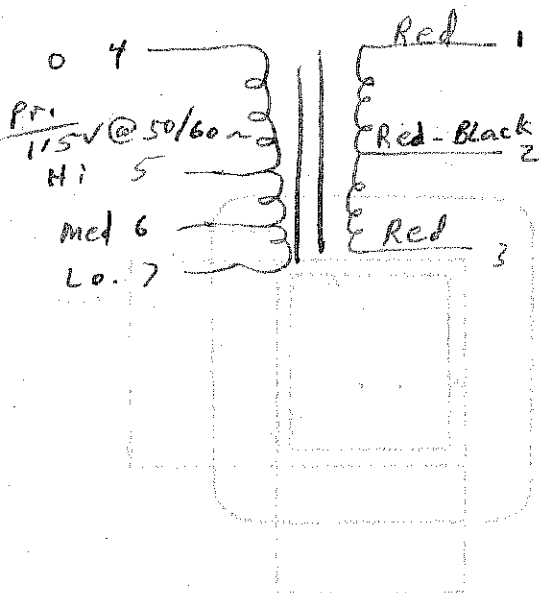
		<u>Hi</u>	<u>Med.</u>	<u>Lo</u>
		Sec VA = 466	Sec. VA = 410	SEC. VA = 356
		Pri VA = 570	Pri. VA = 501	Pri. VA = 435
		$I_p = 4.95$	$I_p = 4.35$	$I_p = 3.78$
Winding		1-2-3 Sec	4-5-6-7 Pri	
Mean Turn		13.02	16.86	
Resistance 25° c		598	.70 - .80 - .94	
Pounds Copper		2.88	2.87	
Copper Density		898	657 max.	
Ratio Volts	<u>Lo</u> 1980-1980	<u>Hi</u> 2480-2480	<u>Med</u> 2200-2200	15
Test to Ground		8500	1500	

Iron Induction 10.5 kg. @ 50 Cycles

Exciting Current 245 Ma. amperes @ 115 volts 60 cycles on 4-5-6-7

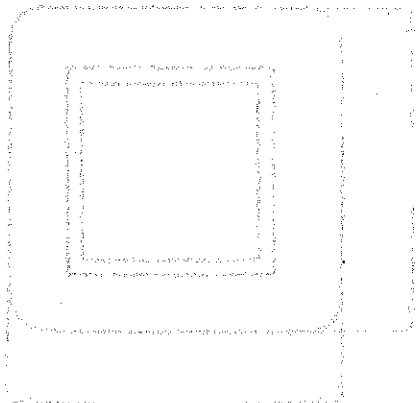
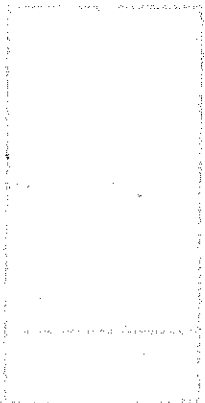
Induced Test: Apply _____ Volts at _____ Cycles on _____ with _____ grounded

Remarks:



Sec

Hi - 4660 VCT @ 200 Ma.
Med. - 4100 VCT @ 200 Ma.
Lo. - 2560 VCT @ 200 Ma.



214

214

Plate

New stock

117V @ 50/60 ~ to

4660 V C.T. @ 200 ma. (2000V D.C.) or

4100 V C.T. @ 200 ma. (1750V D.C.) or

3560 V C.T. @ 200 ma. (1500V D.C.)

By taps in Primary

SPEC. NO. P 390
See P 467

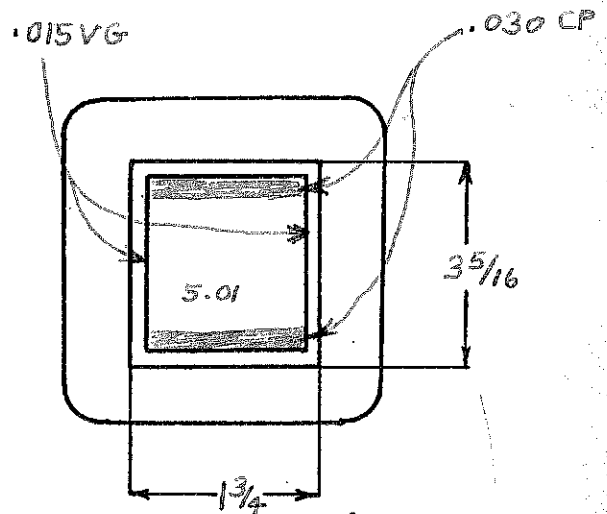
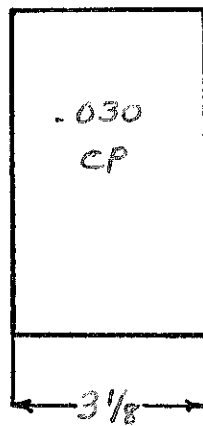
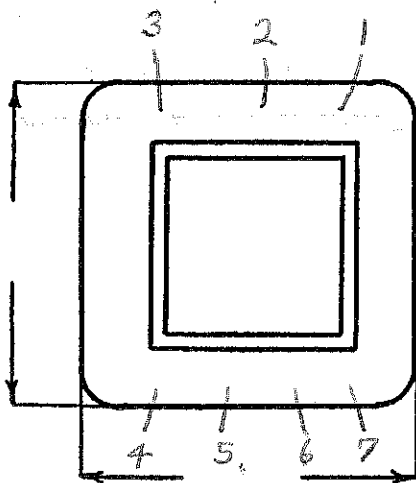
Winding	1-2-3 <i>Sec</i>	4-5-6-7 <i>Pri</i>				SEE	12929
Turns	6600	199					
Taps	3300	153-172					
Wind. Lgth.	2 1/2	2 5/8					
Wire Size	#29	#15					
T. P. L.	184-36L	40-5L					
Finish	90%	90%					
Type Lead	#20 <i>Dulac</i> <i>17 angle</i>	W.O.					
Lead Lgth.	6"	6"					
Layer Insul.	Double 40#	1L007GA					
Test Volt.	8500	1500					
Wrapper	2L015CP 3L007GA	3L007GA					

TUBE 12L 007GK + 1L 010VG IMPREGNATION Double Varnish

CORE 1 3/4 x 3 1/4 GA. 24 GRADE D STACK 2 x 2

MOUNTING M

wn = 80%



DESIGNED BY F. FRAZEE

DATE

DESIGN AND TEST DATA

Rating: $I_s \text{ (RMS)} = .707 \times 200 = 141 \text{ ma.}$

Hi
 Sec VA = 466
 Pri VA = 570
 $I_p = 4.95a$

Med
 Sec VA = 410
 Pri VA = 501
 $I_p = 4.35$

Lo
 Sec VA = 356
 Pri VA = 435
 $I_p = 3.78$

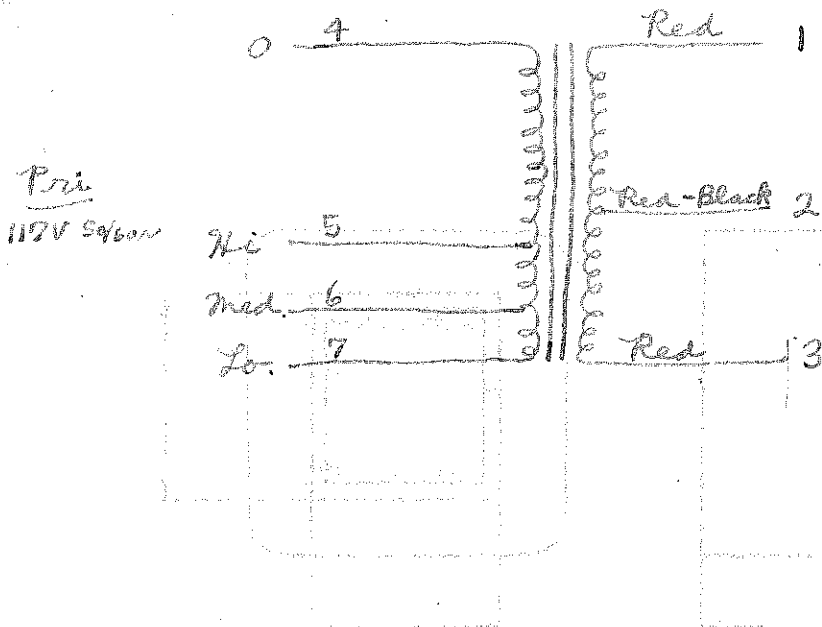
Winding	1-2-3 <i>Sec</i>	4-5-6-7 <i>Pri</i>				
Mean Turn	13.02	16.86				
Resistance 25° c	598	.70-80-94				
Pounds Copper	2.88	2.87				
Copper Density	898	657 _{max}				
Ratio Volts	<i>Lo</i> 1980-1980 <i>Med</i> 2200-2200 <i>Hi</i> 2480-2480	115				
Test to Ground	8500	1500				

Iron Induction 10.5 Kg @ 50 Cycles

Exciting Current .245 amperes @ 115 volts 60 cycles on 4-5-6-7

Induced Test: Apply 518 Volts at 200 Hz Cycles on Lo with grounded

Remarks:



Sec.
 Hi - 4660 V C.T. @ 200ma
 Med - 4100 V C.T. @ 200ma
 Lo - 2560 V C.T. @ 200ma

Inca D83

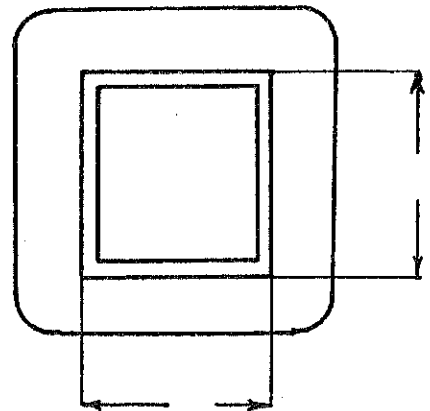
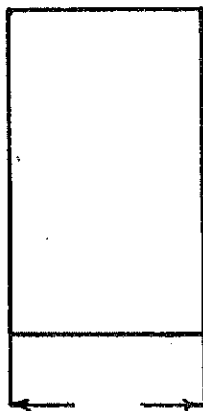
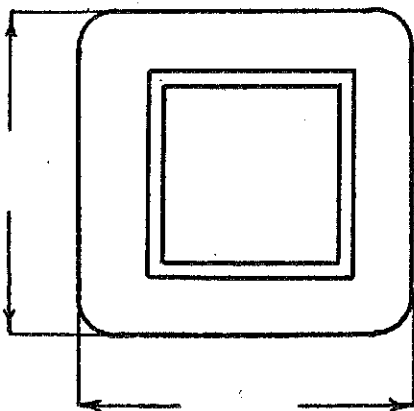
SPEC. NO. C391

Winding							
Turns							
Taps							
Wind. Lgth.							
Wire Size							
T. P. L.							
Finish							
Type Lead							
Lead Lgth.							
Layer Insul.							
Test Volt.							
Wrapper							

TUBE			IMPREGNATION	
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CORE	GA.	GRADE	STACK
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MOUNTING



DESIGNED BY

DATE

PLATE

New STOCK

117V

115V @ 50/60 cycle to

2460V CT @ 300 ma. (1000V D.C.)

1900V CT @ 300 ma. (750V D.C.)

By tapsin primary

SPEC. NO.

2469

P392

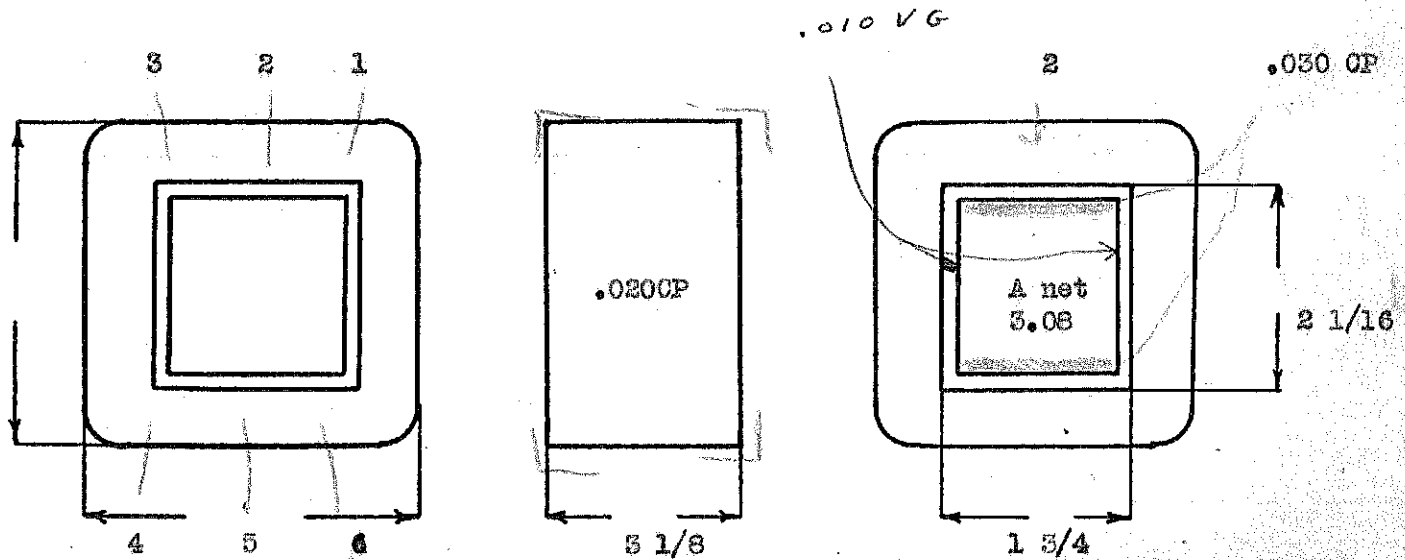
Winding	1-2-3 Sec.	4-5-6 Pri.			
Turns	5700	312			
Taps	2850	244			
Wind. Lgth.	2 5/8	2 5/8			
Wire Size	#28	#16			
T. P. L.	168-34L	45-7L			
Finish	87%	90%			
Type Lead	#20 Dulac Vinyl SL.	W.O. Var. SL.			
Lead Lgth.	6"	6"			
Layer Insul.	Double 30#	1L007GA			
Test Volt.	5000	1250			
Wrapper	2L007VC 2L007GA	3L007GA			

TUBE	12L007CK + 1L007VC	IMPREGNATION	Double Varnish
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CORE 1 3/4 x 2 GA. 24 GRADE D STACK 2 x 2

MOUNTING M - Stand off insulators secondary; Largest lugs primary

TPV - 2.1, 2.7
Window - 1.145/1.250 = 91.7%



DESIGNED BY F. Frazee

DATE 6-47

DESIGN AND TEST DATA

Rating: I sec. (rms) - 141 ma.

	HI	LO
Sec. VA	369	285
Pri. VA	455	352
I Pri.	3.97	3.07

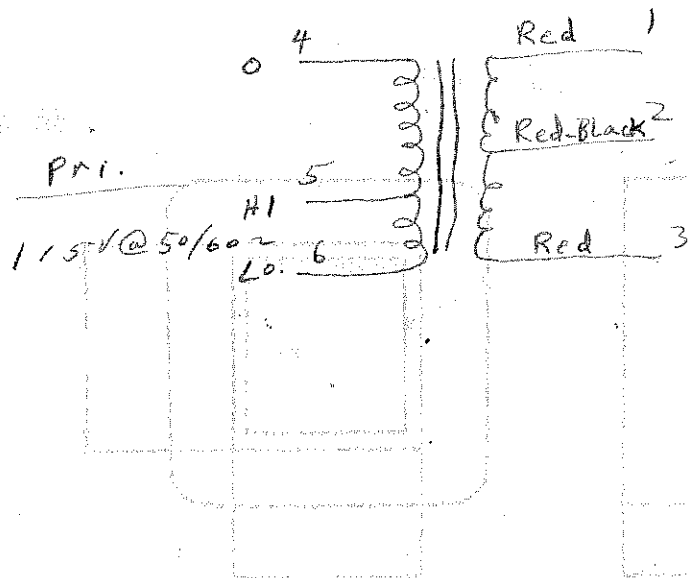
Winding						
	Sec.		Pri.			
Mean Turn	10.40		14.32			
Resistance 25° c	328		1.17 / 1.53			
Pounds Copper	2.52		2.96			
Copper Density	753		651			
Ratio Volts	HI. 1340-1340 LO. 1050-1050		115			
Test to Ground	5000		1250			

Iron Induction 10.7 @ 50 Cycles

Exciting Current 187 ma. amperes @ 115 volts 60 cycles on

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

Remarks:



Sec.
HI 2460V CT @ 300 ma.
LO 1900V CT @ 300 ma.

Plate

New stock

117 V @ 50/60 ~ to
2460 V C.T. @ 300 ma. (1000V D.C.)

1900 V C.T. @ 300 ma. (750V D.C.)

By taps in primary

SPEC. NO. P 392
dec P489

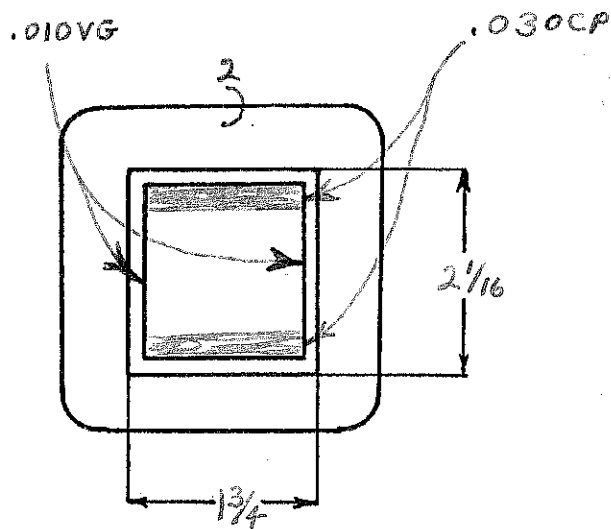
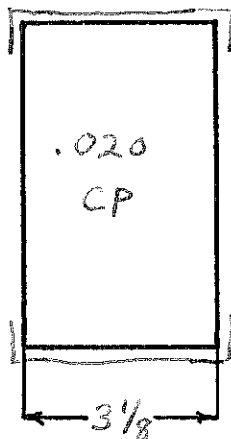
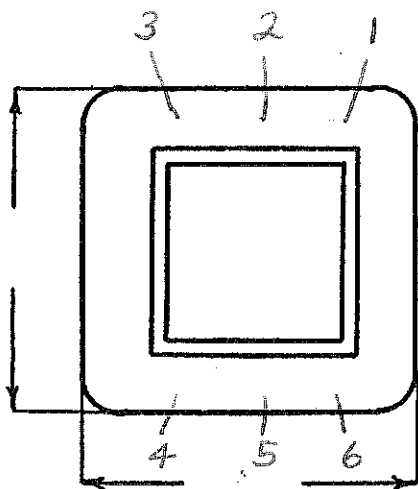
Winding	1-2-3 <i>Sec</i>	4-5-6 <i>Pri</i>				
Turns	5700	312				
Taps	2850	244				
Wind. Lgth.	2 5/8	2 5/8				
Wire Size	#28	#16				
T. P. L.	168-34L	45-7L				
Finish <i>Pitch</i>	87%	90%				
Type Lead	#20 <i>Dular Wind dl.</i>	w. o. <i>Var. dl.</i>				
Lead Lgth.	6"	6"				
Layer Insul.	<i>Double 30#</i>	1L007GA				
Test Volt.	5000	1250				
Wrapper	2L007VC 2L007GA	3L007GA				

TUBE 12L007GK + 1L007VG IMPREGNATION Double Varnish

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

MOUNTING *M-stand off insulators secondary; largest legs primary*

wr = 91.7%



DESIGNED BY F. FRAZEE

DATE 6-47

DESIGN AND TEST DATA

Rating: I_s (RMS) = 2.12 ma.

	Hi	Lo
Sec VA	369	285
Pri VA	455	352
I_p	3.97	3.07

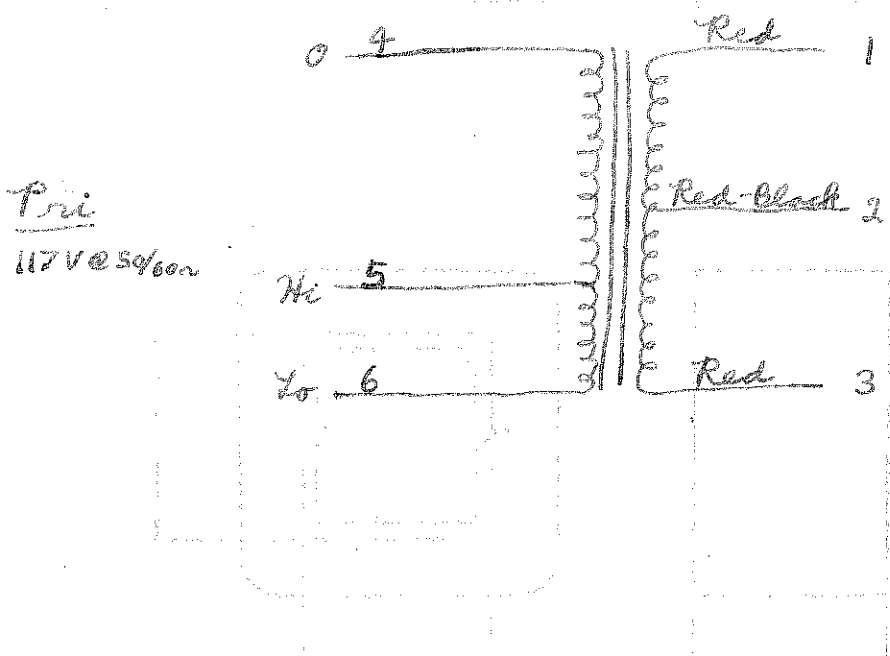
Winding	Sec	Pri				
Mean Turn	10.40	14.32				
Resistance 25° c	328	1.17-1.53				
Pounds Copper	2.52	2.96				
Copper Density	753	651				
Ratio Volts	Hi 1340-1340 Lo 1050-1050	115				
Test to Ground	5000	1250				

Iron Induction 10.7 Kg @ 50 Cycles

Exciting Current .187 amperes @ 115 volts 60 cycles on

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

Remarks:



Sec

Hi 2460V C.T. @ 300ma.
Lo 1900 V C.T. @ 300ma.

Inca D81

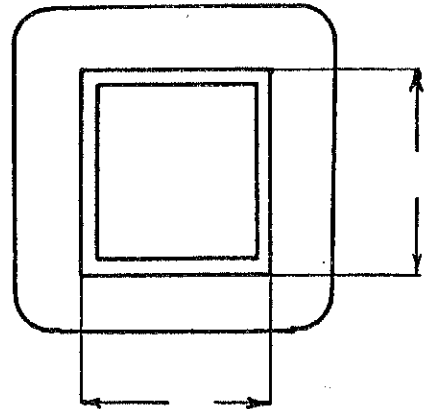
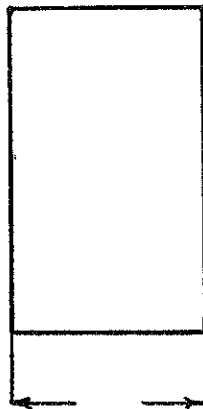
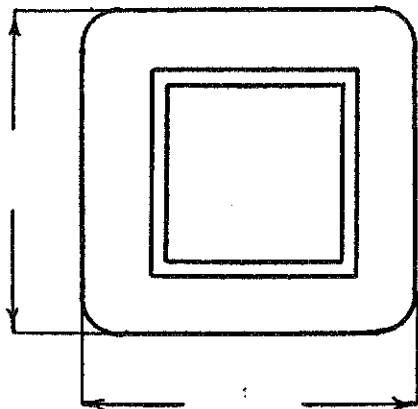
SPEC. NO. C 392

Winding							
Turns							
Taps							
Wind. Lgth.							
Wire Size							
T. P. L.							
Finish							
Type Lead							
Lead Lgth.							
Layer Insul.							
Test Volt.							
Wrapper							

TUBE			IMPREGNATION	
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CORE	GA.	GRADE	STACK
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MOUNTING



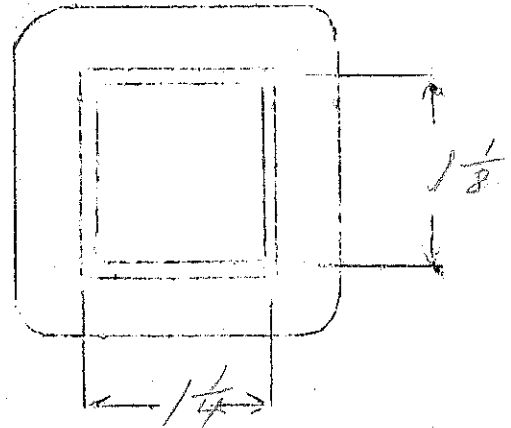
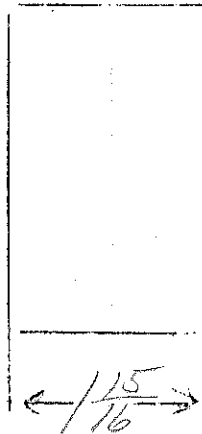
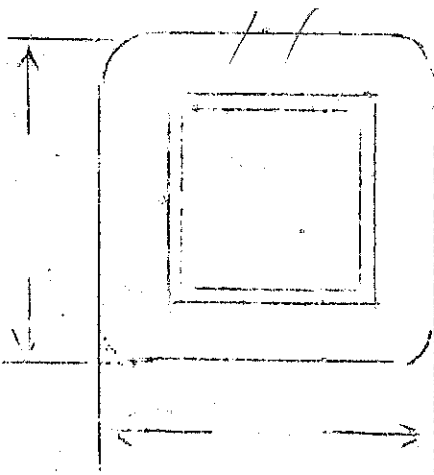
DESIGNED BY

DATE

204-200 Ma

SPEC. NO. 393

Winding							
Turns	5000						
Taps	—						
Wind. Lgth.	1 5/8"						
Wire Size	#29						
T.P.L.	128						
Kind Term.	#30 762						
Term. Lgth.	9"						
Layer Insul.	30#						
Wrapper	2L056A						
TUBE	7L007			IMPREGNATION		VARNISH	
CURE	1 1/4" x 1/8"			.025" gap			



PLATE

New STOCK

117V

115 volts @ 50/60 cycles to
 4660V CT @ 300 Ma. DC (2000V DC)
 4100V CT @ 300 Ma. DC (1750V DC)
 3560V CT @ 300 Ma. DC (1500V DC) By taps in primary

SPEC. NO. P473

P394

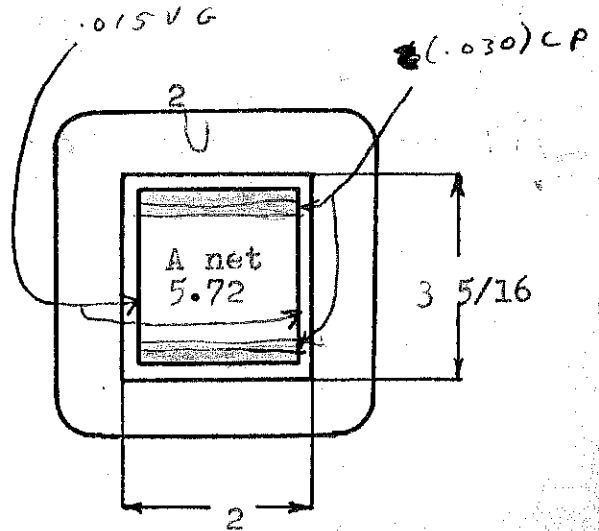
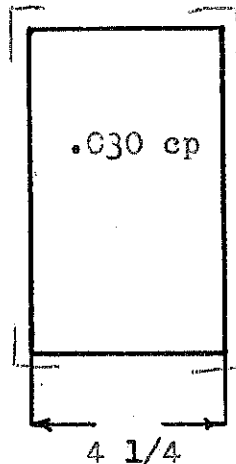
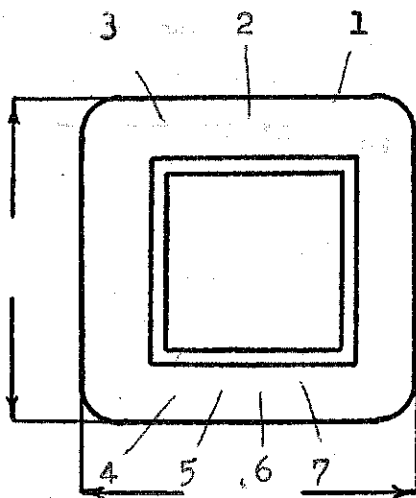
Winding		1-2-3 Sec.		4-5-6-7 Pri.			
Turns		6450		196			
Taps		3225		151 - 171			
Wind. Lgth.		3 5/8		3 5/8			
Wire Size		#27		#12			
T. P. L.		215-30L		40-5L			
Finish		90%		92%			
Type Lead		#20 Dulac		W.O.			
Lead Lgth.		6"		6"			
Layer Insul.		Double 40#		1L010 ep			
Test Volt.		8500		1500			
Wrapper	1L030 CP	3L007VG 3L40# interleaved 3L007GA		4L007GA			

TUBE 12L007GK plus 1L040 VG 2L007VC IMPREGNATION Double Varnish

CORE 2 x 3 1/4 GA. 24 GRADE D STACK 2 x 2

MOUNTING M

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



DESIGNED BY F. Frazer

DATE

DESIGN AND TEST DATA

Rating: I sec. (rms) = 212 Ma.

Sec. VA =	<u>HI</u> 699	<u>MED.</u> 615	<u>LO</u> 53
Pri. VA =	845	744	647
Pri. I =	7.36	6.47	5.63

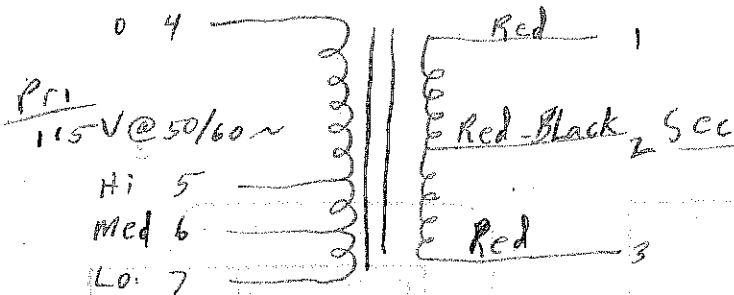
Winding		Sec.		Pri.	
Mean Turn		12.5		17.6	
Resistance 25° c		353		.36 - .41 - .47	
Pounds Copper		4.17		5.79	
Copper Density		950		887	
Ratio Volts	<u>Lo</u> 3594	<u>MED.</u> 4134	<u>HI</u> 4694	115	
Test to Ground		8500		1500	

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

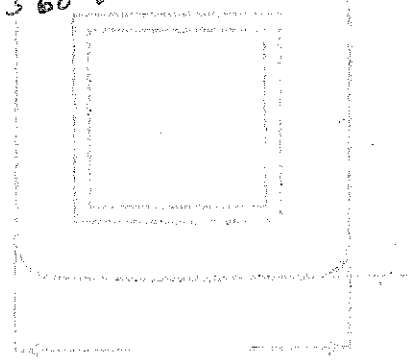
Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks:



Hi — 4660 v ct @ 300 ma
 Med — 4100 v ct @ 300 ma
 Lo — 3560 v ct @ 300 ma.



Plate

New Stock

117V @ 50/60 ~ to

4660 V C.T. @ 300 ma. D.C. (2000V D.C.)

4100 V C.T. @ 300 ma. D.C. (1750V D.C.)

3560 V C.T. @ 300 ma D.C. (1500V D.C.)

SPEC. NO. P 394
Rev 473

By taps in primary

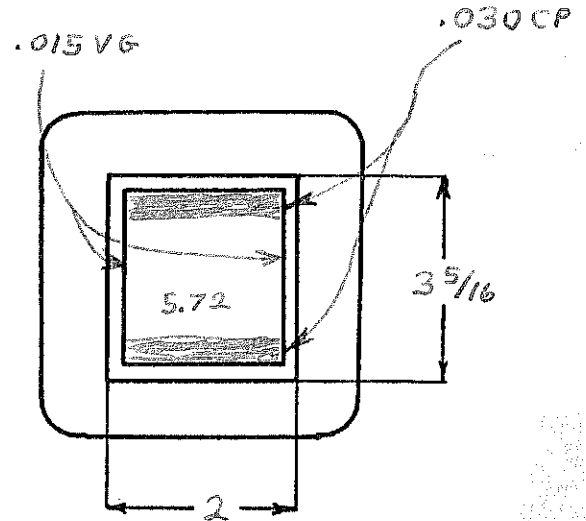
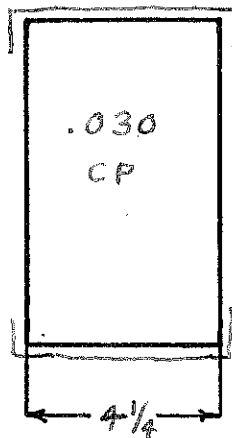
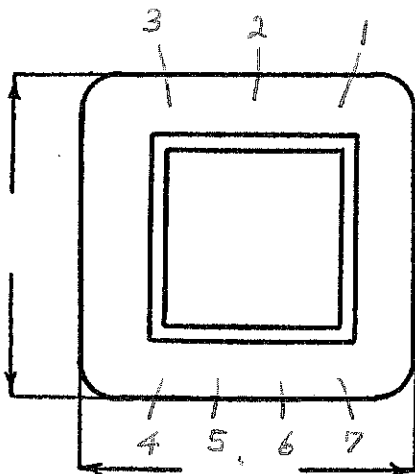
Winding	1-2-3 sec	4-5-6-7 Pri				
Turns	6450	196				
Taps	3225	151-171				
Wind. Lgth.	3 5/8	3 5/8				
Wire Size	#27	#12				
T. P. L.	215-30L	40-5L				
Finish Pitch	90%	92%				
Type Lead	#20 Dulac	w.o.				
Lead Lgth.	6"	6"				
Layer Insul.	Double 40#	1L010CP				
Test Volt.	8500	1500				
Wrapper	1L030CP 3L007GA	4L007GA				

TUBE	12L007GK + 1L010VG	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

wn = 90.6%



DESIGNED BY F. FRAZEE

DATE

DESIGN AND TEST DATA

Rating: I_s (RMS) = 212 ma

	Hi	Med	Lo
Sec VA =	697	615	535
Pri VA =	845	744	647
I_p =	7.36a	6.47a	5.63a

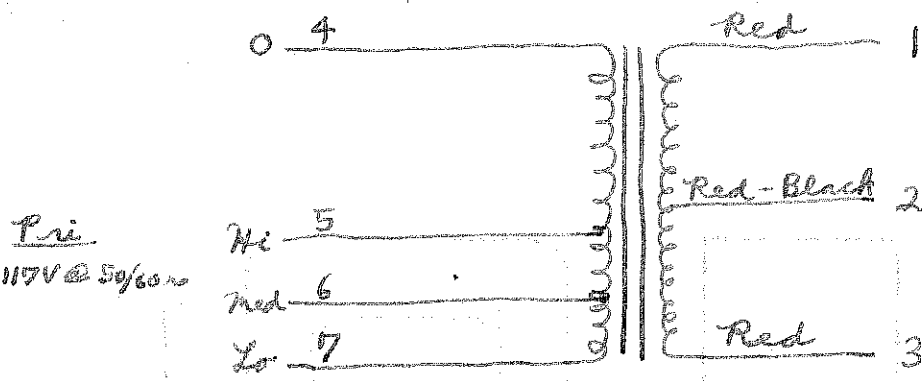
Winding	<i>Sec</i>	<i>Pri</i>				
Mean Turn	12.5	17.6				
Resistance 25° c	353	.36-41-47				
Pounds Copper	4.17	5.79				
Copper Density	950	887				
Ratio Volts	<i>Lo</i> 3594 <i>med</i> 4134 <i>Hi</i> 4674	115				
Test to Ground	8500	1500				

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

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks:



Sec

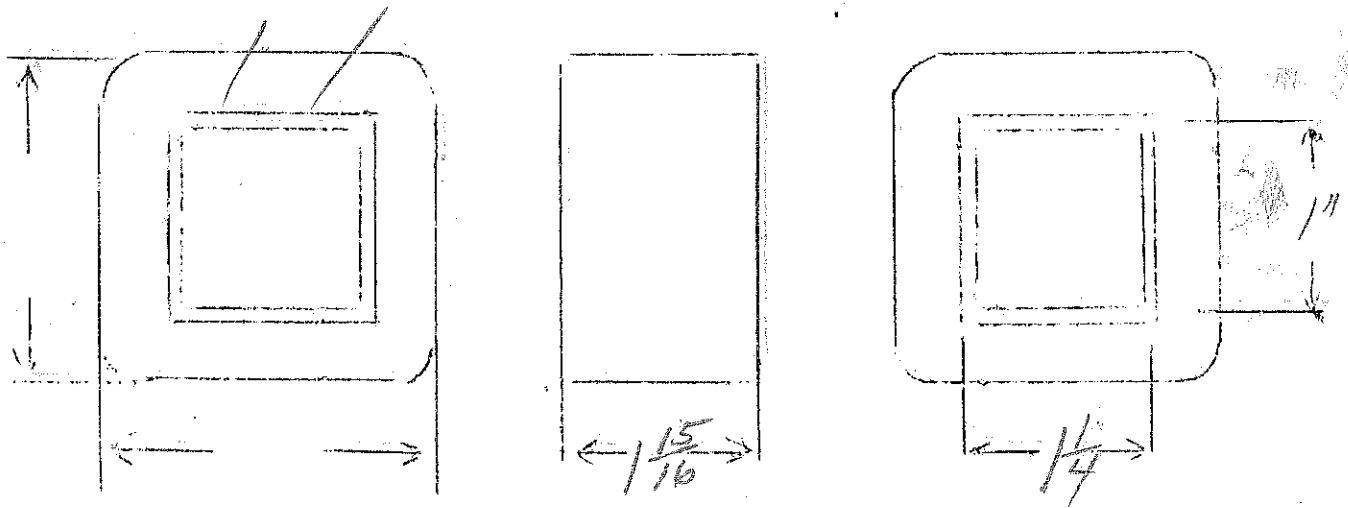
Hi 4660 V C.T. @ 300 ma.
 Med 4100 V C.T. @ 300 ma.
 Lo 3560 V C.T. @ 300 ma.

HERNFELD

100 Turns at 100 ms
60 ms average
(not continuous)

SPEC. NO. 394

Winding							
Turns	12000						
Taps	—						
Wind. Lgth.	1.75						
Wire Size	#33						
T.P.L.	200-50						
Kind Term.	SILVER						
Term. Lgth.	3"						
Layer Insul.	20#						
Wrapper	2L0056A						
TUBE	7L007			IMPREGNATION		VARNISH	
CURE	1 1/4 x 1"						



SMOOTHING CHOKE

25 Henries CT @ 150 Ma.
 325 Ohm Resistance
 1250 Working Volts

SPEC. NO. C-396-A

Winding		CHOKE				
Turns		4800				
Taps	CT	2400				
Wind. Lgth.		1-7/16" = 1.4375"				
Wire Size		#30				
T. P. L.		120 - 40L				
Finish Pitch		90%				
Type Lead		#20 Pr. Br.				
Lead Lgth.		9"				
Layer Insul.		1L 30%G				
Test Volt.		3500V				
Wrapper		1L 007 VC 2L 005 GA				

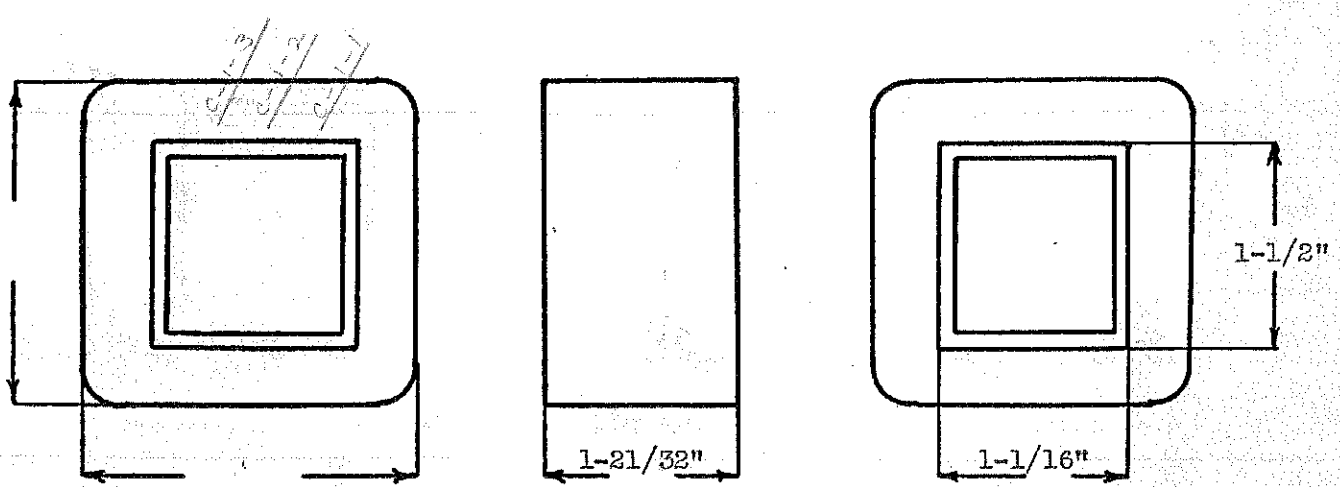
TUBE	7L - .007" GK / 1L - .007" VC	IMPREGNATION	VARNISH
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CORE	1-1/16" x 1-1/2" GA.	24	GRADE	D	STACK	.010" Gap Fibre Keepers
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MOUNTING	"A" - Leads	(.020" Gap with Steel Keepers)
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Wire Net = 0.496" (0.492")
 Cu = 667

23.35 Henries @ .027" Total Gap



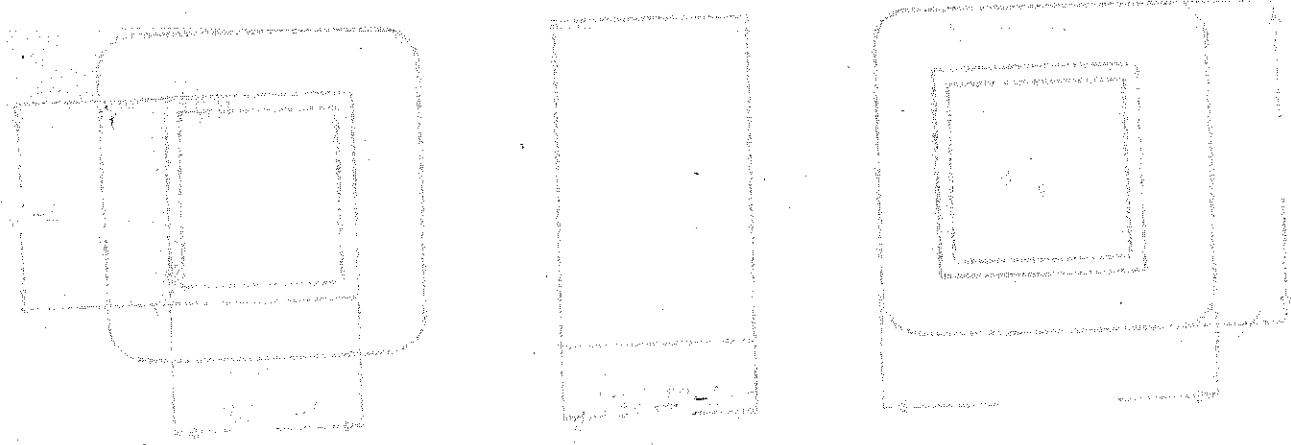
DESIGNED BY HWS

DATE

#C-396-A

- C-1-1 White
- CT C-1-2 Black
- C-1-3 Yellow

Ex I = 5ma



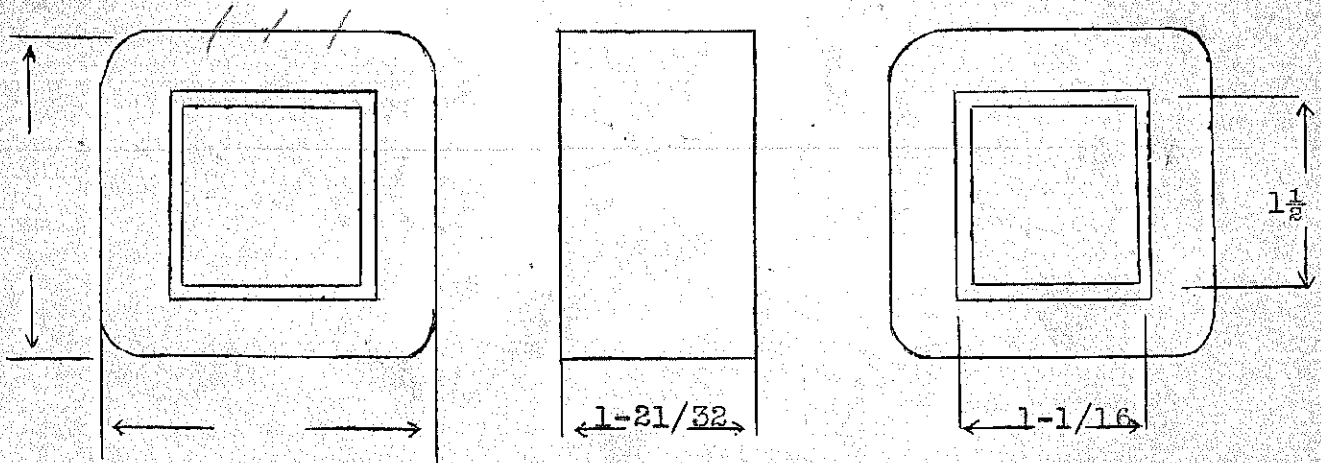
30 Henries - C.T.
 150 D. C. Ma. - 320 Ohm - 3500 V. Ins.

OLD

SPEC. NO. C396

Winding	P					
Turns	4800					
Taps	2400					
Wind. Lgth.	1-3/8					
Wire Size	#30					
T.P.L.	115-42					
Kind Term.	#20 Par Br					
Term. Lgth.	9"					
Layer Insul.	30#					
Test Volt.	3500					
Wrapper	1L007VC 2L005GA					

TUBE	7L007 + 1L007VC	IMPREGNATION	VARNISH
CORE	.01" Gap	PRIMARY V.A.	
MOUNTING	A or B		



DESIGNED BY G. W.

DATE 5/13/38

PLATE

New STOCK

117V
 115 volts @ 50/60 cycles to
 3620 volts CT @ 350 Ma. DC (1500V DC) or
 3060 volts CT @ 350 Ma. DC (1250V DC)
 By tap in primary

SPEC. NO. P472 P396

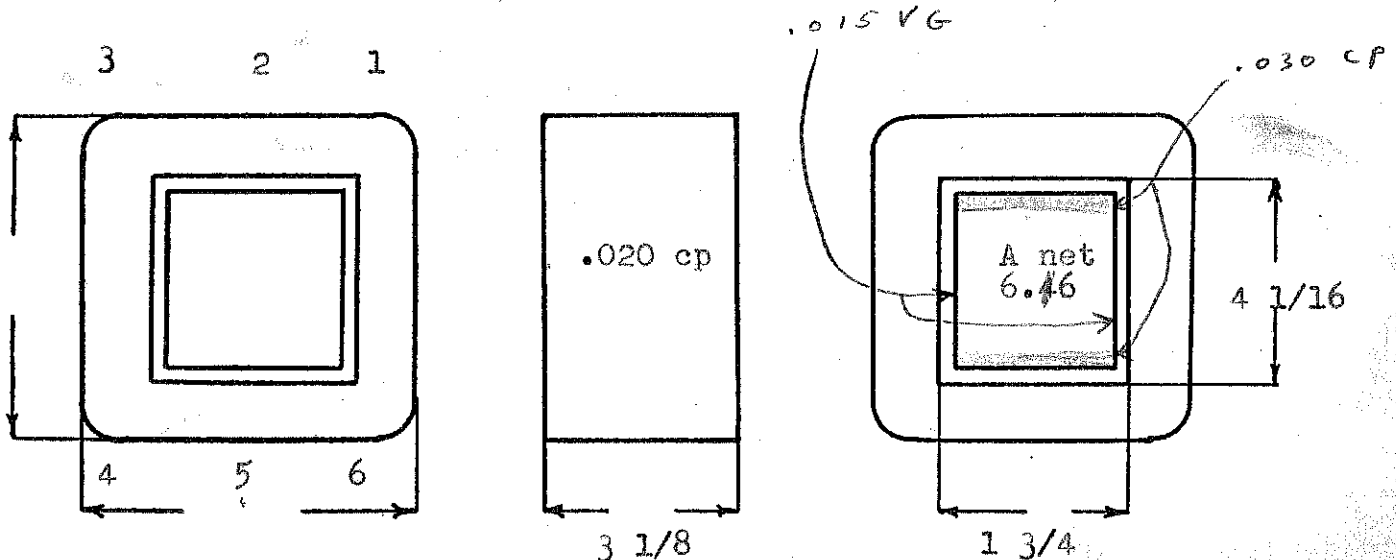
Winding	1-2-3 Sec.	4-5-6 Pri.
Turns	4400	156
Taps	2200	132
Wind. Lgth.	2 5/8	2 5/8
Wire Size	#27	#13
T. P. L.	157-28L	32-5L
Finish	91%	90%
Type Lead	#22 Dulac	W.O.
Lead Lgth.	6"	6"
Layer Insul.	Double 40#	1L010CP
Test Volt.	6000	1250
Wrapper	2L007VC plus 2L40# interleaved + 2L007GA + 1L015CP	3L007GA

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

Plate

New stock

117 V @ 50/60 ~ to

3620 V C.T. @ 350 ma. D.C. (1500 V D.C.) or

3060 V C.T. @ 350 ma. D.C. (1250 V D.C.)

By tap in primary

SPEC. NO. P 396
des P472

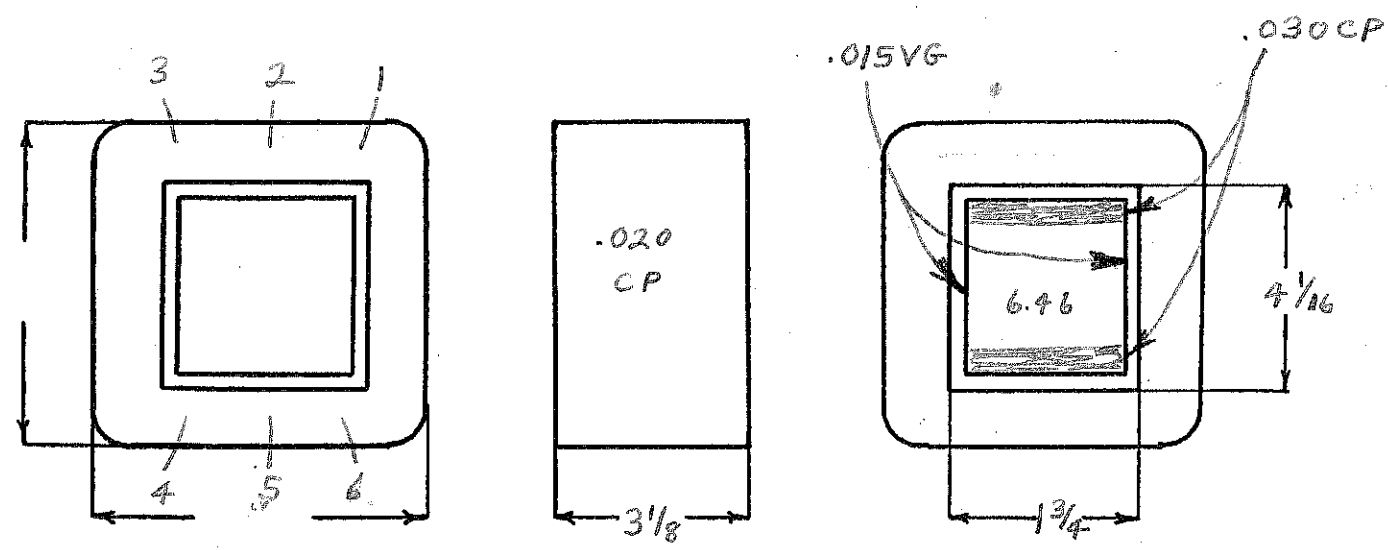
Winding	1-2-3 <i>Sec</i>	4-56 <i>Pri</i>				
Turns	4400	156				
Taps	2200	132				
Wind. Lgth.	2 5/8	2 5/8				
Wire Size	#27	#13				
T. P. L.	157-28L	32-5L				
Finish <i>Pitch</i>	91%	90%				
Type Lead	#22 <i>Dulac</i>	w. o.				
Lead Lgth.	6"	6"				
Layer Insul.	Double 40#	1L010CP				
Test Volt.	6000	1250				
Wrapper	1L007VG 1L015CP 2L007GA	3L007GA				

TUBE 12L007GK+1L010VG IMPREGNATION Double Varnish

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

MOUNTING M *Power with gas*

win = 90%



DESIGNED BY F. FRAZEE

DATE 6-4-47

DESIGN AND TEST DATA

Rating: $I_s (RMS) = .707 \times 350 = 248$

$I_{sec} VA = \begin{matrix} Hi & Lo \\ 635 & 537 \end{matrix}$
 $I_{pri} VA = \begin{matrix} 767 & 656 \end{matrix}$
 $I_p = \begin{matrix} 6.68 & 5.71 \end{matrix}$

Winding	1-2-3 <i>sec</i>	4-5-6 <i>pri</i>				
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	<i>Hi</i> 1715-1715 <i>Lo</i> 1620-1620	115				
Test to Ground	6000	1250				

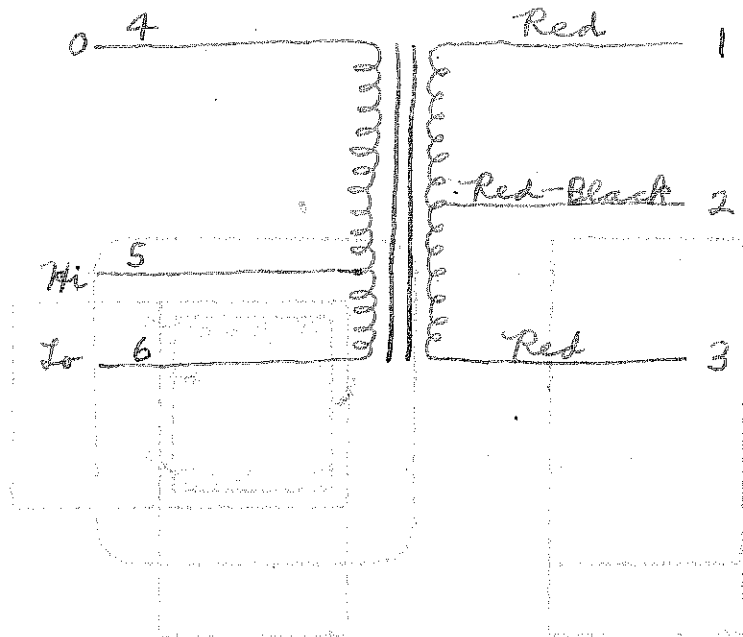
Iron Induction 9.9 Kg @ 50 Cycles

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

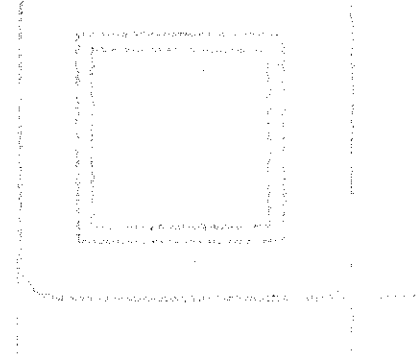
Induced Test: Apply _____ Volts at _____ Cycles _____ on _____ with _____ grounded

Remarks:

Pri
117 V
@ 50/60w



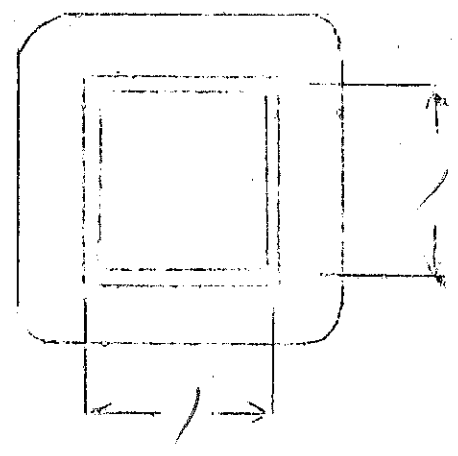
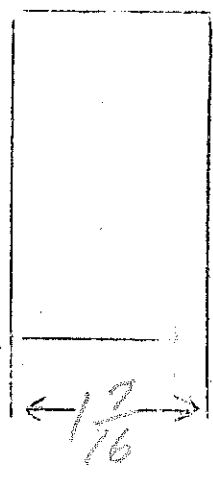
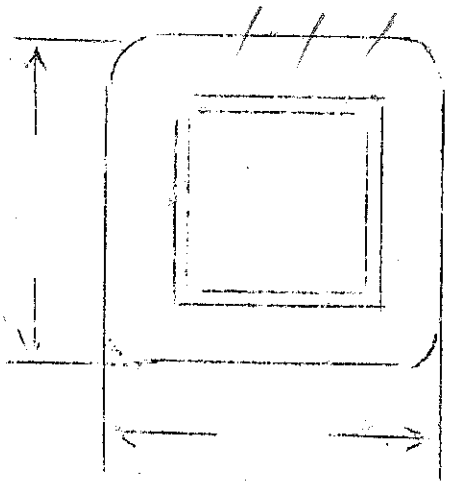
sec
 $Hi - 3620 V CT. @ 350ma.$
 $Lo - 3060 V CT. @ 350ma.$



12 H. - 150Ma
 Winding tapped at 10%

SPEC. NO. 398

Winding							
Turns	3600						
Taps	3240						
Wind. Lgth.	1.25						
Wire Size	30E						
T.P.L.	115						
Kind Term.	#20 Per						
Term. Lgth.	911						
Layer Insul.	20#						
Wrapper	2L0056A						
TUBE	4L007			IMPREGNATION		VARNISH	
CURE	1X1NW						



Plate

New Stock

117 V @ 50/60 ~ to

5800 V C.T. @ 350 ma. D.C. (2500V D.C.)

SPEC. NO. P 398
Sec. P4-75

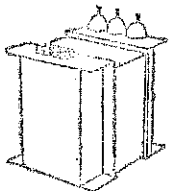
Winding	1-2-3 <i>Sec.</i>	4-5 <i>Pri.</i>				
Turns	5200	98				
Taps	2600	—				
Wind. Lgth.	3 1/4	3 1/4				
Wire Size	# 26	# 11				
T. P. L.	174-30L	33-3L				
Finish	91%	94%				
Type Lead	#20 Dulac <i>Wingl. Sl.</i>	no. 0.				
Lead Lgth.	6"	6"				
Layer Insul.	Double 50#	1L015 CP				
Test Volt.	10,000	1250				
Wrapper	1L030CP 1L010VG 3L007GA	4L007GA				

TUBE 12L007GK + 2L010VG IMPREGNATION Double Varnish

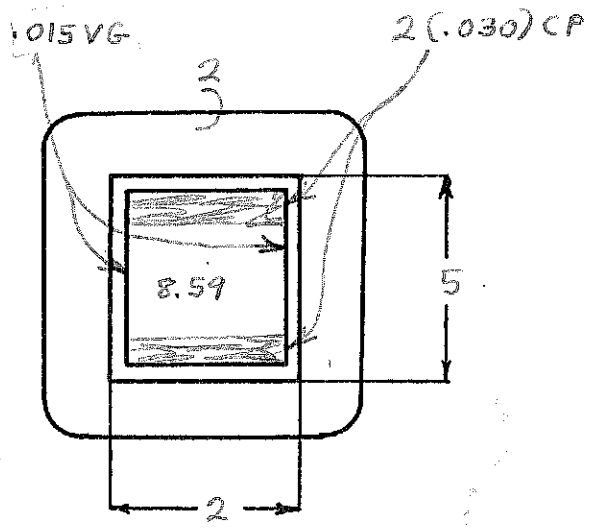
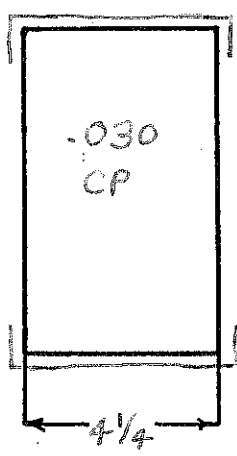
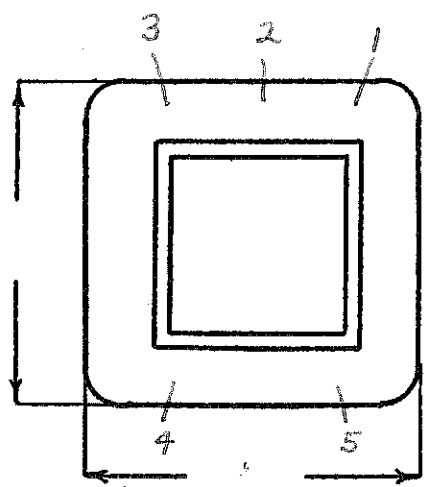
CORE 2 x 4 7/8 GA. 24 GRADE D STACK 2x2

MOUNTING M *Power with Gas*

wn = 87%



M



DESIGNED BY F. FRAZEE

DATE 6-4-47

DESIGN AND TEST DATA

Rating: I_s (RMS) = $.707 \times 350 = 248$

Sec VA = 1014

Pri VA = 1213

$I_p = 10.55$

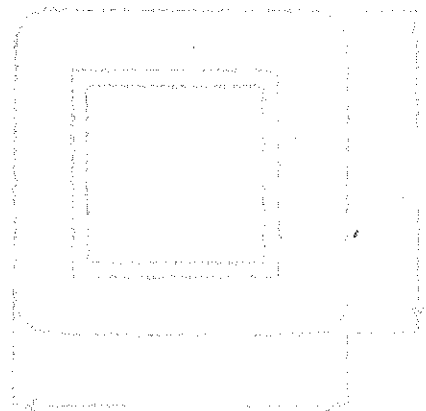
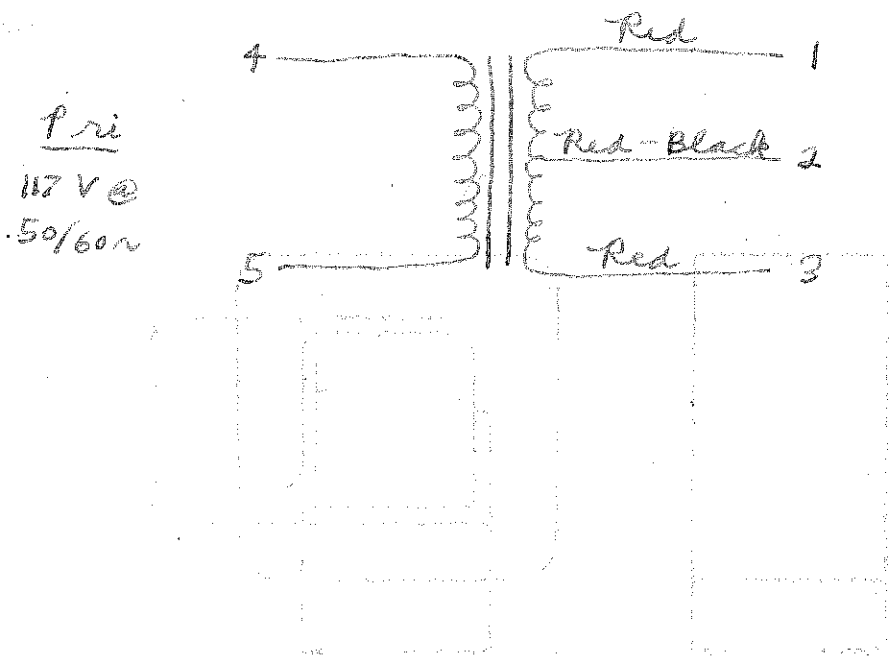
Winding	1-2-3 <i>Sec</i>	4-5 <i>Pri</i>				
Mean Turn	17.3	21.7				
Resistance 25° c	313	.231				
Pounds Copper	5.87	4.53				
Copper Density	1023	780				
Ratio Volts	3050-3050	115				
Test to Ground	10,000	1500				

Iron Induction 9.5 Kg @ 50 Cycles

Exciting Current $.627$ amperes @ 115 volts 60 cycles on $4-5$

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

Remarks:



PLATE

New STOCK

117V
115 volts @ 50/60 cycles to

5800V CT @ 350 Ma. DC (2500V DC)

SPEC. NO. ~~P475~~ P398

Winding	1-2-3	4-5
	Sec.	Pri.
Turns	5200	98
Taps	2600	---
Wind. Lgth.	3 1/4	3 1/4
Wire Size	#26	#11
T. P. L.	174-30L	33-3L
Finish	91%	94%
Type Lead	#20 Dulac vinyl sl.	W.O.
Lead Lgth.	6"	6"
Layer Insul.	Double 50#	IL015 cp
Test Volt.	10,000	1250
Wrapper	6L007VG 1L030 CP plus 6L50# GI Interleaved 1L010VG + 3L007GA	4L007GA

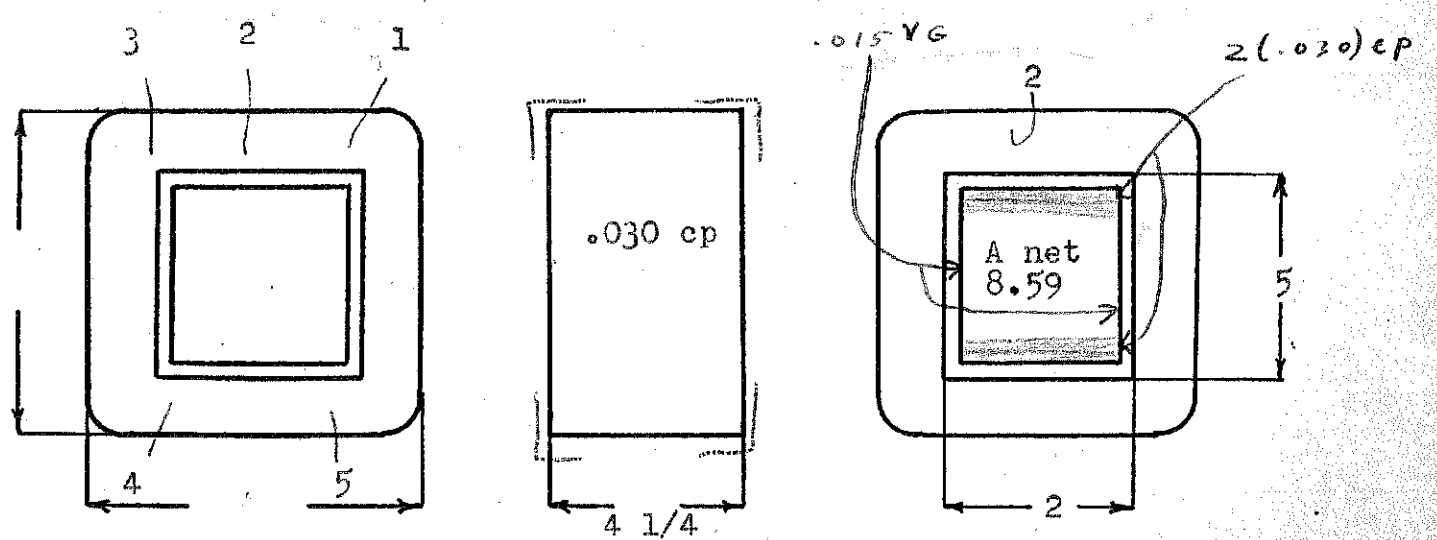
TUBE	12L007GK plus 4L007VG 2L010VG	IMPREGNATION	Double Varnish
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CORE 2 x 4 7/8 GA. 24 GRADE D STACK 2 x 2

MOUNTING M Pour with Tar

T. P. V. - 0.85
Window - $1.195 / 1.375 = 87\%$

Place large bushings on Bakelite Panel



DESIGNED BY F. Frazee

DATE 6-4-47

DESIGN AND TEST DATA

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

Sec VA = 1014

Pri VA = 1213

Pri I = 10.55

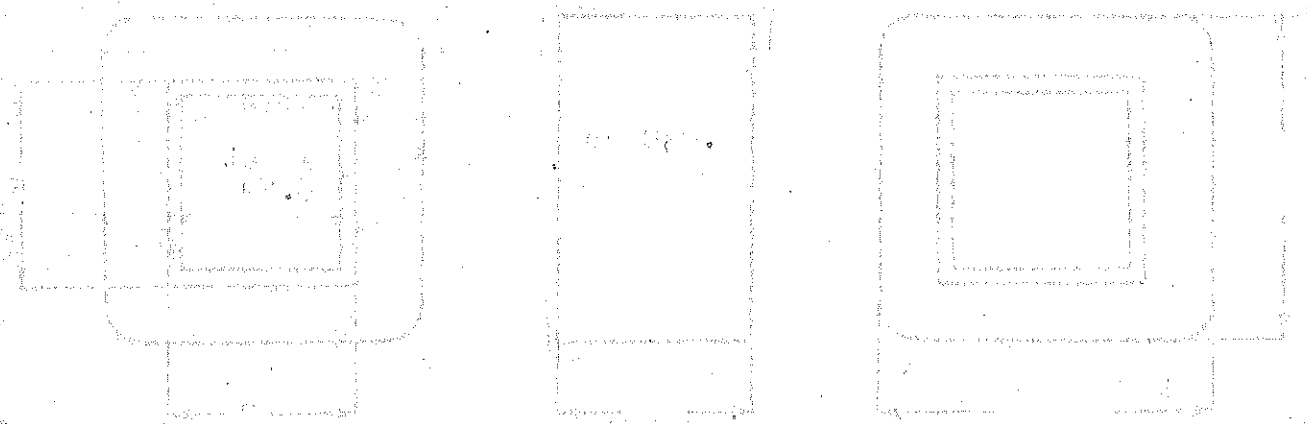
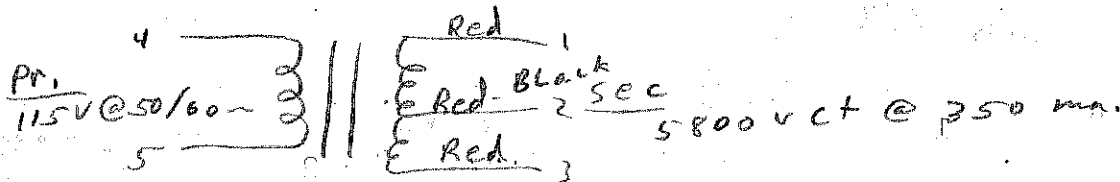
Winding		1-2-3 Sec.			4-5 Pri.		
Mean Turn		17.3			21.7		
Resistance 25° c		.313			.231		
Pounds Copper		5.87			4.53		
Copper Density		1023			780		
Ratio Volts		3050-3050			115		
Test to Ground		10,000			1500		

Iron Induction 9.5 kg @ 50 Cycles

Exciting Current 627 milliamperes @ 115 volts 60 cycles on 4-5

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

Remarks:



1000 Henries

SPEC. NO. 399

Winding	COIL					
Turns	22000	02	20000		18000	19000
Taps	11000		10000	00	9000	9500
Wind. Lgth.	15/16"		15/16		15/16	15/16
Wire Size	#41E		#40		#40	#40
T.P.L.	302		265		265	265
Kind Term.					1	
Term. Lgth.			3" S.E		2" S.E	3" S.E
Layer Insul.			16 #G1		16 #G1	16 #G1
Wrapper						

TUBE | 71.007" | IMPREGNATION | Durichlor
 CURE | 2 Hr. 290°C. Grade A (Amr)

