

Ep-220-240
 E_{f1} - 2.5V-7Amp CT
 E_{f2} - 5V-3.5Amp

SPEC. NO. F702-230

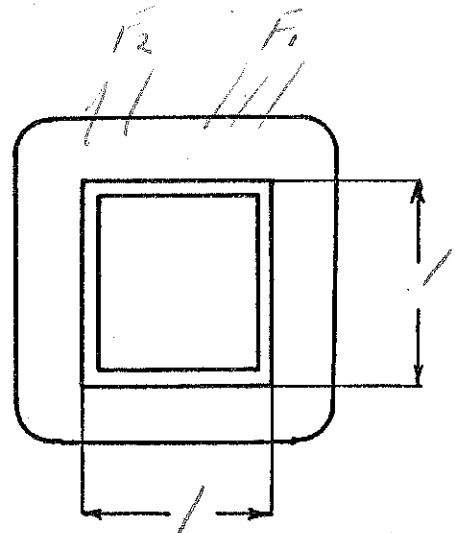
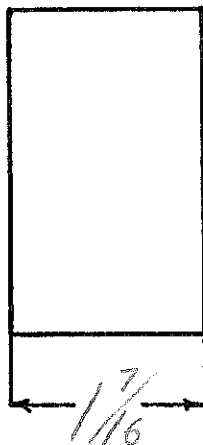
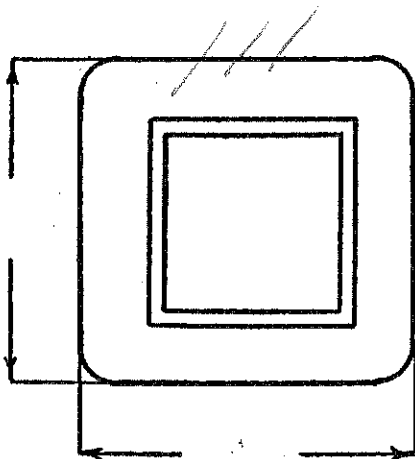
Winding	Pri	Black F ₁	Green F ₂				
Turns	1390	16	32				
Taps	1270	8					
Wind. Lgth.	1/4						
Wire Size	#30	#14	#17				
T. P. L.	100-15						
Finish							
Type Lead	#20 Pa Br	Wire	Only				
Lead Lgth.	9"	9"	9"				
Layer Insul.	30#						
Test Volt.	1250	1250	2500				
Wrapper	2L005GA	1L005VC 1L005GA	1L005VC 1L005GA				

TUBE 7L0076K IMPREGNATION Double Varnish

CORE 1X1 GA. 24 GRADE D STACK 2X2

MOUNTING A or B

Start-White
 Tap-Black
 Finish-Yellow



DESIGNED BY G.K.

DATE 3-2-37

Ep - 110 V. - 120 V.
 Ef - 2.5 V.C.T. - 8 A. - 2500 V. Ins.

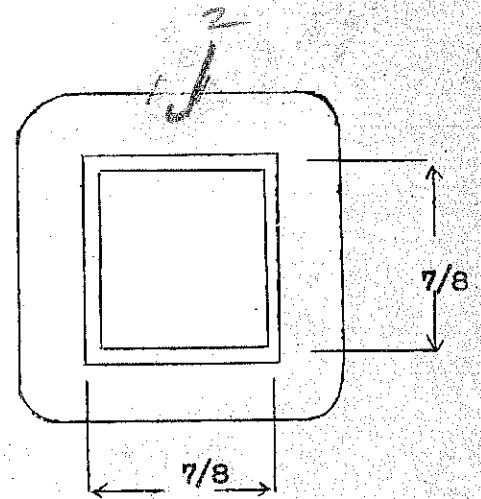
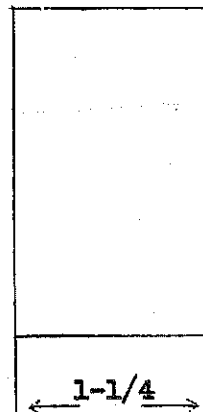
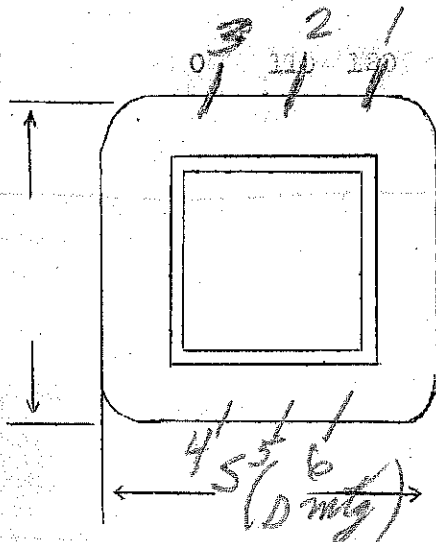
SPEC. NO.

F701

Winding	PRI.	F ₁				
Turns	885	21				
Taps	813	10				
Wind. Lgth.	1-1/16	1-1/16				
Wire Size	#28	#14				
T.P.L.	74-12					
Kind Term.	Sil. Br. or #20 P. Br.	Br. Wire Only				
Term. Lgth.	3" or 9"	3" or 9"				
Layer Insul.	40#					
Test Volt.						
Wrapper	2L005GA	2L005GA				

TUBE	7L007	IMPREGNATION	VARNISH
CORE	7/8 x 7/8	PRIMARY V.A.	
MOUNTING	A or B D - Leads		

*Pri start white
 110 black
 120 yellow*



Ep-220-240

Es-2.5VCT-7Amp

SPEC. NO. F 701-230V

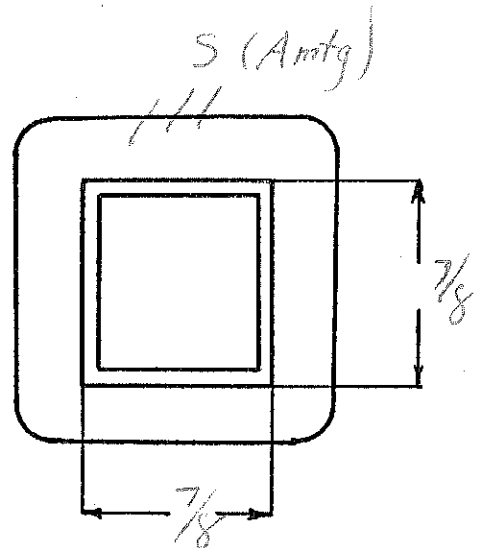
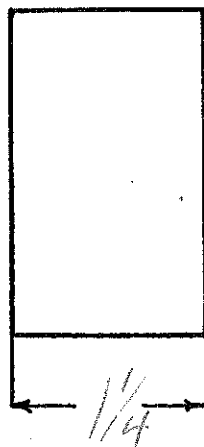
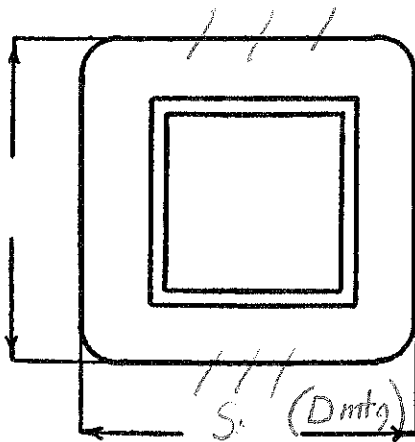
Winding	Pri	Fil				
Turns	1770	21				
Taps	1626	10				
Wind. Lgth.	1 1/6	1 1/6				
Wire Size	#31	#14				
T. P. L.	100-19					
Finish						
Type Lead	SilBr	W.O.				
Lead Lgth.	3"	3"				
Layer Insul.	30#					
Test Volt.	2500	1250				
Wrapper	2L0056A	2L0056A				

TUBE 5L007 GK IMPREGNATION Double Varnish

CORE 7/8 X 7/8 GA. 24 GRADE D STACK 2X2

MOUNTING Air D

Start - White
Tap - Black
Finish - Yellow P



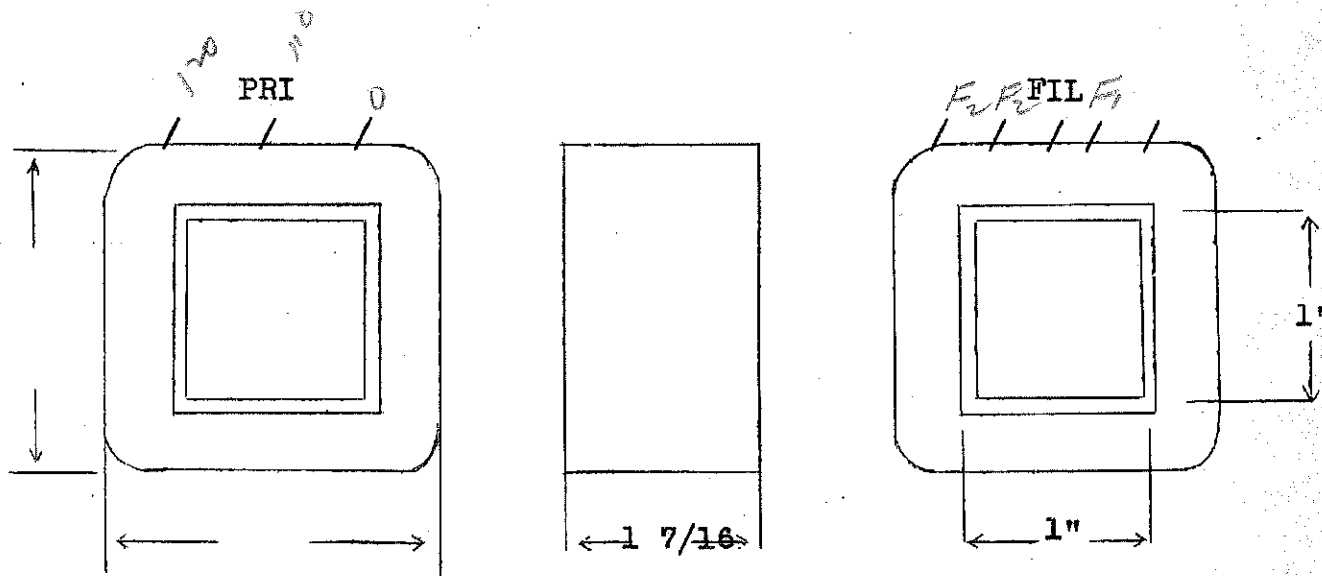
DESIGNED BY G. W.

DATE 7-6-39

Ep - 110 V. - 120 V.
 Ef - 2.5 V.C.T. - 7 A. - 2500 Ins.
 Ef - 5 V. - 3 A. - 2500 Ins.

SPEC. NO. F702

Winding	PRI.	<i>black</i> F ₁	<i>green</i> F ₂			
Turns	695	16	32			
Taps	640	8	---			
Wind. Lgth.	125	---	---			
Wire Size	#27	#14	#17			
T.P.L.	65-11	1 L	2 L			
Kind Term.	WIRE #20 P.Br.	WIRE	WIRE			
Term. Lgth.	3" 9"	3" - 9"	3" - 9"			
Layer Insul.	40#					
Test Volt.						
Wrapper	2L.005GA	3L.005GA	3L.005GA			
TUBE	5L.007	IMPREGNATION		VARNISH		
CORE	1 x 1 NW	PRIMARY V.A.				
MOUNTING	A or B					



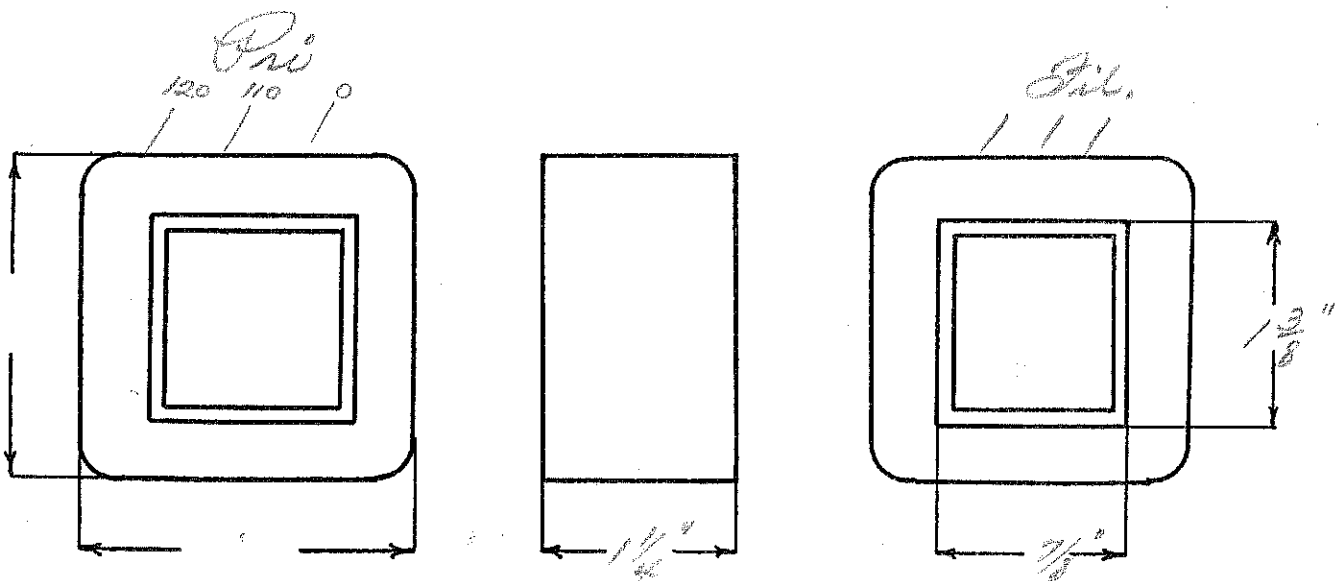
DESIGNED BY G. W.

DATE

$R_p = 110 - 120 - 25 \Omega$
 $E_F = 6.3V @ 3amp$

SPEC. NO. 703-252

Winding	Pri	Fil.					
Turns	885	53					
Taps	813	27					
Wind. Lgth.	1 1/16	-					
Wire Size	#28	#18					
T. P. L.	74-12						
Finish	As Ordered						
Type Lead	-	-					
Lead Lgth.	-	-					
Layer Insul.	40#						
Test Volt.							
Wrapper	70051c	70051c					
TUBE	70071c		IMPREGNATION	Varnish			
CORE	7/8 x 1 3/8	GA.	24	GRADE	D	STACK	2x2
MOUNTING	A or B						



DESIGNED BY J.S.D

DATE 7/20

Pri - 110/120V

Sec - 6.30 CT @ 3A

2000 W.V.
Insulation

SPEC. NO. F-703 Special

Winding	Pri	Shield	Sec				
Turns	790	1	46				
Taps	725	-	23				
Wind. Lgth.	1 1/16"	1 1/16"	1 1/16"				
Wire Size	#28	#001 Cu Sheet	#18				
T. P. L.	66-12L	1	24-2L				
Finish	89%	-	-				
Type Lead	#30 Pri. Br.	#25 Solid	W.O. Irradiate	Slip			
Lead Lgth.	9"	4"	9"				
Layer Insul.	12 30#6	-	12 005 GA				
Test Volt.	-	-	5000V				
Wrapper	2L-0056A	2L-0056A	2L-0056A				
TUBE	66-007 GR			IMPREGNATION		Varnish	
CORE		GA. 24		GRADE D		STACK	

MOUNTING "A" Leads

$Cu = 695 - 540$

$Fe = 69.4 @ 60V$

$TPV = 616$

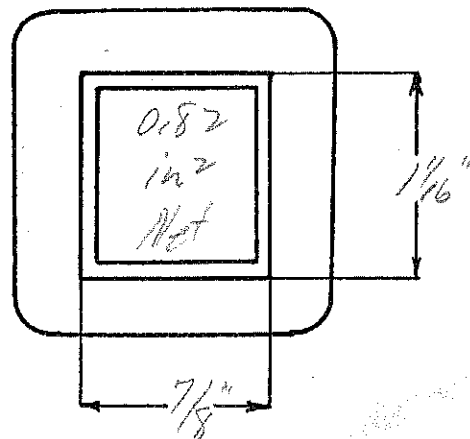
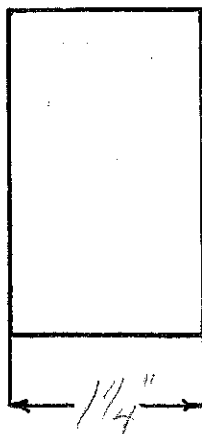
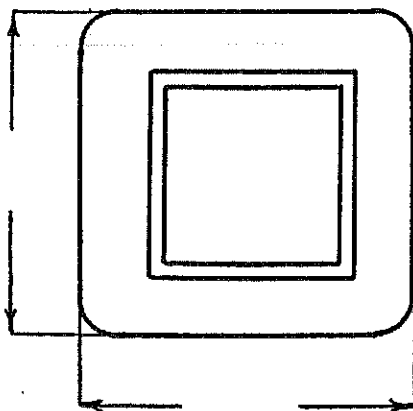
Wire Net = 0.314"

$Sec VA = 18.9$

$Pri VA = 25.3$

$Pri I = 230mA$

$\alpha = 83 \cos \theta = 90$



Re-DESIGNED BY HWS

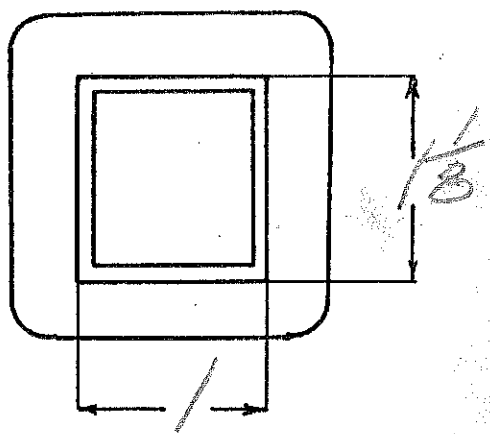
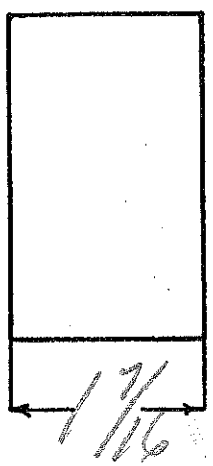
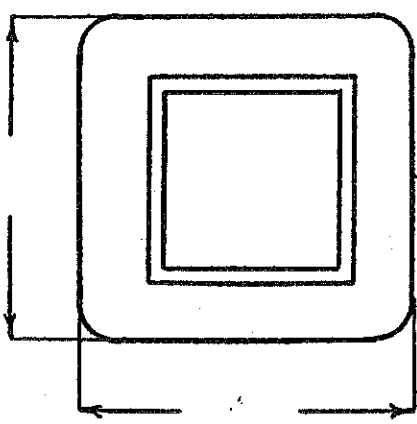
DATE 1-5-42

Ep 210-230-250
 Black yellow Brown
 EF - 25 VOLT. - 3.5 amp

start white

SPEC. NO. F-704-2302

Winding	P	F				
Turns	1300 1200	43				
Taps	1100	22				
Wind. Lgth.	1.25					
Wire Size	#30	#17				
T. P. L.	101					
Finish						
Type Lead	#70 #62	w.o.				
Lead Lgth.	9"	9"				
Layer Insul.	40H					
Test Volt.						
Wrapper	2105GA	2105GA				Double
TUBE	71007		IMPREGNATION			VARNISH
CORE	1x1 1/8	GA.	GRADE			STACK
MOUNTING	A					



DESIGNED BY

DATE 12/7/37

Pri. - 110/120V - 60 Cycle

Fil. - 7.5V GT @ 3.75A

SPEC. NO. F - 704

Winding	Pri.		Sec.			
Turns	790		56			
Taps	725		25			
Wind. Lgth.	1 1/4"		1 1/4"			
Wire Size	#27		#17			
T. P. L.	74 - 1LL		21 - 3L			
Finish Pitch	90%		70%			
Type Lead	#30 Pr. Bp.		W. O.			
Lead Lgth.	9"		9"			
Layer Insul.	40%		.005" K			
Test Volt.	1250V		2500			
Wrapper	2L .007" GA		2L .007" GA			

TUBE	6L - .007" GK	IMPREGNATION	VARNISH
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CORE	1" x 15/16" EI GA.	24	GRADE D	STACK 2 x 2
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MOUNTING "A" ~~OR~~ *Note: Multi-Wind Prim. Single v Sec.*

cu = 590 - 544

Fe = 69 @ 60 Cycle

TPV = 6.6

wire Net = (.362) .545

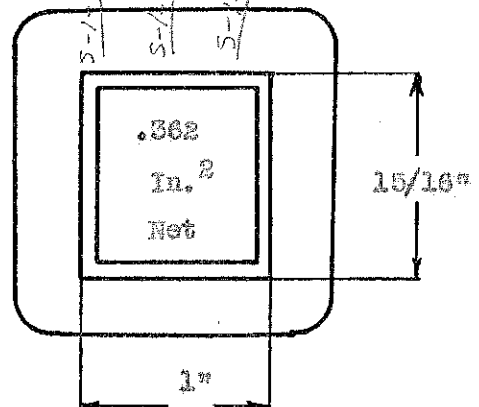
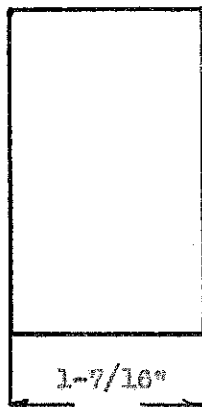
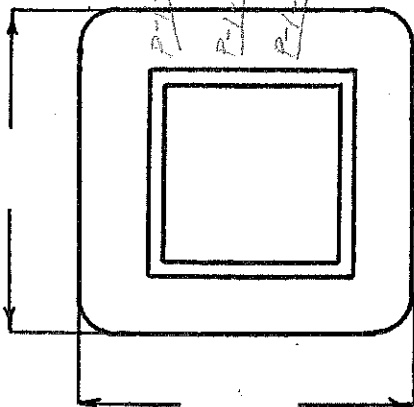
Sec. VA = 28.2

Pri. VA = 37.8

Pri. I = .343

Efficiency = 85%

cos φ = 90%



Redesigned BY H. E. S., Jr.

DATE 7 - 24 - 41

120 P-1-3 Yellow

110 P-1-2 Black

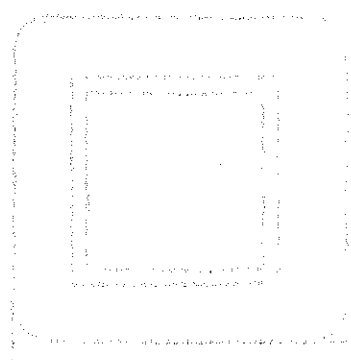
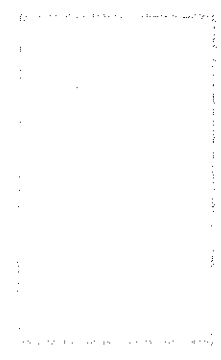
0 P-1-1 White

White F-1-1

F-1-2 CT

White F-1-3

7.5V @ 3.75 Amp.



Ep - 110 V. - 120 V.
 Ef - 10 V.C.T. - ~~500~~ A. - 2500 V. Ins.

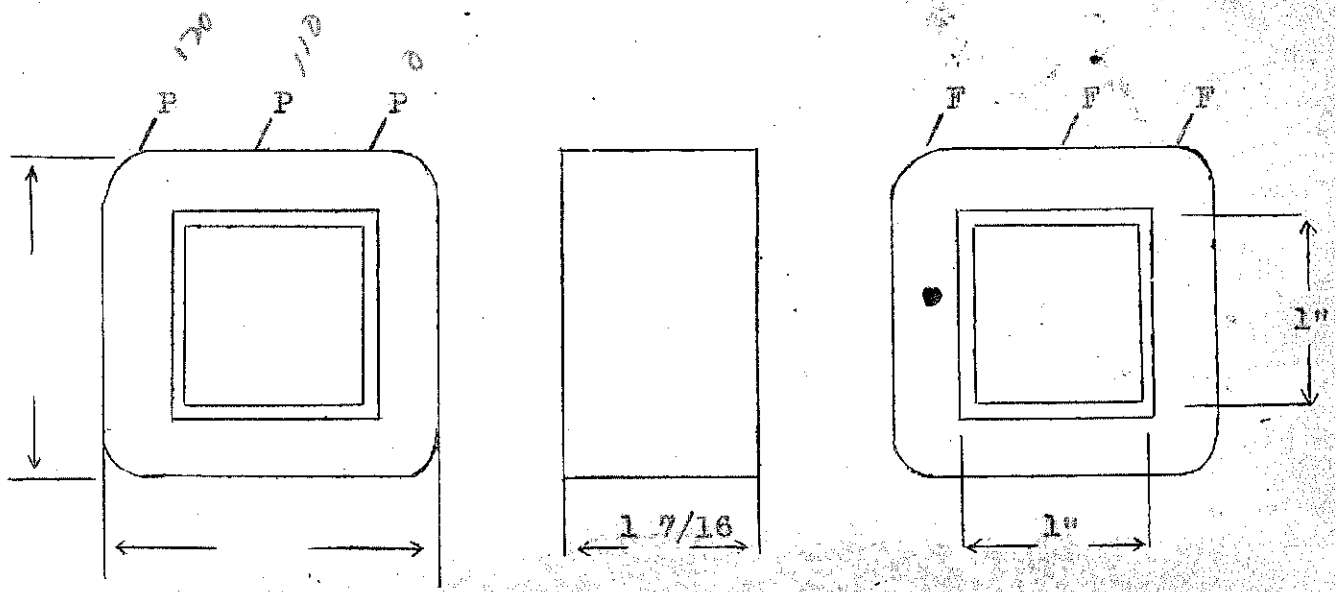
4

OLD

SPEC. NO. 3705

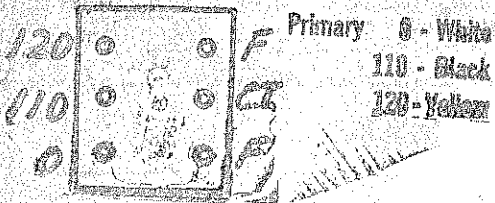
white

Winding	PRI.	F ₁					
Turns	695	66					
Taps	640	33					
Wind. Lgth.	1.25	---					
Wire Size	#27	#17					
T.P.L.	65-11	---					
Kind Term.	WIRE #20 P.Br	WIRE					
Term. Lgth.	3" 9"	3" - 9"					
Layer Insul.	30#						
Test Volt.							
Wrapper	3L.005GA	3L.005GA					
TUBE	4L.007		IMPREGNATION			VARNISH	
CORE	1 x 1 NW				PRIMARY V.A.		
MOUNTING	A or B						



DESIGNED BY G. W.

DATE



5.8, 5.9
6.3, 6.2

E_p - 220 240

5.73

E_s - 10 V.C.T. - 3.5 amps.

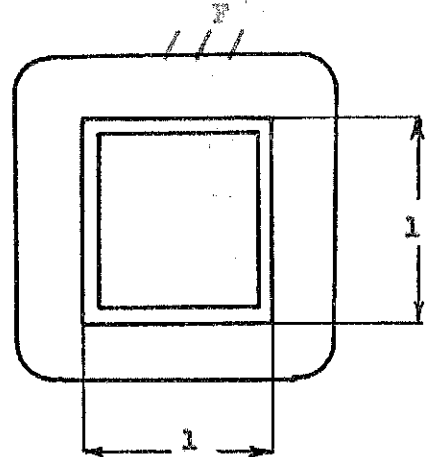
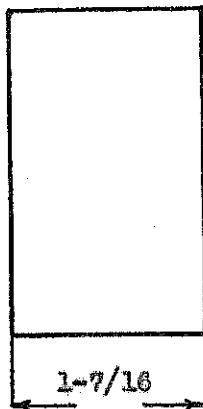
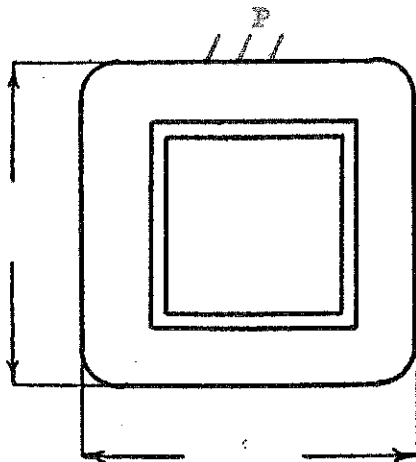
SPEC. NO. F705-230 V.

Winding	P	White F				
Turns	1370	64				
Taps	1260	32				
Wind. Lgth.	1.25	1.25				
Wire Size	#30	#17				
T. P. L.	106-13	---				
Finish						
Type Lead	WIRE ONLY or #30 P. Braid on pri.					
Lead Lgth.	3	3				
Layer Insul.	50%					
Test Volt.	1500	2500				
Wrapper	1L007V0 2L005GA	1L007V0 2L005GA				

TUBE	6L007	IMPREGNATION	VARNISH
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CORE 1 x 1 GA. 24 GRADE Δ STACK 2 X 2

MOUNTING A or B



DESIGNED BY

DATE

Primary - 110/120V - 60 Cycle

Secondary - 5.1V @ 6.5A

SPEC. NO. P-706

Winding	Pri.	Sec.				
Turns	720	36				
Taps	060	18				
Wind. Lgth.	1 1/2"	1 1/2"				
Wire Size	#26	#14				
T. P. L.	66 - 11L	18 - 2L				
Finish						
Pitch	90%	95%				
Type Lead	#20					
Lead Lgth.	Pr. Br.	W. O.				
Lead Lgth.	9"	9"				
Layer Insul.	40% G	.007" GA				
Test Volt.	1250V	2500V				
Wrapper	2L .007" GA	2L .007" GA				

TUBE 6L - .007" CK IMPREGNATION VARNISH

CORE 1" x 1-1/16" HI GA. 24 GRADE D STACK 2 x 2

MOUNTING "A" *Note: Multi-Wind Prim. Single v SAC.*

Cu = 686 + 652

Fe = 67 @ 60 Cycle

TPV = 8

Wire Net = (.370") .5552"

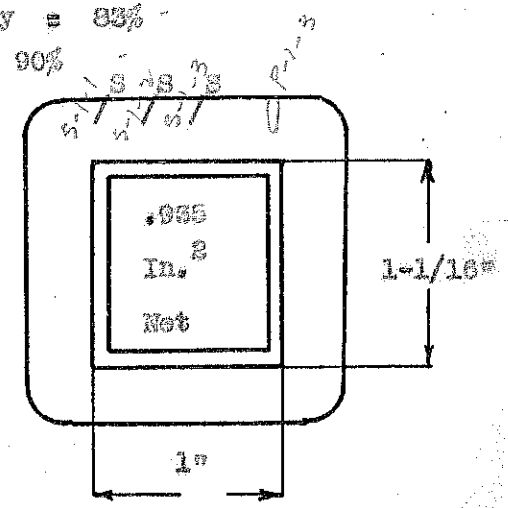
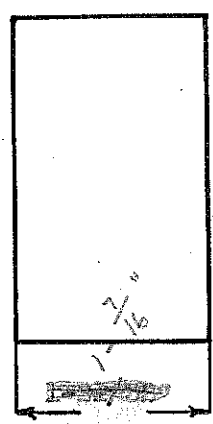
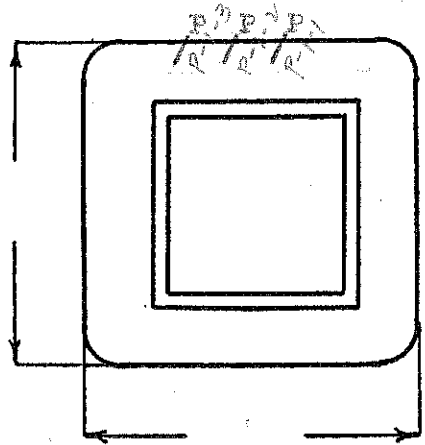
Sec. VA = 33.2

Pri. VA = 44.5

Pri. I = .370

Efficiency = 83%

cos φ = 90%



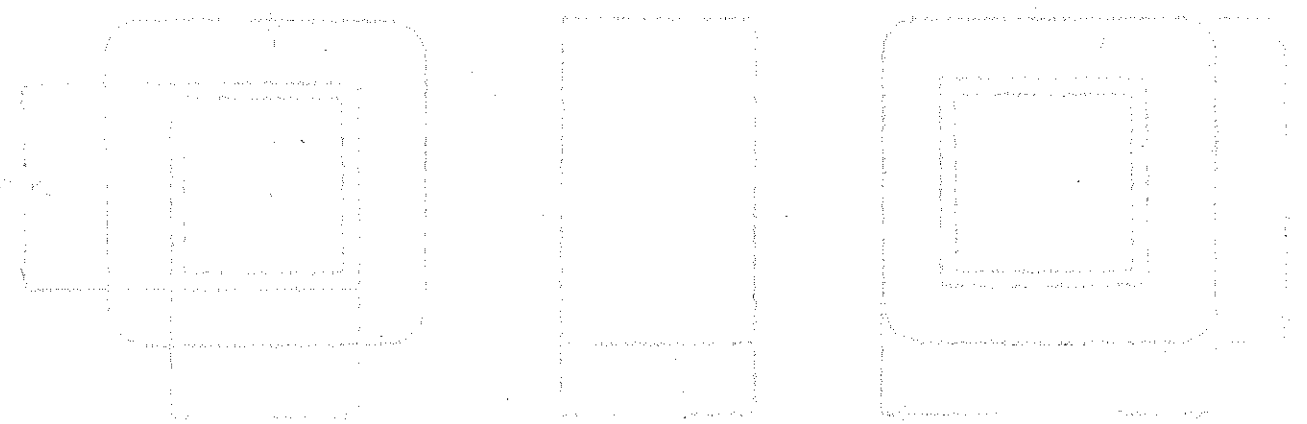
DESIGNED BY H. E. S., Jr.

DATE 7 - 24 - 41

120 P-1-3 Yellow
110 Black P-1-2
0 White P-1-1

Green F-1-1
CT F-1-2
Green F-1-3

5.1 V @ 6.5 Amp



FILAMENT

STOCK

107-115-122 volts @ 50/60 cycles

5.1 volts CT @ 6.5 Amps

SPEC. NO. F706

Winding		1-2-3-4 Pri.		5-6-7 Sec.			
Turns		821		40			
Taps		720-773		20			
Wind. Lgth.		1 1/4		1 1/4			
Wire Size		#26		#15			
T. P. L.		67-13L		20-2L			
Finish		91%		94%			
Type Lead		W.O.		W.O.			
Lead Lgth.		3"		3"			
Layer Insul.		40#		1L007GA			
Test Volt.		1250		2500			
Wrapper	2L007GA			2L007GA			

TUBE 6L007GK IMPREGNATION Varnish

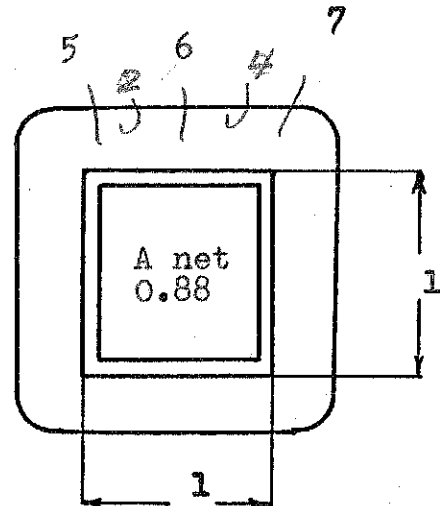
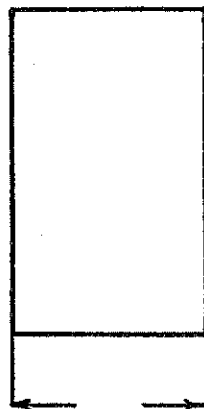
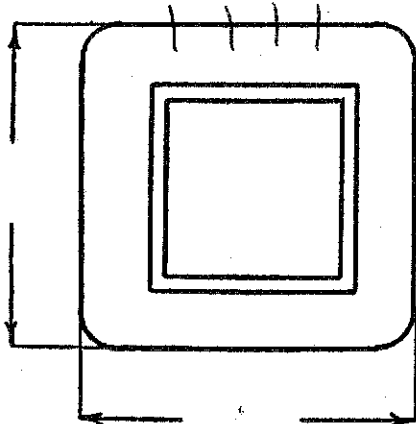
CORE 1 x 1 GA. 24 GRADE STACK

MOUNTING B - Primary Lugs to Right.

Use Super Lugs

T. P. V. - 6.7
 Window - $4586/5000 = 91.7\%$

4 3 2 1



DESIGNED BY

S. W. B.

DATE

5-5-47

DESIGN AND TEST DATA

Rating:

Sec. VA = 33.2

Pri. VA = 44.5

Pri I = 416

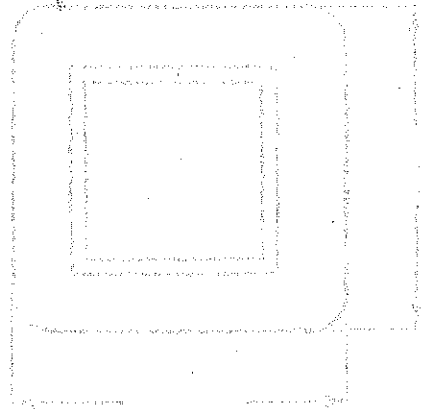
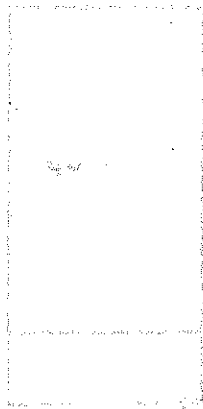
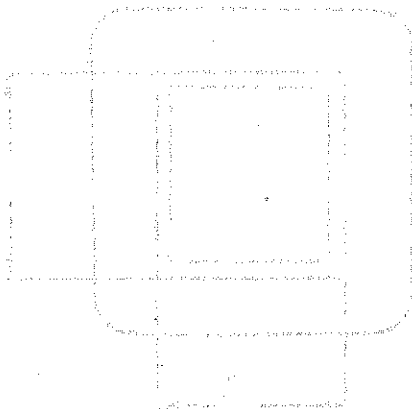
Winding	Pri.	Sec.			
Mean Turn	5.23	6.83			
Resistance 25° c	15.0	.0773			
Pounds Copper	.280	.237			
Copper Density	612	502			
Ratio Volts	107-115 122	5.14 on 107 volts			
Test to Ground	1250	2500			

Iron Induction 11.8 kg @ 50 Cycles

Exciting Current 64 milliamperes @ 115 volts 60 cycles on 1-3

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

Remarks:



DESIGN AND TEST DATA

Rating:

Sec. VA = 33.2

Pri. VA = 44.5

Pri I = 416

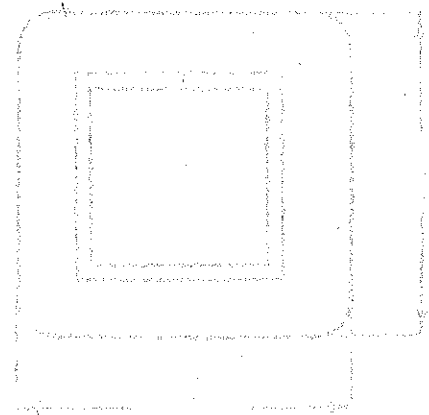
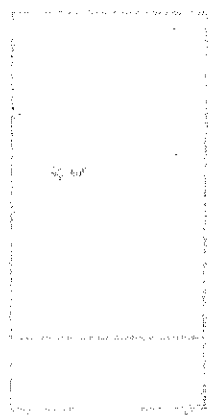
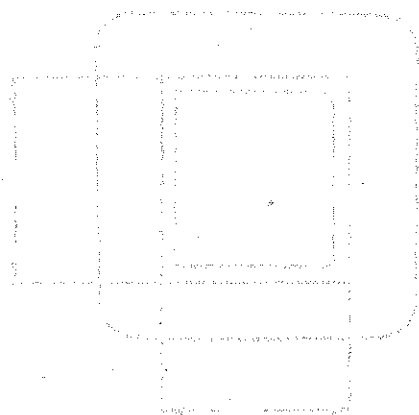
Winding		Pri.		Sec.		
Mean Turn		5.23		6.83		
Resistance 25° c		15.0		.0773		
Pounds Copper		.280		.237		
Copper Density		612		502		
Ratio Volts		107-115 122		5.14 on 107 volts		
Test to Ground		1250		2500		

Iron Induction 11.8 kg @ 50 Cycles

Exciting Current 64 milliamperes @ 115 volts 60 cycles on 1-3

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

Remarks:



FILAMENT

STOCK

107-115-122 volts @ 50/60 cycles

5.1 volts CT @ 6.5 Amps

SPEC. NO. F706

Winding	1-2-3-4 Pri.	5-6-7 Sec.		
Turns	821	40		
Taps	720-773	20		
Wind. Lgth.	1 1/4	1 1/4		
Wire Size	#26	#15		
T. P. L.	67-13L	20-2L		
Finish	91%	94%		
Type Lead	W.O.	W.O.		
Lead Lgth.	3"	3"		
Layer Insul.	40#	1L007GA		
Test Volt.	1250	2500		
Wrapper	2L007GA →	2L007GA		

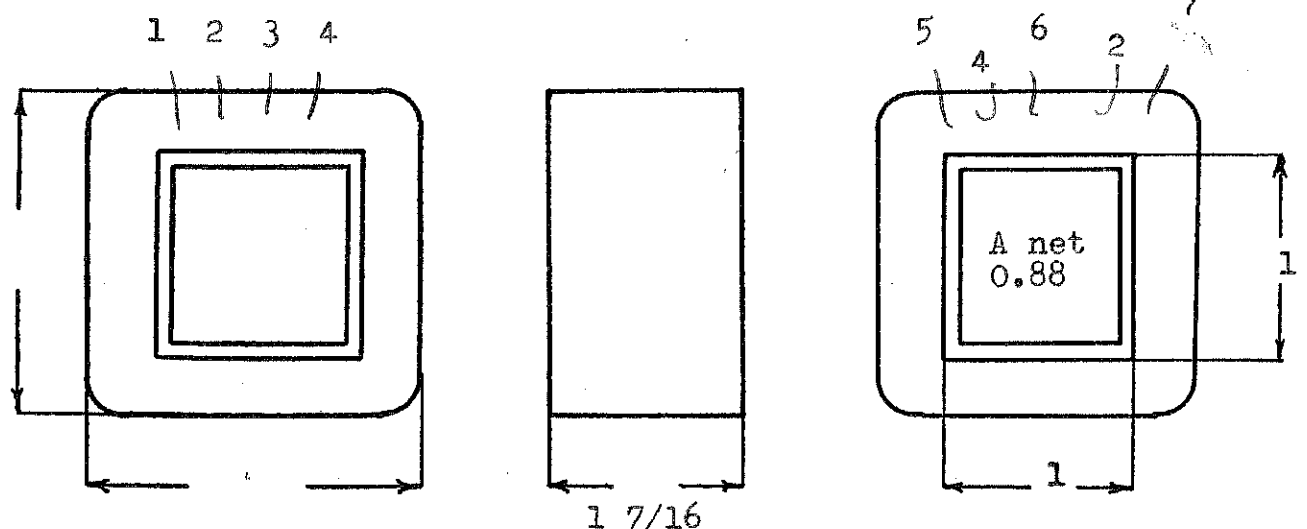
TUBE	6L007GK	IMPREGNATION	Varnish
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CORE 1 x 1 GA. 24 GRADE STACK

MOUNTING *D* ~~LEADS~~ *Primary Leads to Right*

~~Use Super Lugs~~

T. P. V. - 6.7
 window - $0.4586/50 = 91.7\%$



DESIGNED BY *S. W. B.*

DATE *5-5-47*

DESIGN AND TEST DATA

Rating:

Sec. VA = 33.2

Pri. VA = 44.5

Pri I = 416

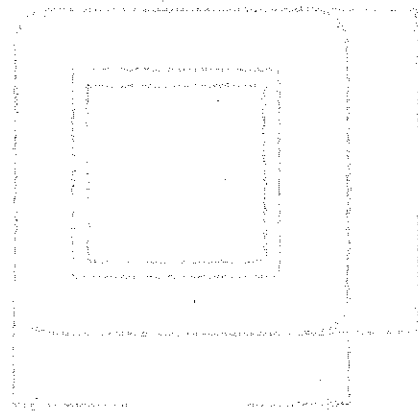
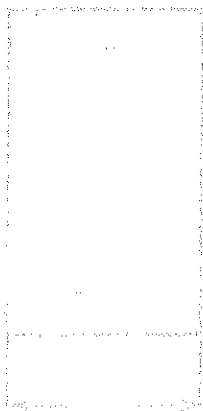
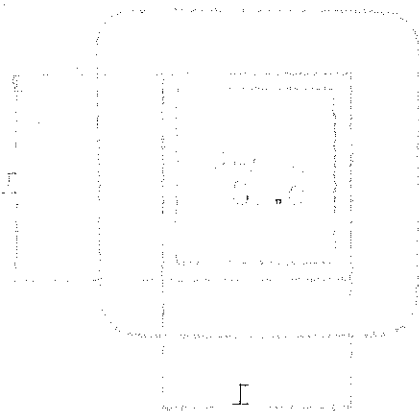
Winding		Pri.		Sec.		
Mean Turn		5.23		6.83		
Resistance 25° c		15.0		.0773		
Pounds Copper		.280		.237		
Copper Density		612		502		
Ratio Volts		107-115 122		5.14 on	107 volts	
Test to Ground		1250		2500		

Iron Induction 11.8 kg @ 50 Cycles

Exciting Current 64 milli amperes @ 115 volts 60 cycles on 1-3

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

Remarks:



Ep- 210, 220-250

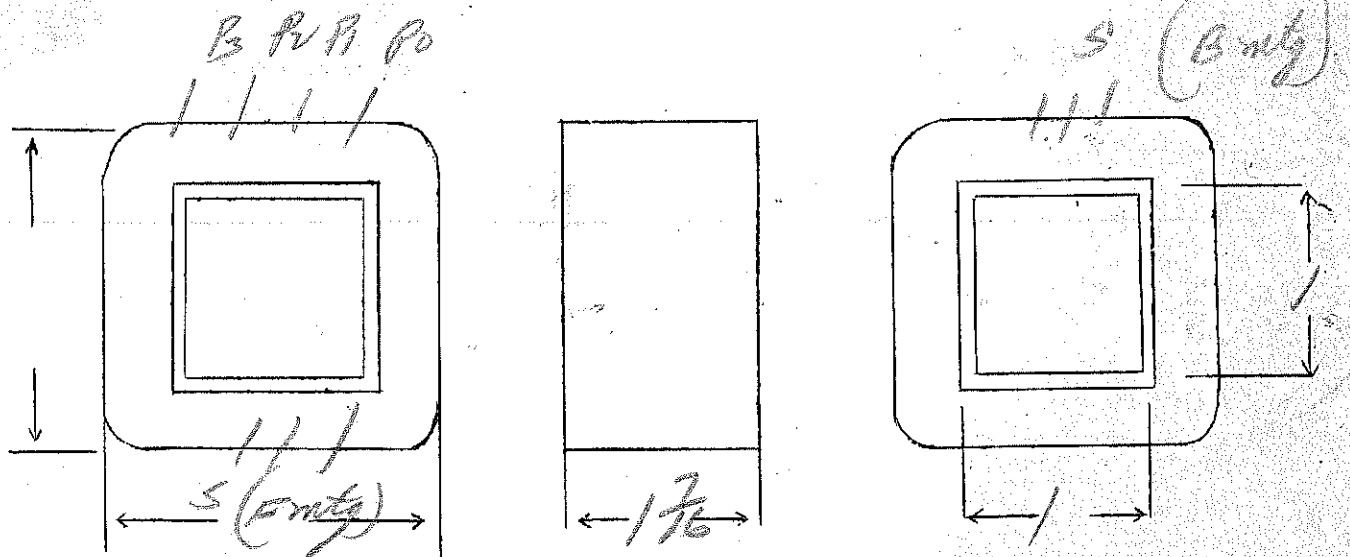
EA- 215V-12amp CT

57

SPEC. NO.

F710-U-230

Winding	PRI		FL			
Turns	1415		16			
	1310					
Taps	1205		8			
Wind. Lgth.	1.25		double			
Wire Size	#30		#15			
T.P.L.	105-14					
Kind Term.	silbr		N.O.			
Term. Lgth.	3"		3"			
Layer Insul.	40#					
Test Volt.			5000			
Wrapper	21007K5 21005GA		21007K5 21005GA			DOUBLE VARNISH
TUBE	7L007			IMPREGNATION		
CORE	1X1				PRIMARY V.A.	
MOUNTING	as ordered					

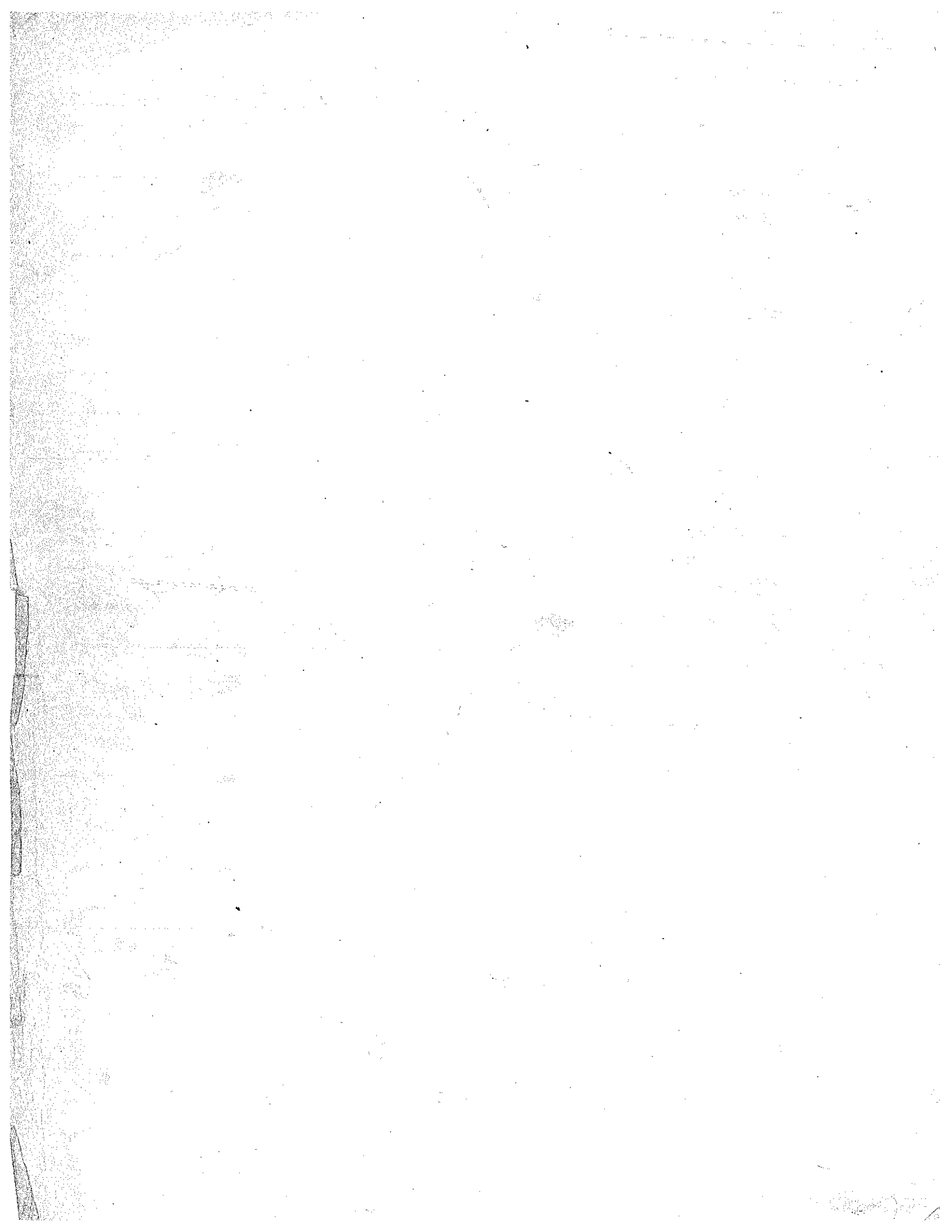


DESIGNED BY

SW

DATE

3/13/38



Primary - 110/120V @ 60 Cycle
 Filament - 2.5V CT @ 10 Amp.
 6000V Insulation

Duplicate No. 2

S T O C K

SPEC. NO. F-710

Winding	Primary	Secondary				
Turns	650	16				
Taps	605	8				
Wind. Lgth.	1-1/4"	1-1/4" = 1.25"				
Wire Size	#26	D-#15				
T. P. L.	64 - 11L	9 - 2L	-	Center Winding on	Coil	
Finish Pitch	87%	92%				
Type Lead	#22 DULAC W. O.	for "A" W. O.				
Lead Lgth.	12" for 3"	"A" 3"				
Layer Insul.	40#	.005" A				
Test Volt.	1250V	6000V				
Wrapper	2L 007" VG 2L 005" GA	2L 007" VG 2L 005" GA				

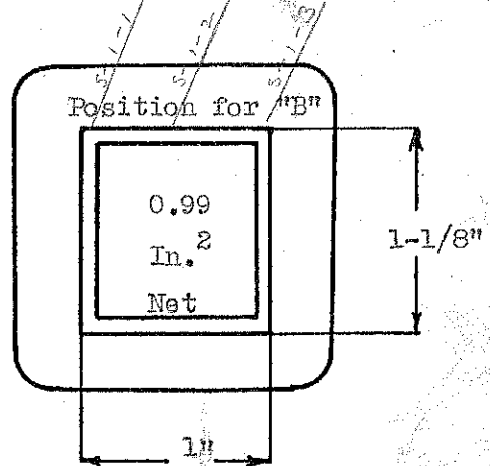
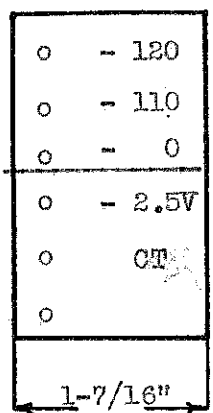
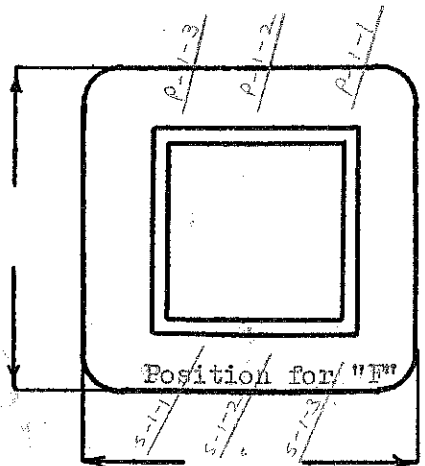
TUBE	7L - .007" GK	IMPREGNATION	VARNISH
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CORE 1" x 1-1/8" E & I GA. 24 GRADE D STACK 2 x 2

MOUNTING "B" or "F" NOTE: Multiple-Wind Primary
 Single-Wind Secondary

Cu = 694 - 650
 Fe = 68.8 @ 60 Cycle
 TPV = 5.5
 Wire Net = .541" (.546")

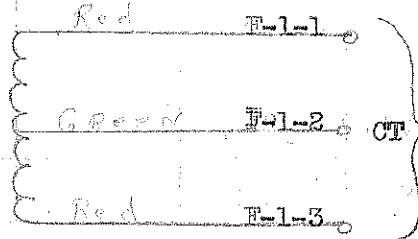
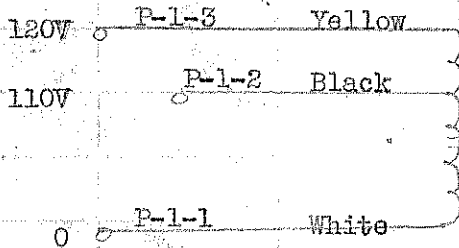
Sec. VA = 30
 Pri. VA = 40.2
 Pri. I = .366
 Efficiency = 83%
 COS θ = 90%



DESIGNED BY HESy Jr.

DATE 7-26-41
 3-16-43

F-703

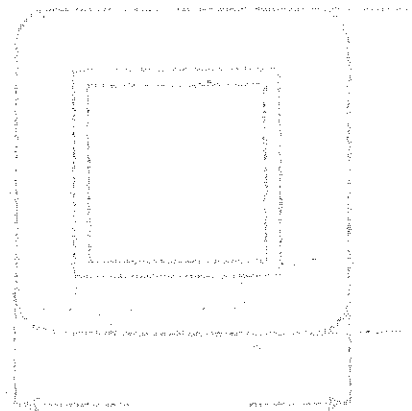
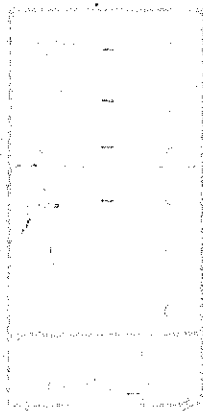
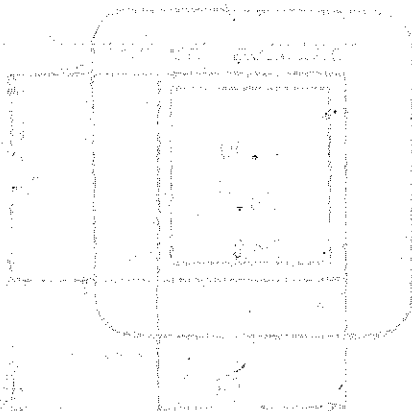


2.5V CT
@ 10 Amp.

Panels

120	□	2.5
110	□	CT
0	□	2.5

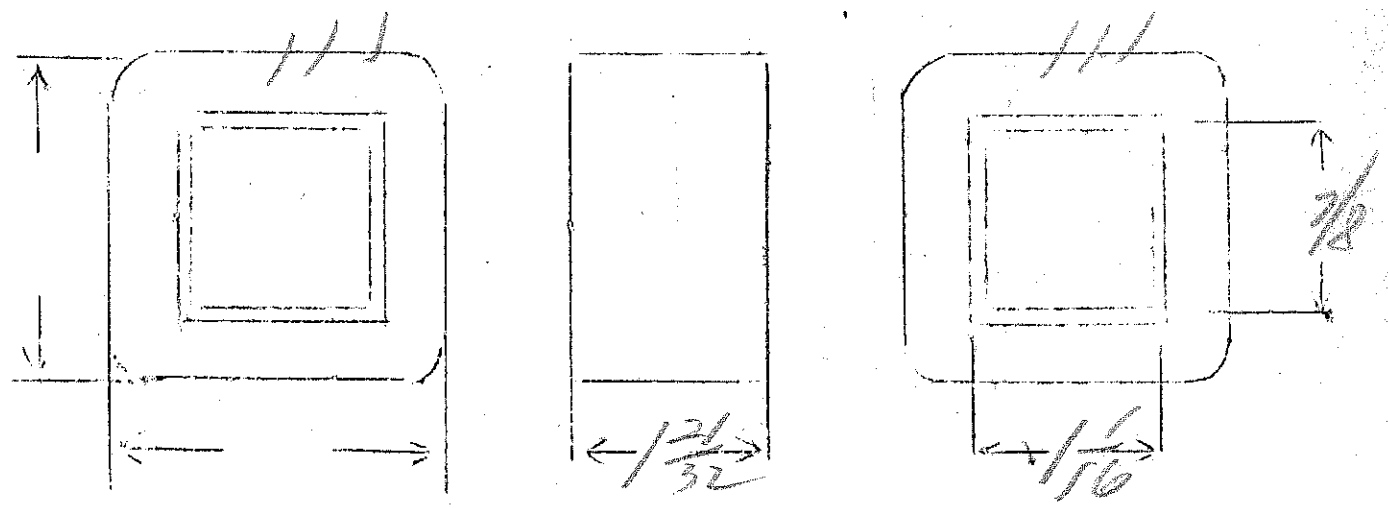
"B" or "F"



$E_p - 110, 125V$
 $E_T - 10VCT - 5Amps$
 5000 v. Insulation

SPEC. NO. 713

Winding	PRI	SEC				
Turns	745	68				
Taps	685	34				
Wind. Lgth.	$1\frac{5}{32}$	—				
Wire Size	#25	#16				
T.P.L.	70-10	—				
Kind Term.	#70 Per	W. ONLY				
Term. Lgth.	9"	9"				
Layer Insul.	40#					
Wrapper	2L005VC 2L005GA	2L005VC 2L005GA				
TUBE	7L0-07		IMPREGNATION		VARNISH	
CURE	$1\frac{1}{16} \times 3/8$					



$V_{Ep} = 110 - 120 V$

$B = 12,200$

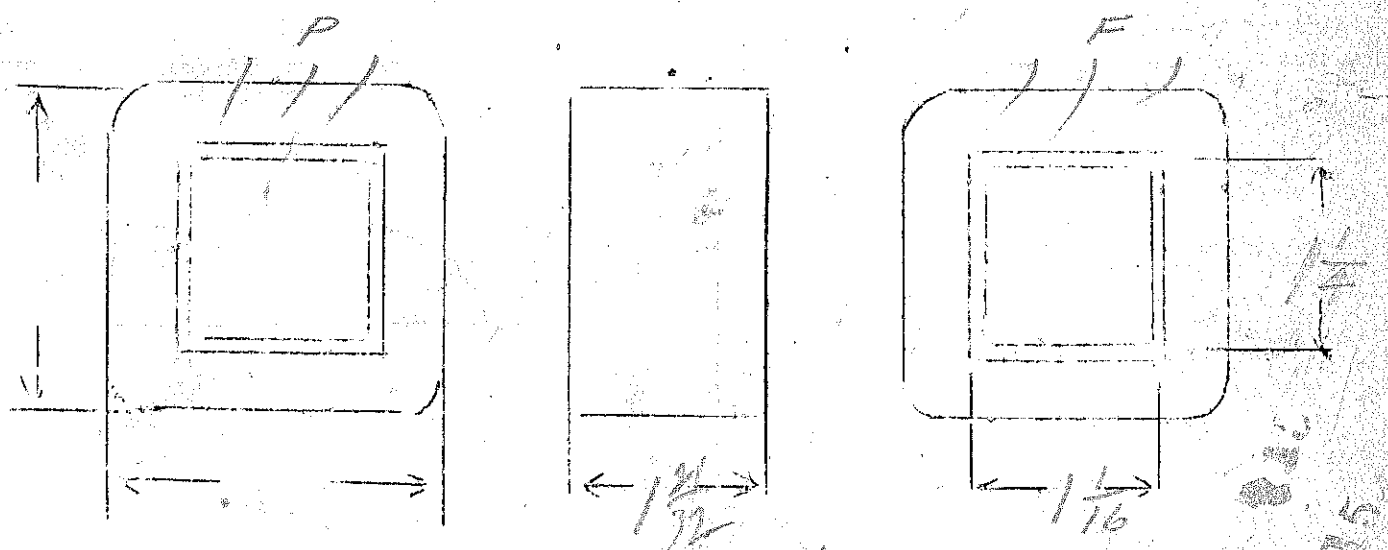
$E_F = 10V.C.T. - 10 Amps$

$\frac{V}{E} = 4.28$

Insulation 5000 Volts

SPEC. NO. 714

Winding	PRI	white FIL				
Turns	513	46				
Taps	470	23				
Wind. Lgth.	$1\frac{7}{16}$	$1\frac{7}{16}$				
Wire Size	#22	#16 DOUBLE				
T.P.L.	49-11	12-4				
Kind Term.	WIRE	WIRE				
Term. Lgth.	9"	9"				
Layer Insul.	50#					
Wrapper	1L009VC 2L0055A	1L009VC 2L0055A				
TUBE	71007		IMPREGNATION		VARNISH	
CURE	$1\frac{1}{16} \times 1\frac{1}{4}$					



Check fatness

201
518
1015

$E_p = 110V$

$\frac{N}{E} = 6$

$E_{F1} = 6.3V - 4A$

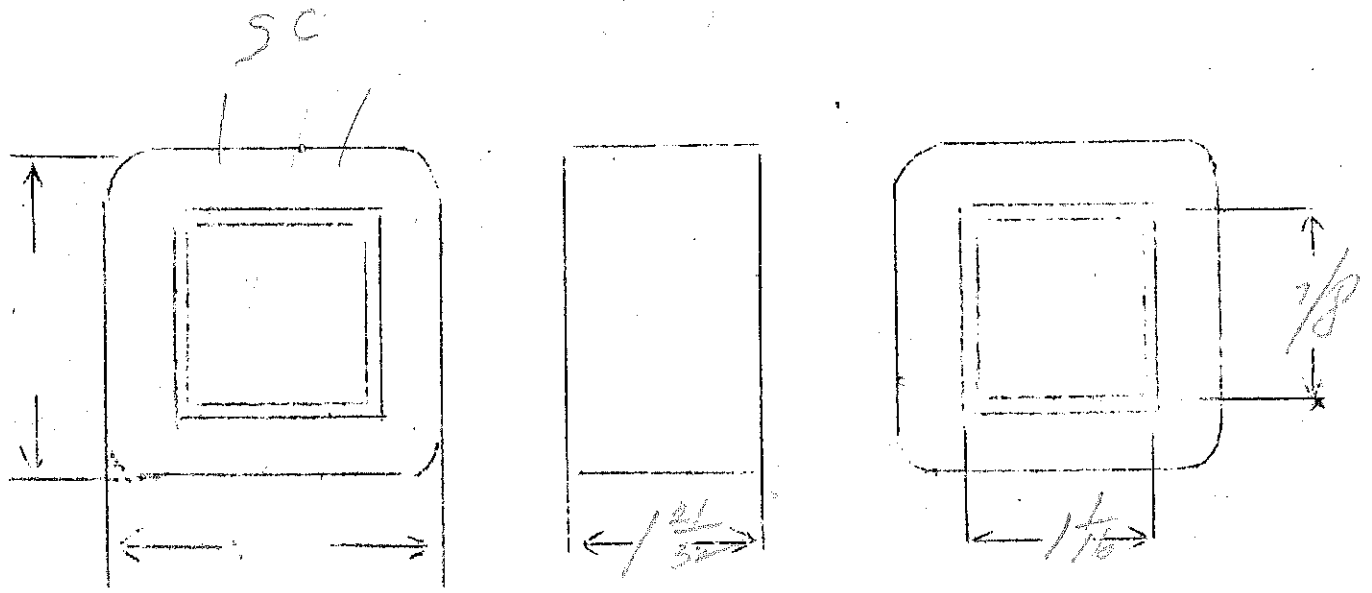
$E_{F2} = 10V - 4 \text{ amperes}$

5000V Dns

Blue white

SPEC. NO. 715

Winding	PRI	F ₁	F ₂				
Turns	660	41	66				
Taps	—	21	33				
Wind. Lgth.	$1 \frac{15}{32}$		—				
Wire Size	#25	#17	#17				
T.P.L.	67-10	3 layers	3 layers				
Kind Term.	#20 PBR	WIRES ONLY					
Term. Lgth.	9 11	9"	9"				
Layer Insul.	307						
Wrapper	2LU070C 2LU056A	2LU070C 2LU056A	2LU070C 2LU056A				
TUBE	4L007	IMPREGNATION		VARNISH			
CURE	$1 \frac{1}{16} \times \frac{7}{8}$						

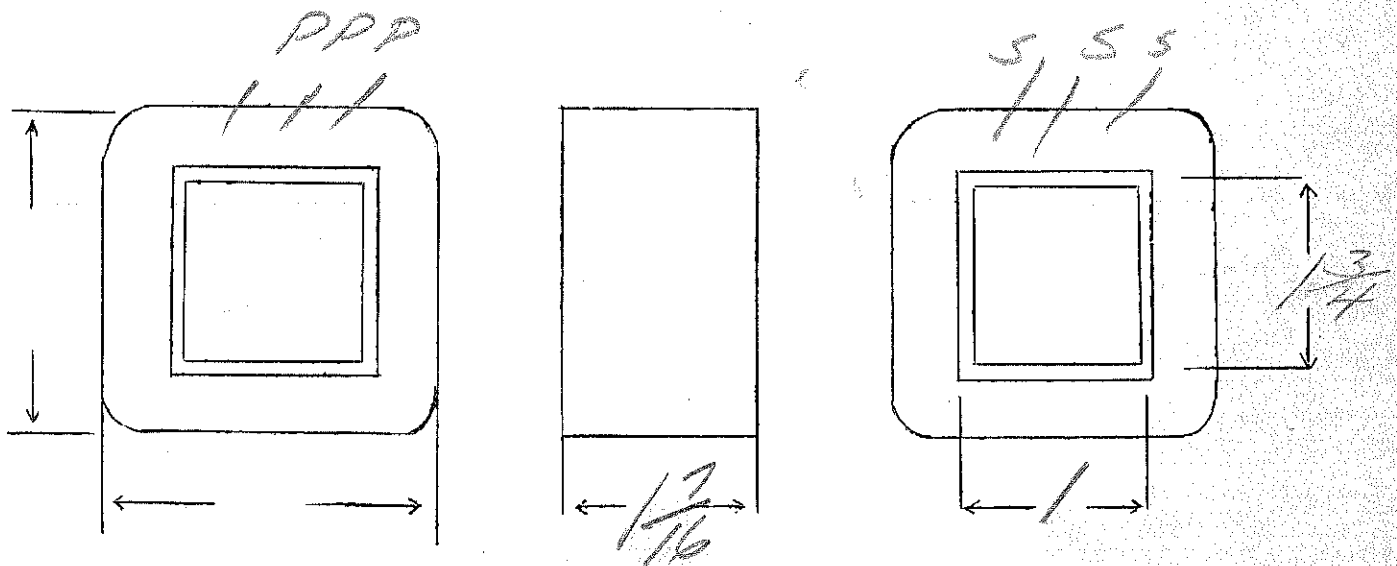


Ep-110-120V
 Ef-6.3VOT-6A

6.1

SPEC. NO. F716-25A

Winding	PRI	SEC				
Turns	730	44				
Taps	670	22				
Wind. Lgth.	1.25	1.25				
Wire Size	#26	#15				
T.P.L.	67-11	3L				
Kind Term.	WIRE ONLY					
Term. Lgth.	3"	3"				
Layer Insul.	40#					
Test Volt.						
Wrapper	2L005GA 2L005GA					
TUBE	6L007		IMPREGNATION	VARNISH		
CORE	1 x 1 3/4		PRIMARY V.A.			
MOUNTING	B					



DESIGNED BY GW

DATE 6/25/37

Sp - 110/120

EF - 6.5V OT & GA

SPEC. NO. F-718

File Copy 4/11

Winding						
	Pri.		Sec.			
Turns	600		50			
Taps	006		10			
Wind. Lgth.	1-1/4"		1-1/4"			
Wire Size	#20		#15			
T. P. L.	50 - 12L		20 - 12L			
Finish	99.5%		94.5%			
Type Lead	#20 Pr. Hr.	W.O. for "B"	W.O.			
Lead Lgth.	9"	3" for B	9"			
Layer Insul.	40%		.005" GK			
Test Volt.	1350					
Wrapper	2L .005" GA		2L .005" GA			

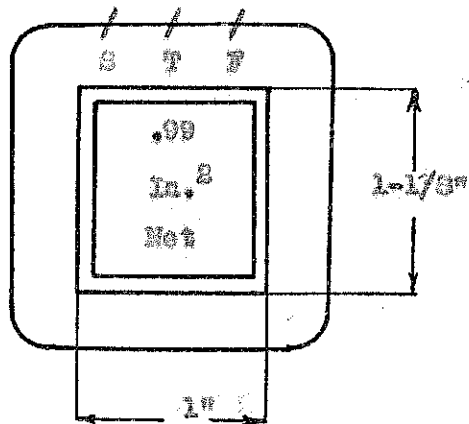
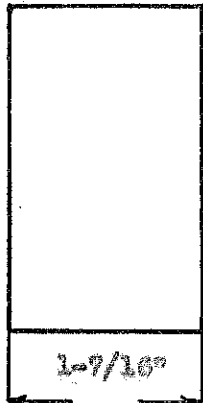
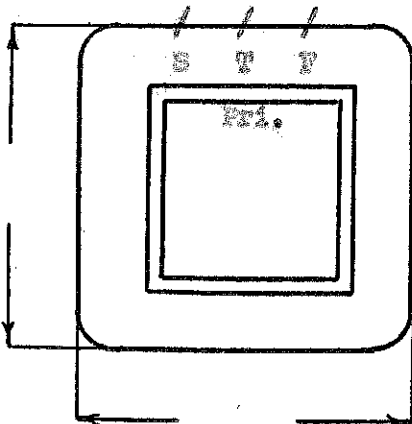
TUBE	5L - .007" GK	IMPREGNATION	VANTON
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CORE	1 x 1-1/8" E & I GA.	24	GRADE	D	STACK	2 x 2
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MOUNTING	"A" or "B"
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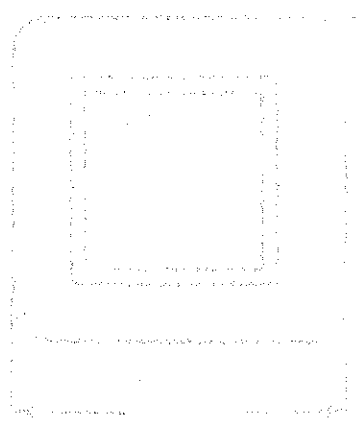
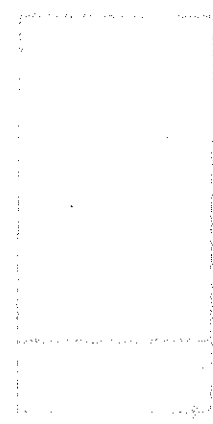
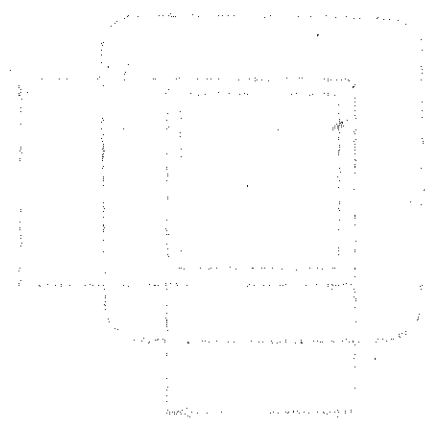
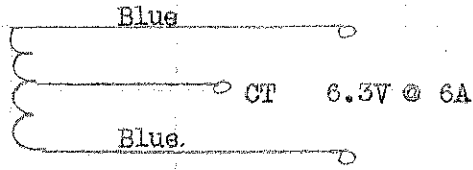
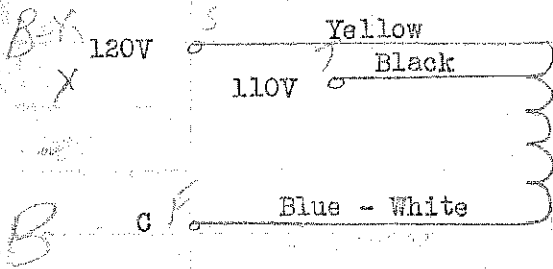
Cu = 606 - 544
 Fe = 69 @ 60 Cycle
 6.5V = 6.5
 Wire Net = (.200") .381"

Sec. VA = 57.6
 Pri. VA = 80.6
 Pri. I = .460
 Efficiency = 85%
 COS θ = 90%



DESIGNED BY H. R. S., Jr.

DATE 7 - 24 - 41



FILAMENT TRANSFORMER

S T O C K

110/120V @ 60 Cycle

to

6.3V CT @ 6 Amp.

SPEC. NO. F-716-A

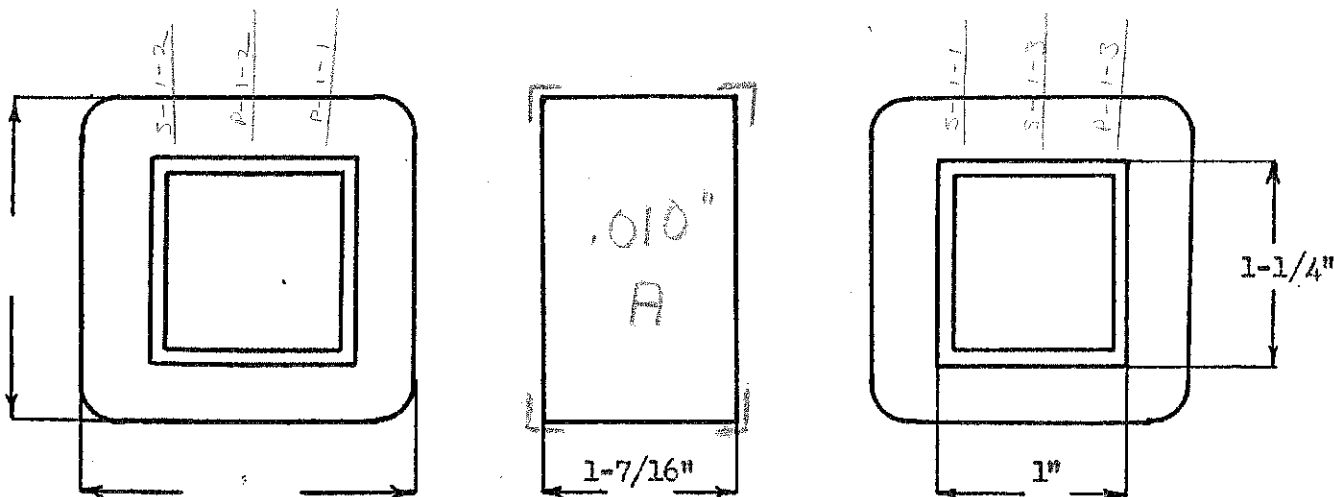
Winding	PRIMARY	SECONDARY
Turns	588	34
Taps	540	17
Wind. Lgth.	1-3/16"	1-1/8"
Wire Size	#25	#15
T. P. L.	54 - 11L	17 - 2L
Finish PITCH	86%	89%
Type Lead	#20 Pr. Br.	W. O. Sleeve
Lead Lgth.	9"	9"
Layer Insul.	1L 40#G	1L .007" GP
Test Volt.	1500V	2500V
Wrapper	2L .005" GA	2L .005" GA

TUBE	5L - .007" GK / 1L - .003" VP	IMPREGNATION	VARNISH
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CORE 1" x 1-1/4" E & IGA. 24 GRADE D STACK 2 x 2

MOUNTING "A" - LEADS

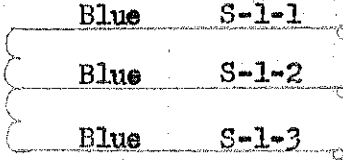
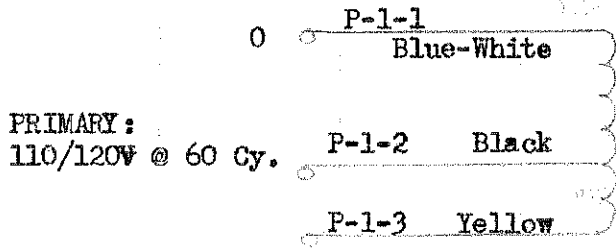
Cu = 696 - 544
 Fe = 69.5 @ 60 Cycle
 TPV = 4.91
 WN = .375 (.357)



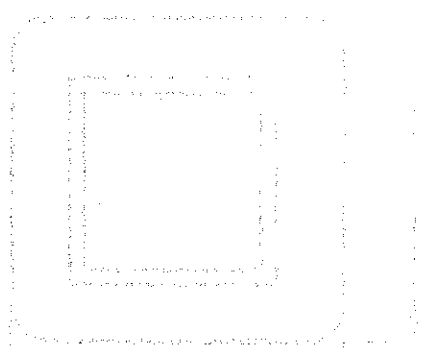
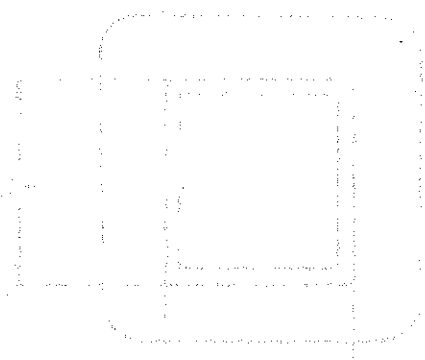
RE DESIGNED BY HHH

DATE 7-15-43

F-716-A



SECONDARY:
6.3V CT @ 6 Amp.

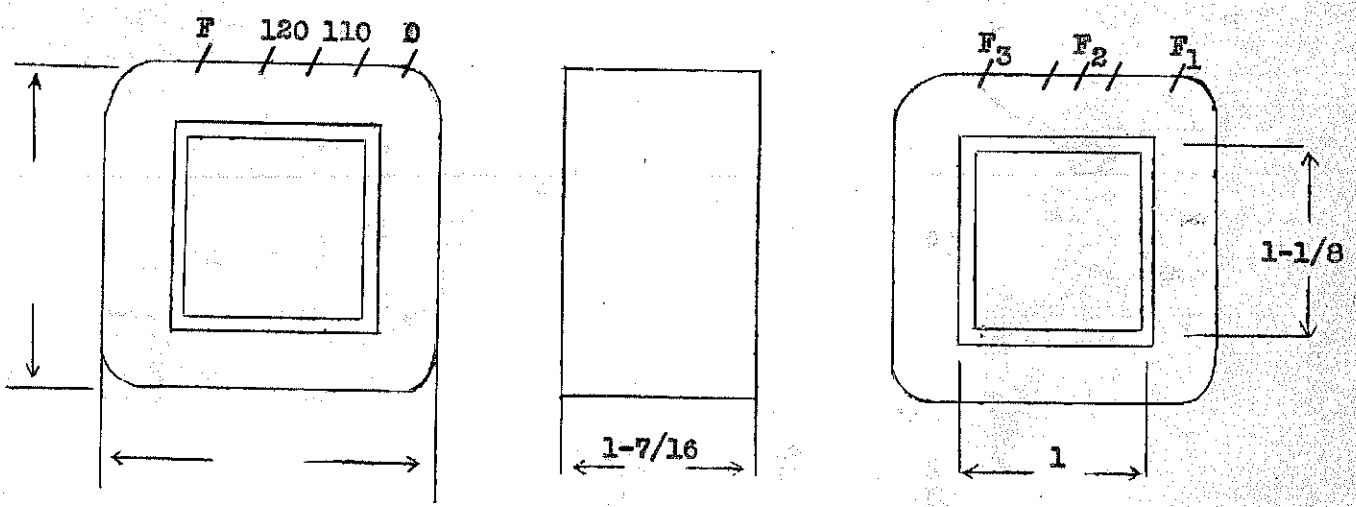


Pri. - 110V. - 120V.
 Fil #1 - 2.5V.C.T. - 4 Amps.
 #2 - 6.3V.C.T. - 3 Amps.
 #3 - 5V. - 3 Amps.

537
 12/13/38
 SPEC. NO. F718

Winding	PRI.	<i>Green</i> F ₃	<i>Blue</i> F ₂	<i>Black</i> F ₁			
Turns	645	30	38	15			
Taps	590	--	19	7			
Wind. Lgth.	1.25	1.25	1.25	1.25			
Wire Size	#26	#18	#18	Double #20			
T.P.L.	66-10		3L	1L			
Kind Term.	#20 Par. Br.		WIRED ONLY				
Term. Lgth.	9"	9"	9"	9"			
Layer Insul.	40#						
Test Volt.		2500 V.					
Wrapper	ZL005GA	ZL005GA	ZL005GA	ZL005GA			
TUBE	7L007				IMPREGNATION		VARNISH
CORE					PRIMARY V.A.		
MOUNTING	A or B						

Pri start - white
110 - black
120 - yellow



Primary - 105, 112, 120V - 60 Cycle

Filament - 2.5V CT @ 1.2A

10,000V Ins.

SPEC. NO. F-720

Winding	Pri.		Fl.			
Turns	660		16			
Taps	616 577		8			
Wind. Lgth.	1-5/32"		1"	- Center Winding -		
Wire Size	#25		#11	Note Winding Length		
T. P. L.	68 - 11L		9-2L			
Finish pitch	88.5%		84%			
Type Lead	W. O.		W. O.			
Lead Lgth.	6"		6"			
Layer Insul.	40#		.007" K			
Test Volt.	1250		10,000			
Wrapper	4L .007" VC 2L .007" GA		4L .007" VC 2L .007" GA			

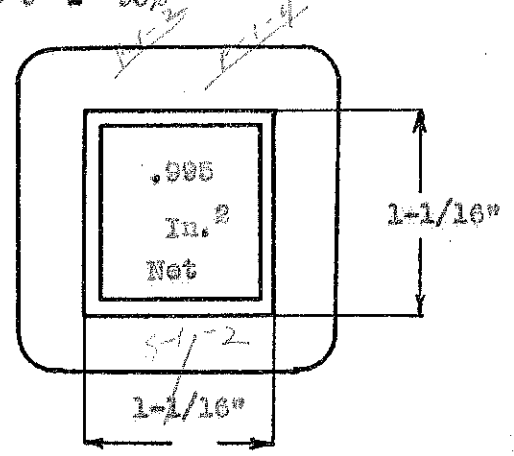
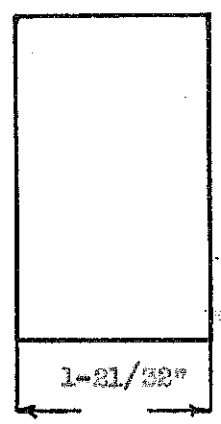
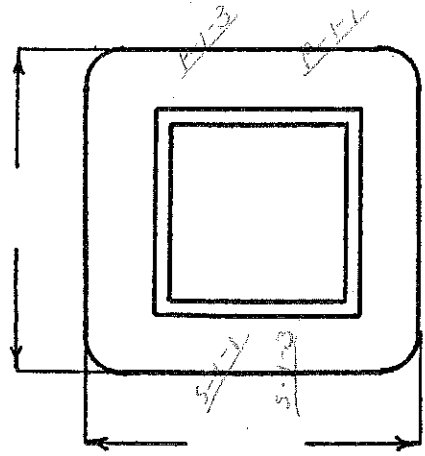
TUBE .7L - .007" GK IMPREGNATION VARNISH

CORE 1-1/16" x 1-1/16" GA. 24 GRADE D STACK 2 x 2

MOUNTING *B Note: Multi-Wind Pattern. Single - v Sec.*

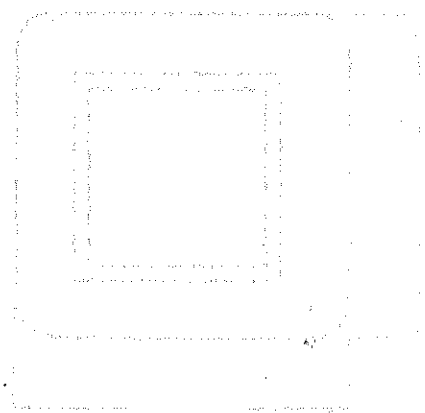
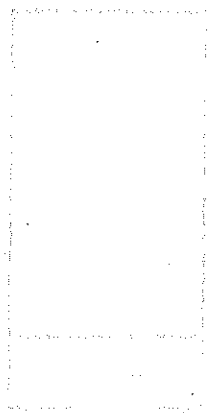
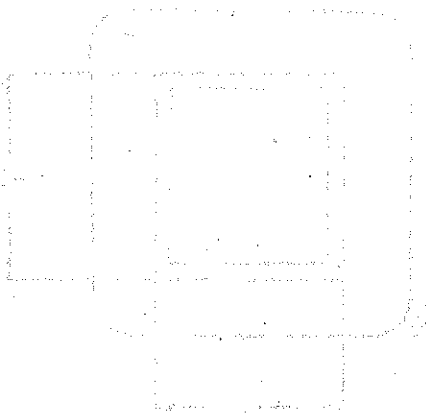
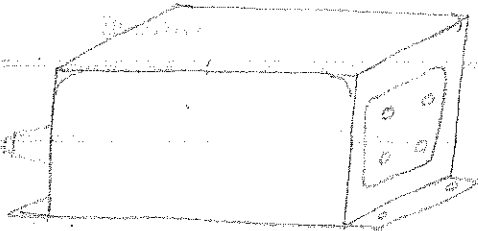
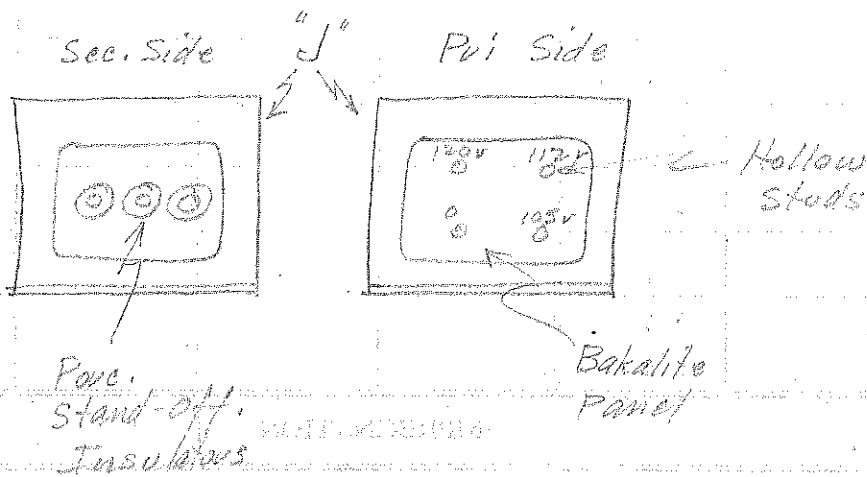
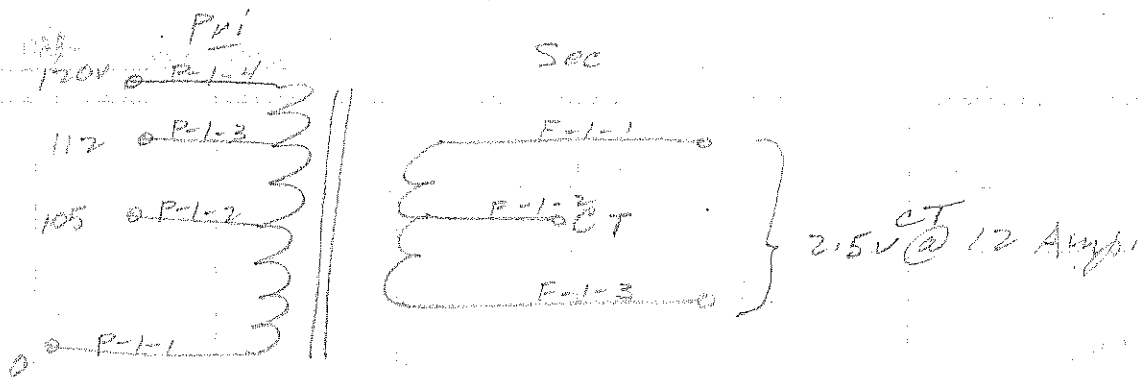
Cu = 800 - 885
 Fe = 68.5
 TPV = 5.5
 Wire Net = .425" (.436")

Sec. VA = 50
 Pri. VA = 40.1
 Pri. I = .362
 Efficiency = 85%
 COS φ = 90%



DESIGNED BY H. E. S., Jr.

DATE 7 - 26 - 41



105-112-120

$$\frac{N}{E} = 3.63$$

10,000 V. Insulation

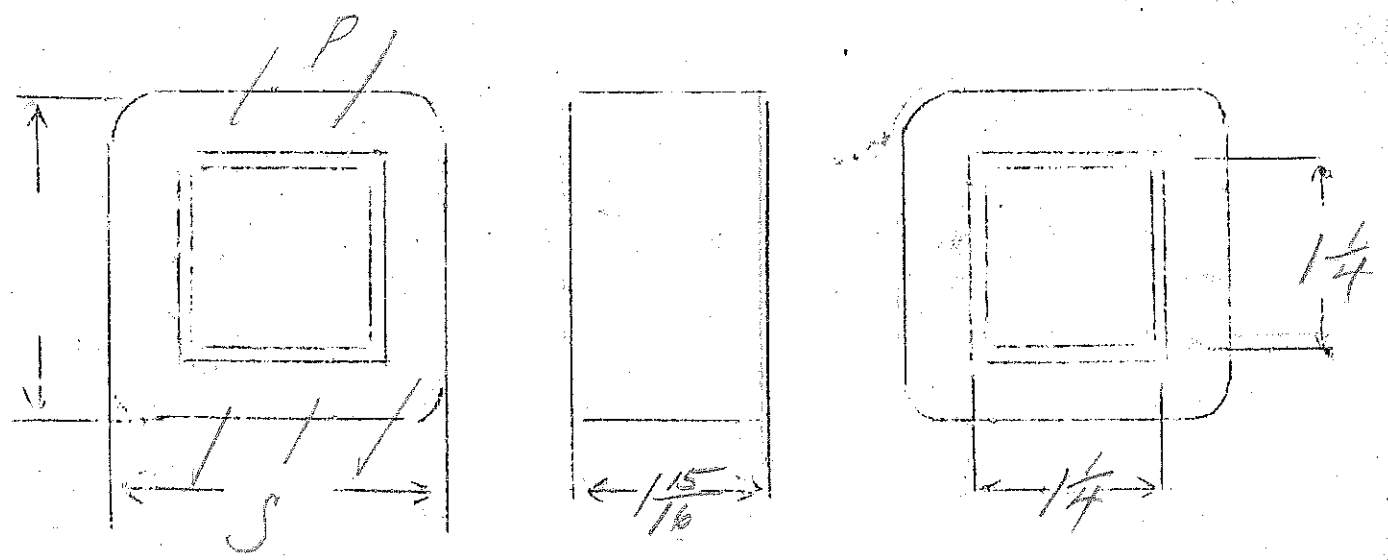
EF = 10 VOLT. - 10amps

$$B = 12,200$$

436
449
27
6

SPEC. NO. 721

Winding	PRI	SEC					
Turns	436	40					
Taps	387	20					
Wind. Lgth.	1.75						
Wire Size	#21	#13					
T.P.L.	53	-					
Kind Term.	wire	wire					
Term. Lgth.	6"	6"					
Layer Insul.	50#						
Wrapper	4L007VC 2L005GA	4L007VC 2L005GA					
TUBE	9L007 11L007VC		IMPREGNATION		VARNISH		
CURE	7/4 x 1 1/4						



Fri 105, 112, 120
 Fil 2.5VCT-20Amp
 10,000V Insulation

OLD

4.25"

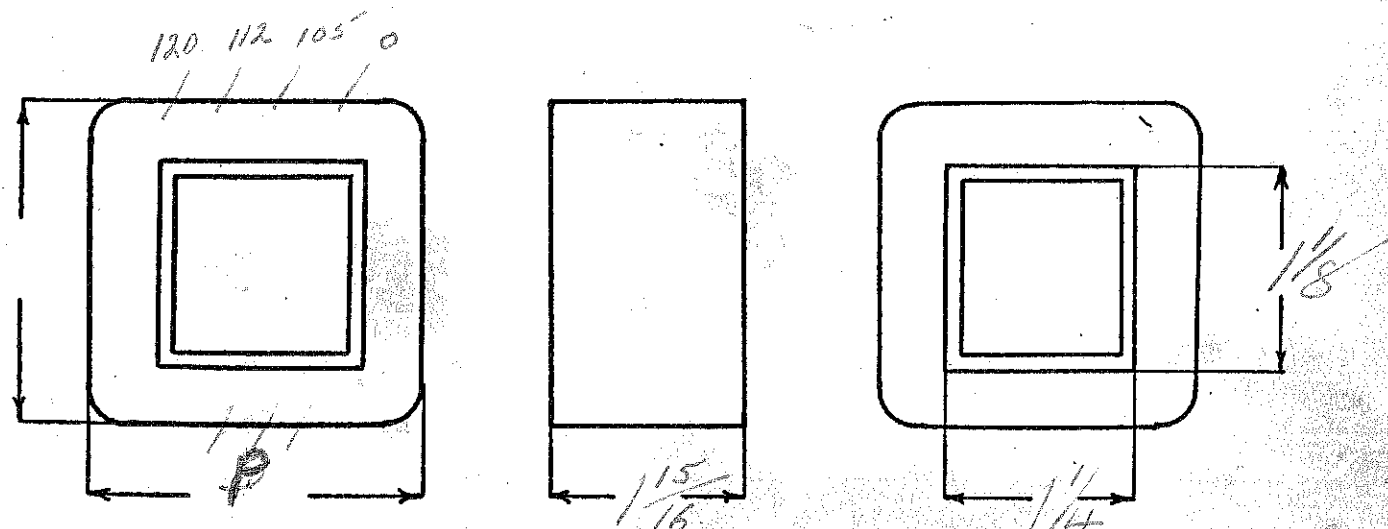
SPEC. NO. F 722

Winding	Fri	Fil				
Turns	510	120				
Taps	477	6				
Wind. Lgth.	1 3/4					
Wire Size	#24	#12	Wind two separate layers			
T. P. L.	77-		and parallel. Tap only one			
Finish			layer.			
Type Lead	Wire	Only				
Lead Lgth.	3"	3"				
Layer Insul.	50#	007K				
Test Volt.	2500	10000				
Wrapper	4L007VC 2L0076A	4L007VC 2L0076A				

TUBE 7L007GK IMPREGNATION Varnish

CORE 1/4 X 1/8 GA. 24 GRADE D STACK 2X2

MOUNTING J



DESIGNED BY G.W.

DATE 5-13-38

Primary - 110/120V

Filament - 7.5V CT @ 5A

SPEC. NO. F-724

Winding	Pri.		Sec. White			
Turns	600		42			
Taps	550		21			
Wind. Lgth.	1 1/2"		1 1/2"			
Wire Size	#25		#16			
T. P. L.	55 - 11L		22 - 2L			
Finish	94%		92.5%			
Type Lead	#20 Pr. Bri.		W.O. Sleeve			
Lead Lgth.	9"		9"			
Layer Insul.	40#		.007" GA			
Test Volt.	1250		2500			
Wrapper	2L .007" GA		2L .007" GA			

TUBE	CL - .007" GK	IMPREGNATION	VANWISE
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CORE	1" x 1 1/2" E & I	GA.	24	GRADE	D	STACK	2 x 2
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MOUNTING "A" *Note! Multi-Wind Prim. Single Sec.*

Cu = 700 - 517

Fe = 68 @ 60 Cycle

TPV = 5

Wire Net = .332" (.302")

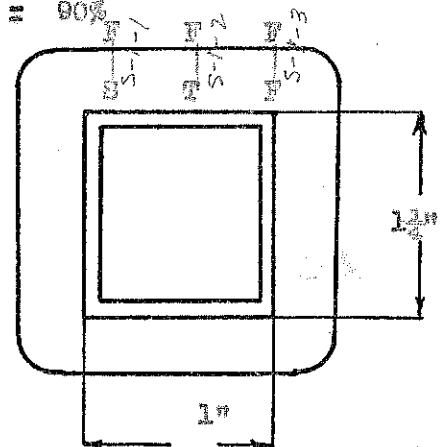
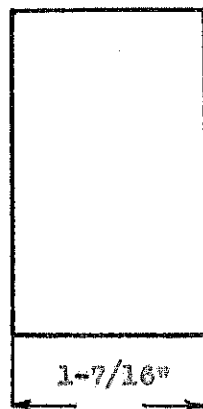
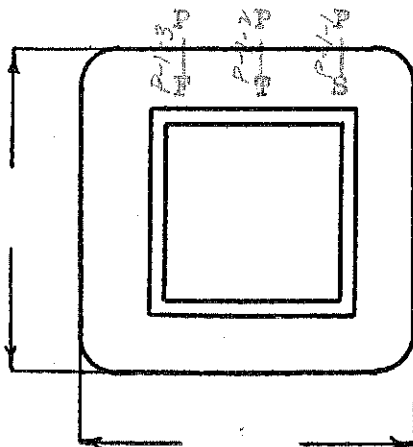
Sec. VA = 37.5

Pri. VA = 50.2

Pri. I = .456

Efficiency = 83%

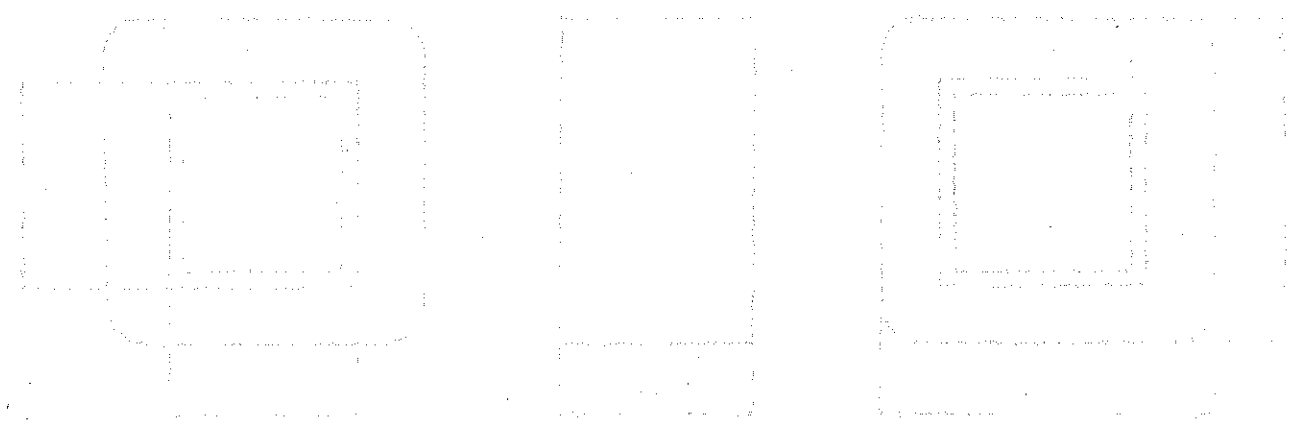
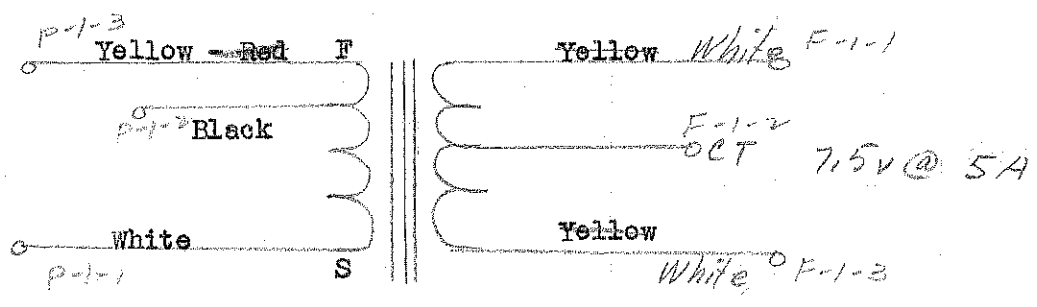
COS θ = 90%



DESIGNED BY H. E. S., Jr.

DATE 7-25-41

(1)

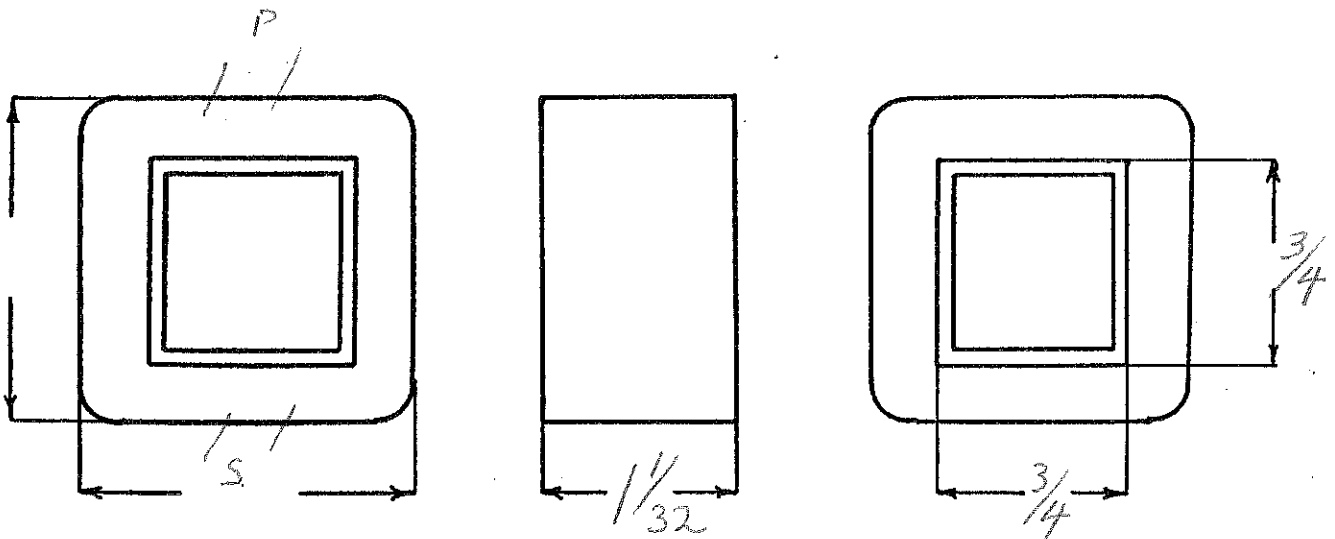


(1)

Ep-230V
 Ef-2.5VCT-4amp

SPEC. NO. F725-230V

Winding	Pri	Sec					
Turns	2400	30					
Taps		15					
Wind. Lgth.	7/8	7/8					
Wire Size	#34	#17					
T. P. L.	115-21						
Finish							
Type Lead	Ail. Br.	W. O.					
Lead Lgth.	3"	3"					
Layer Insul.	30#						
Test Volt.	1250 2500	2500 1250					
Wrapper	2L0056A	2L0056A					
TUBE	7L007 GK		IMPREGNATION		Double Varnish		
CORE	3/4 X 3/4	GA. 24	GRADE D		STACK 2X2		
MOUNTING	D						



DESIGNED BY G.K.

DATE 7-22-37

FILAMENT TRANSFORMER

120V Primary @ 60 Cycle
to 2.5V CT @ 4 Amp.

SPEC. NO. F-725-D

Winding	Primary	Secondary				
Turns	1200	30				
Taps	-	15				
Wind. Lgth.	7/8"	7/8"				
Wire Size	#31	#17				
T. P. L.	8L - 15L	16 - 2L				
Finish Pitch	90%	86%				
Type Lead	Sil. Br.	Wire Only				
Lead Lgth.	3"	3"				
Layer Insul.	50%G	1L .007" GA				
Test Volt.	1250V	2500V				
Wrapper	2L .005" GA	2L .005" GA				

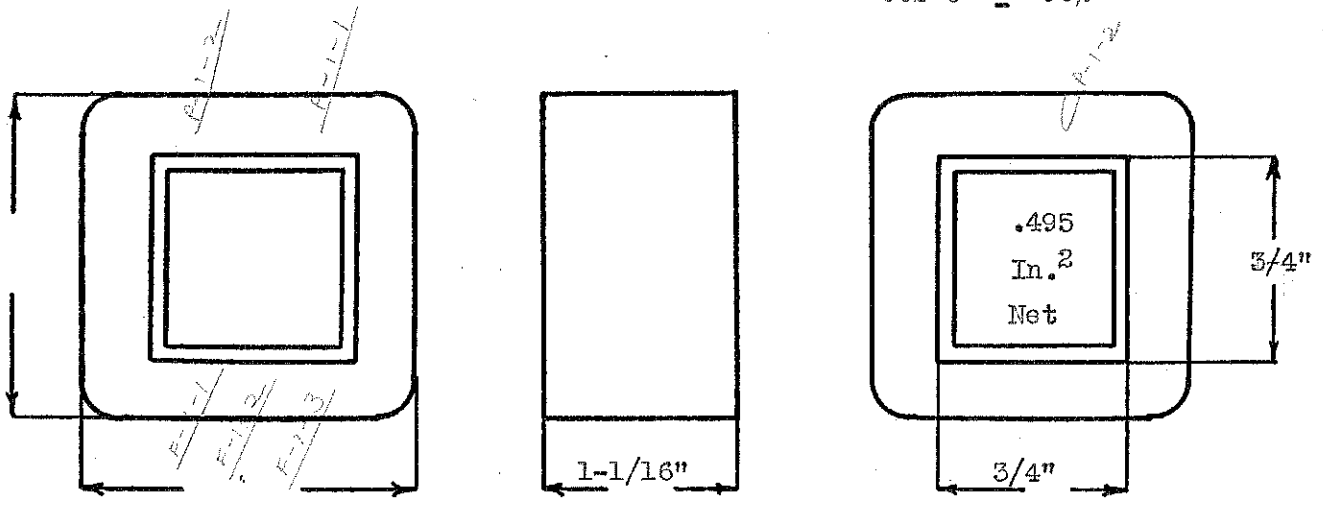
TUBE	5L - .007" GK	IMPREGNATION	VARNISH
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CORE 3/4" x 3/4" E & IGA. 24 GRADE D STACK 2 x 2

MOUNTING "D" - Lugs NOTE: Multi-Wind Primary
Single-Wind Secondary

Cu = 700 - 500
Fe = 74.7
TPV = 10
Wire Net = (.278") .272"

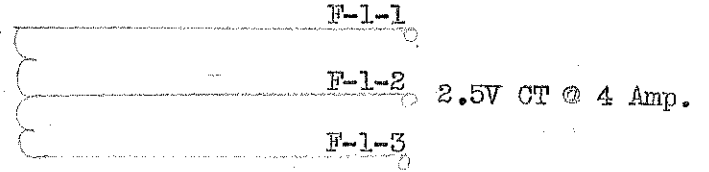
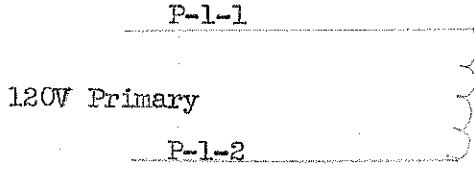
Sec. VA = 10
Pri. VA = 13.4
Pri. I = .112
Efficiency = 83%
COS θ = 90%



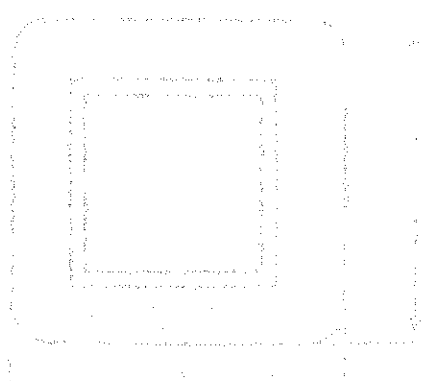
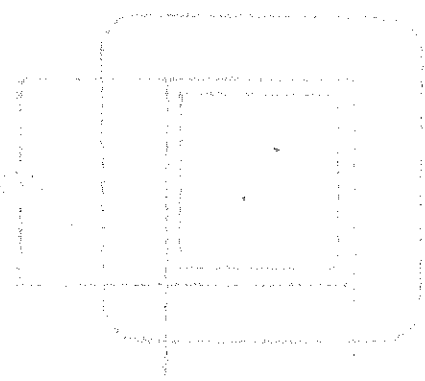
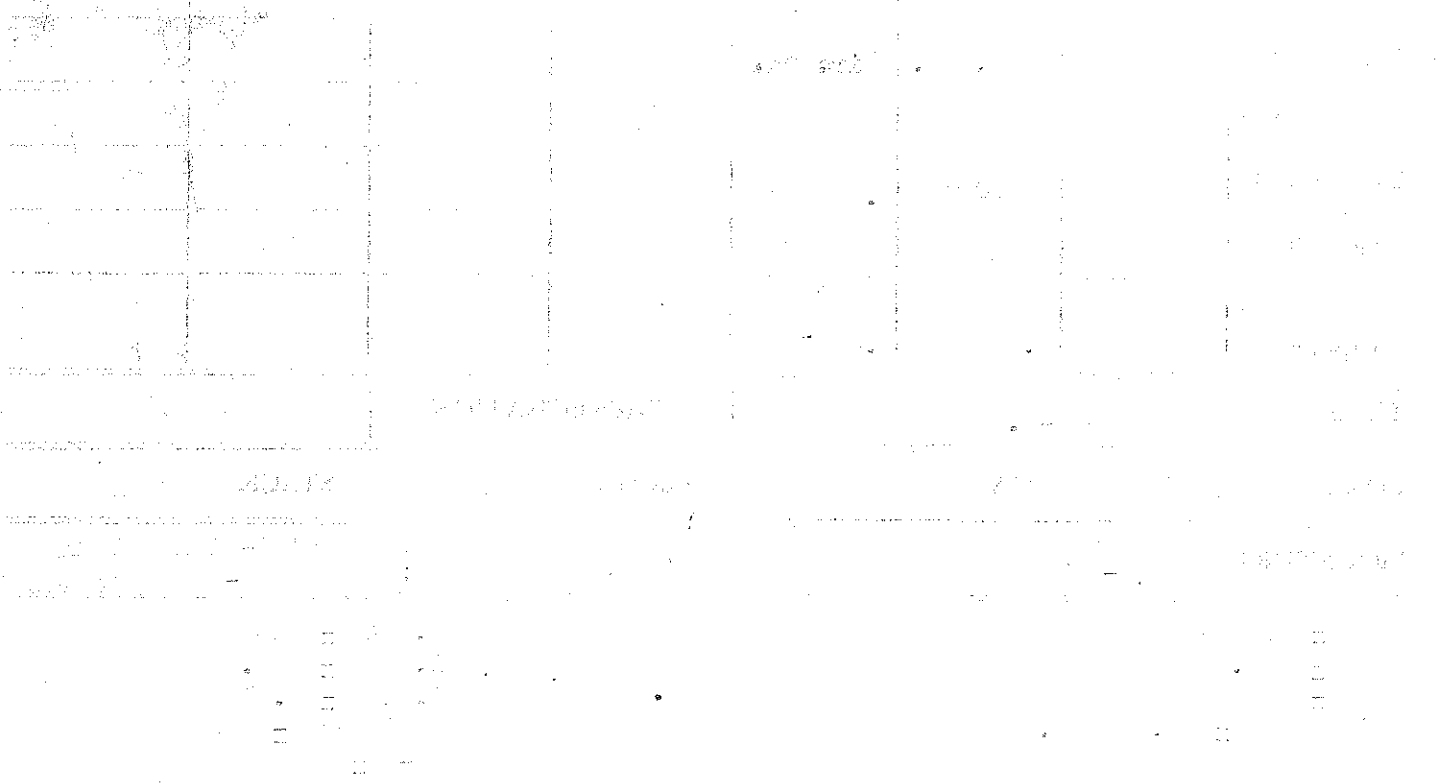
DESIGNED BY GW

DATE 7-22-41

#F-725-D



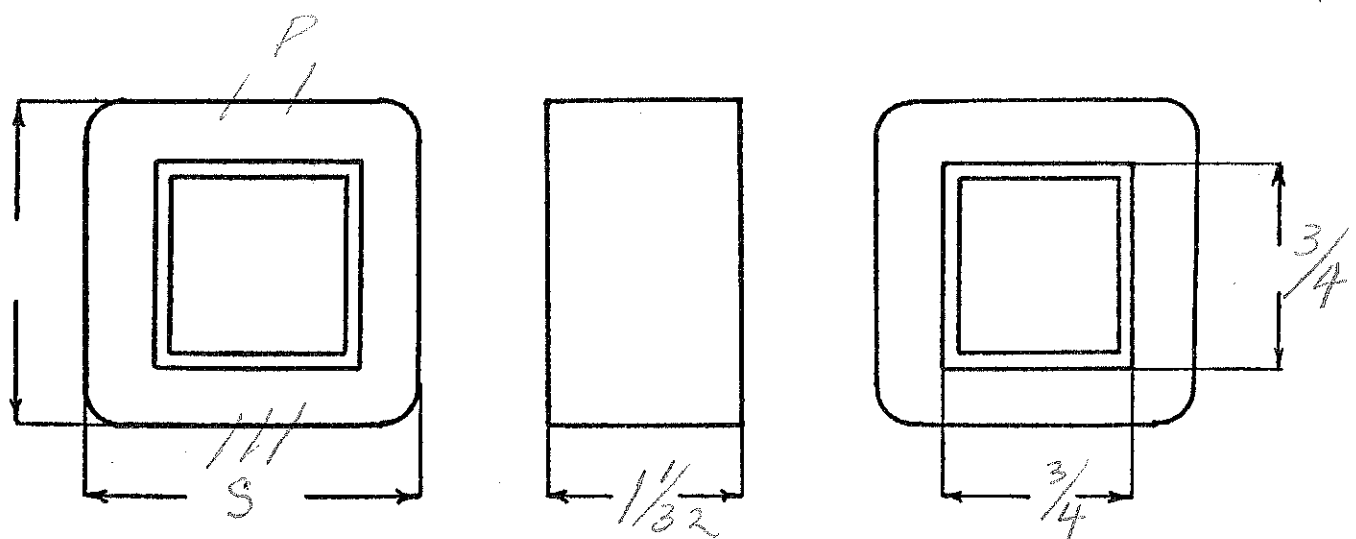
Oct 145-51 ma



$E_p - 230V$
 $E_f - 6.3VCT - 1.6Amp$

SPEC. NO. F-726-230V

Winding	Pri	Sec				
Turns	2400	72				
Taps		36				
Wind. Lgth.	$\frac{7}{8}$	$\frac{7}{8}$				
Wire Size	#34	#20				
T. P. L.	115-21					
Finish						
Type Lead	A/B ₁	W.O.				
Lead Lgth.	3"	3"				
Layer Insul.	30#					
Test Volt.	1250	2500				
Wrapper	2L005GA	2L005GA				
TUBE	5L007GK #		IMPREGNATION		Double Varnish	
CORE	$\frac{3}{4} \times \frac{3}{4}$	GA. 24	GRADE D		STACK 2x2	
MOUNTING	D					



DESIGNED BY G.W.

DATE 7-22-37

Filament Transformer

8157

120V Primary @ 60 Cycle
to
6.3V Filament CT @ 1.6 Amp.

SPEC. NO. F-726

Winding		Primary		Secondary			
Turns		1020		60	12 ¹⁰		
Taps		-	CT	30			
Wind. Lgth.		7/8"		7/8"	0.875"		
Wire Size		#31		#20			
T. P. L.		79 - 13L		22 - 3L			
Finish Pitch		87%		84%			
Type Lead		Sil. Br.		W. O.			
Lead Lgth.		3"		3"			
Layer Insul.		1L 30#G		1L .005" GA			
Test Volt.		1250V		2500V.			
Wrapper		1L 005 VC 2L 005 GA		2L .005" GA			

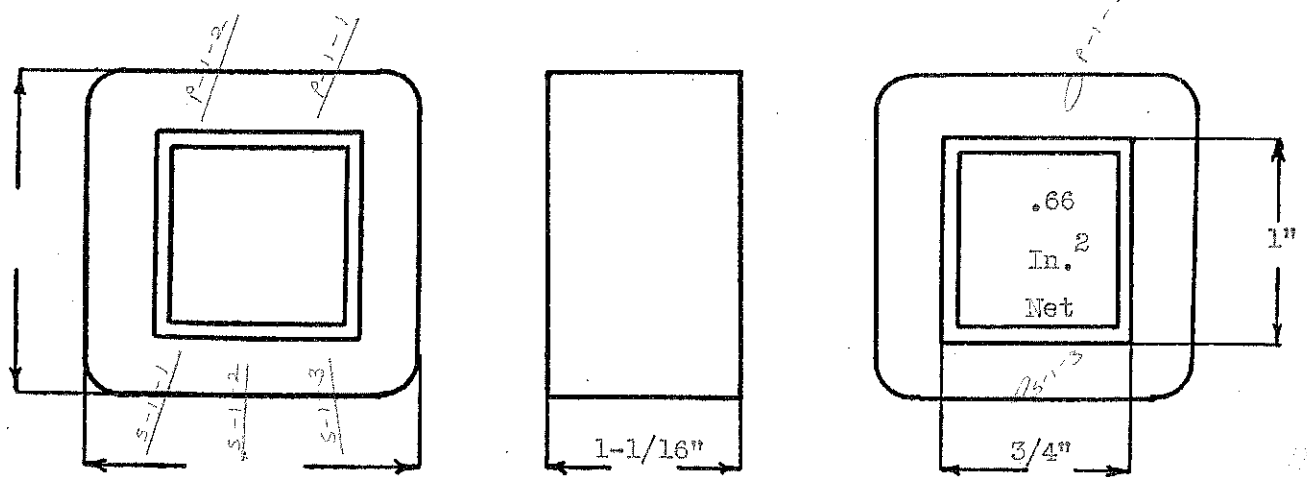
TUBE	5L - .007" GK	IMPREGNATION	VARNISH
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CORE 3/4" x 1" E & I GA.	24	GRADE D	STACK 2 x 2
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MOUNTING "D" - Lugs
NOTE: Multiple-Wind Primary
Single-Wind Secondary

Fe = 66.8 @ 60 Cycle
Cu = 705 - 640
TPW = 8.5
Wire Net = 0.262" (0.254")

Sec. VA = 10.1
Pri. VA = 13.5
Pri. I = 0.113
Efficiency = 83%
COS θ = 90%



DESIGNED BY HWS

DATE 5-19-42

FILAMENT

107-115-122 volts @ 50/60 cycles

5.1 volts CT @ 13 Amps

SPEC. NO. F727

Winding	1-2-3-4 Pri.	5-6-7 Sec.			
Turns	655	32			
Taps	574-617	16			
Wind. Lgth.	1 7/16	1 7/16			
Wire Size	#24	Double #15			
T. P. L.	61-12L	11-3L			
Finish	90%	90%			
Type Lead	W.O.	W.O.			
Lead Lgth.	3"	3"			
Layer Insul.	50#	1L007GA			
Test Volt.	1250	2500			
Wrapper	3L007GK	3L007GA			

TUBE	7L007GK	IMPREGNATION	Varnish
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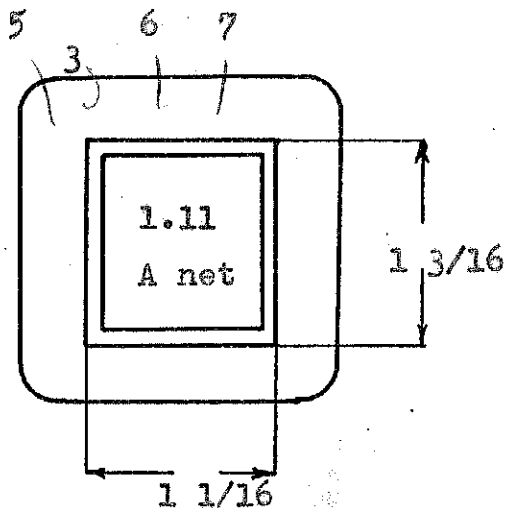
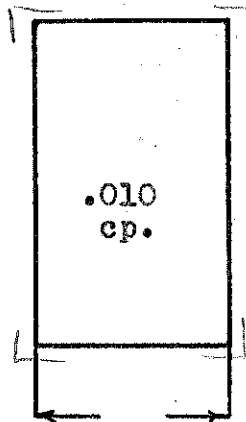
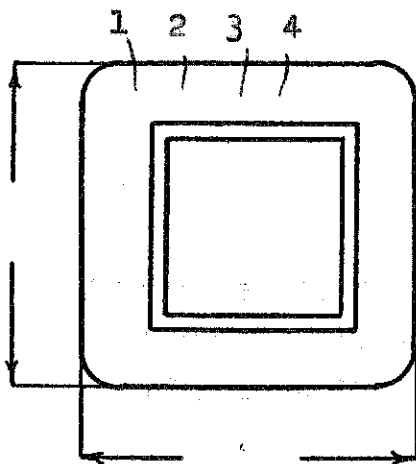
CORE 1 1/16 x 1 3/16 GA. 24 GRADE D STACK 2 x 2

MOUNTING B - Lugs - Primary Lugs to Right

Use Super Lugs

$TPV = 5.35$

Window - $.584 / .658 = 89\%$



DESIGNED BY

S. W. B.

DATE

DESIGN AND TEST DATA

Rating:

Sec. VA = 61.2
 Pri. VA = 85.0
 Pri. I = 795 Ma.

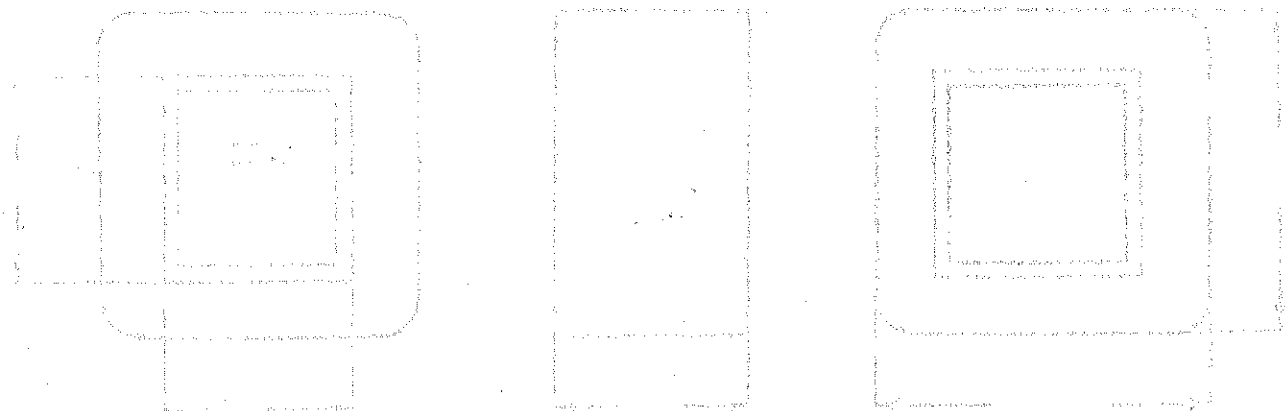
Winding		Pri.		Sec.			
Mean Turn		5.92		7.97			
Resistance 25° c		8.48		.0362			
Pounds Copper		.402		.445			
Copper Density		500 max.		500			
Ratio Volts	107-115 122			5.17			
Test to Ground	1250			2500			

Iron Induction 11.7 kg. @ 50 Cycles

Exciting Current 90 Ma. amperes @ 115 volts 60 cycles on 1-3

Induced Test: Apply 115 Volts at 50 Cycles on 1-3 with grounded

Remarks:



Primary - 110/120V @ 60 Cycle

Filament - 5.1V CT - 12 Amp.

SPEC. NO. E-727

Winding	Pri.		Sec.			
Turns	665		28			
Taps	617		14			
Wind. Lgth.	1-15/32"		1-15/32"			
Wire Size	#23		B - #14			
T. P. L.	55 - 11L		10 - 3L			
Finish Pitch	89.5%		90%			
Type Lead	#20 Pr. Dr.		W.O.			
Lead Lgth.	9"		9"			
Layer Insul.	80#G		.007"			
Test Volt.	1550		2500V			
Wrapper	1L .007 VC 1L .005 GA		2L .005" GA			

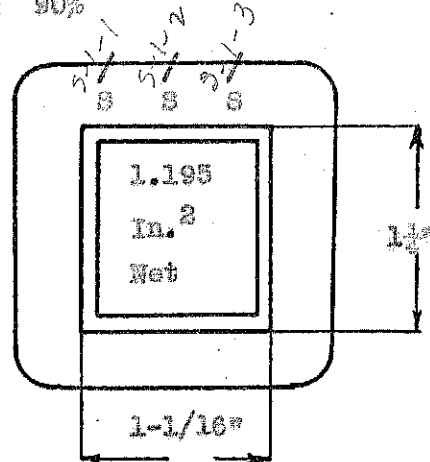
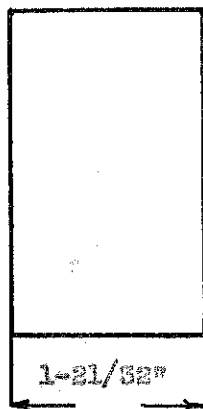
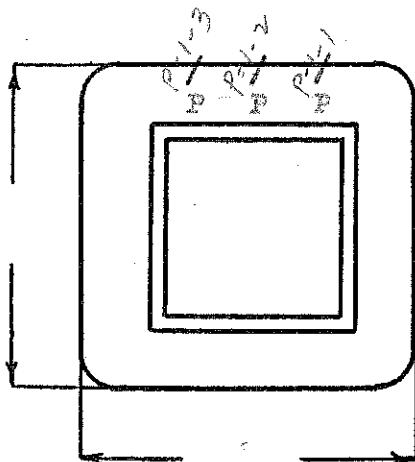
TUBE 7L - 007" G-K IMPREGNATION Varnish

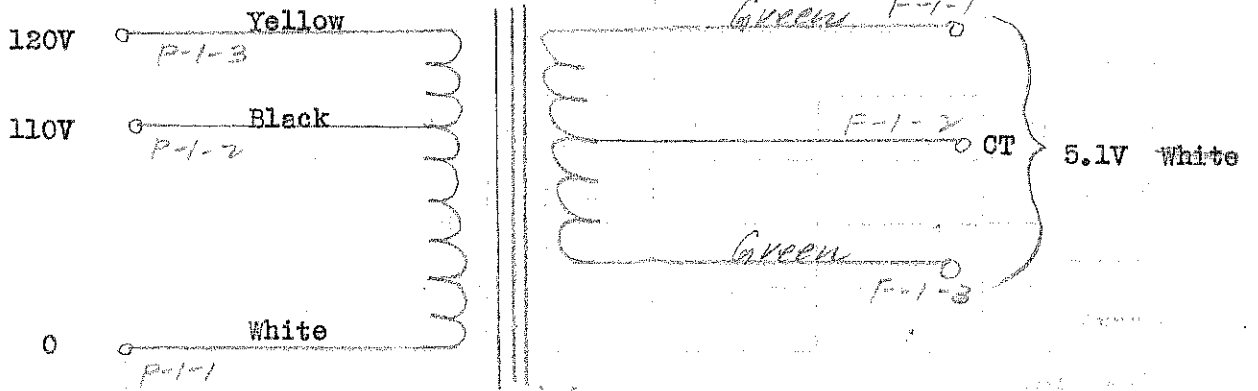
CORE 1-1/16" x 1 1/2" HI GA. 24 GRADE D STACK 2 x 2

MOUNTING "A" or "B" *Note: Multi-Wind Prim. Single x See.*

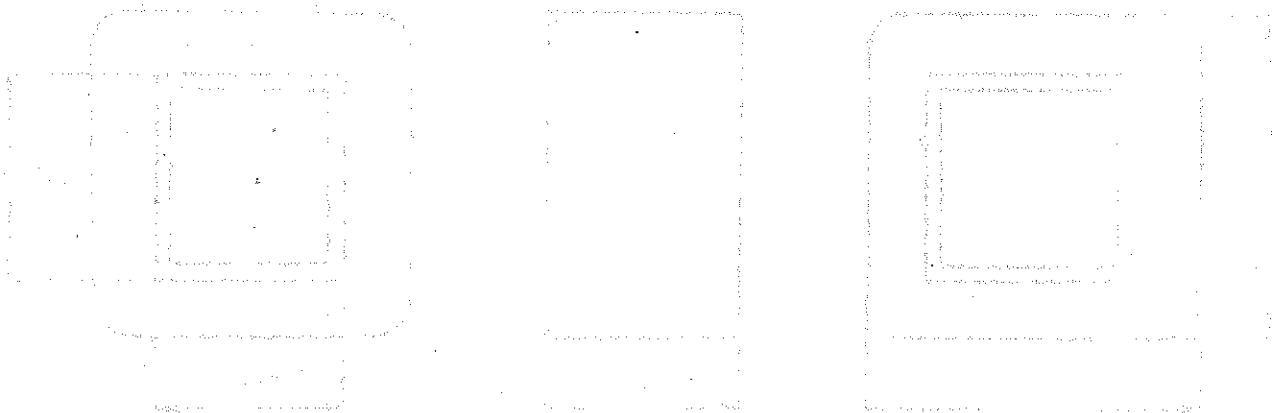
Cu = 685 - 685
Fe = 66.7 @ 60 Cycle
TPV = 4.7
Wire Net = .5005" (.507")

Sec. VA = 61.2
Pri. VA = 82
Pri. I = .745
Efficiency = 83%
COS φ = 90%





REVISIONS



FILAMENT

107-115-122 volts @ 50/60 cycles

5.1 volts CT @ 13 Amps

SPEC. NO. **F727**

Winding	1-2-3-4 Pri.	5-6-7 Sec.				
Turns	655	32				
Taps	574-617	.16				
Wind. Lgth.	1 7/16	1 7/16				
Wire Size	#24	Double #15				
T. P. L.	61-12L	11-3L				
Finish	90%	90%				
Type Lead	W.O.	W.O.				
Lead Lgth.	3"	3"				
Layer Insul.	50#	1L007GA				
Test Volt.	1250	2500				
Wrapper	3L007GA	3L007GA				

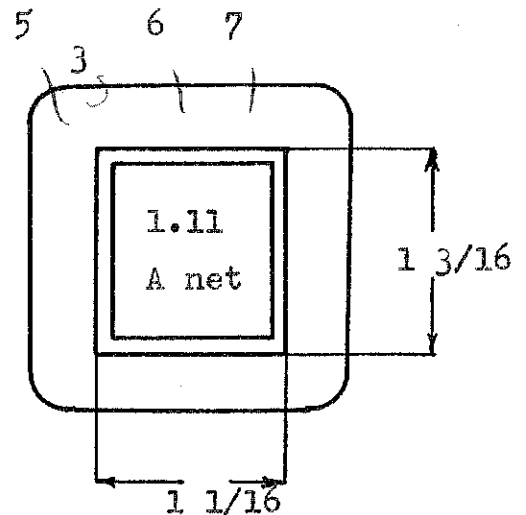
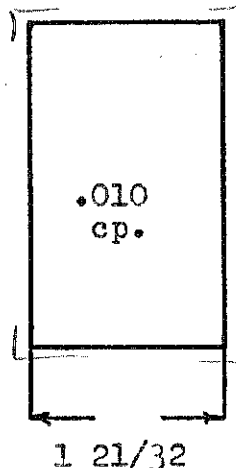
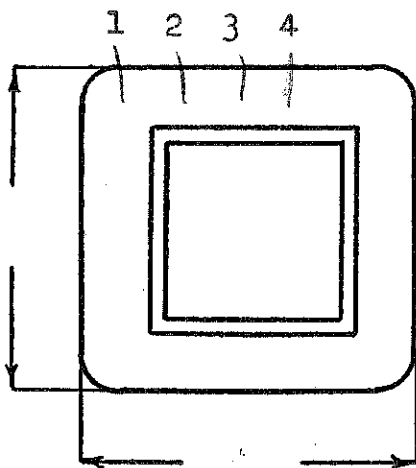
TUBE	7L007GK	IMPREGNATION	Varnish
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CORE 1 1/16 x 1 3/16 GA. 24 GRADE D STACK 2 x 2

MOUNTING A - Lugs - Primary Lugs to Right

~~Use Super Lugs~~

T. P. V. - 5.35
 Window - .584 / .656 = 89%



DESIGNED BY

S. W. B.

DATE

DESIGN AND TEST DATA

Rating:

Sec. VA = 61.2
 Pri. VA = 85.0
 Pri. I = 795 Ma.

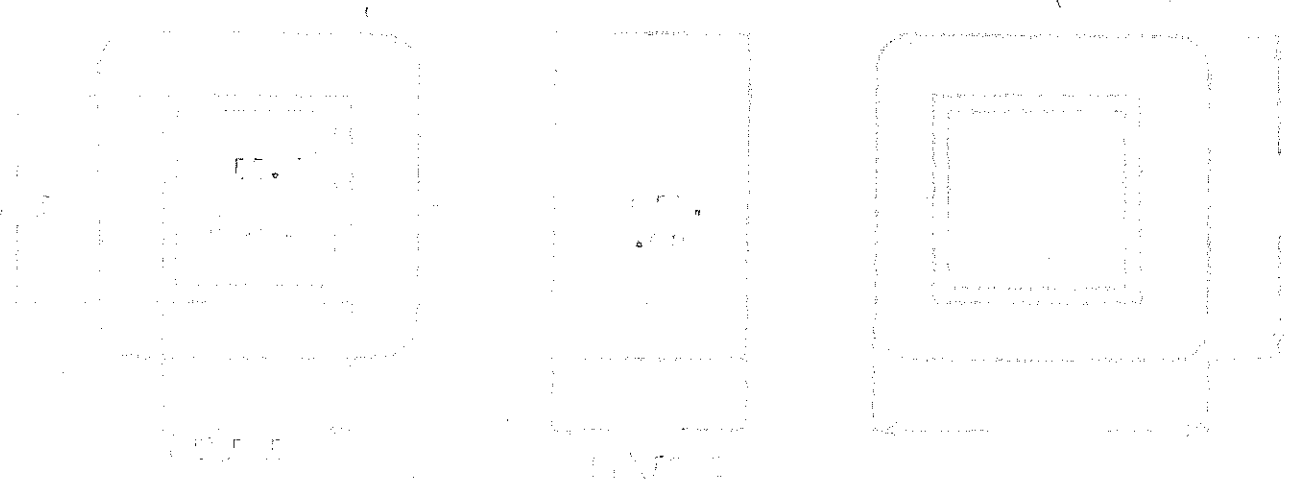
Winding		Pri.		Sec.			
Mean Turn		5.92		7.97			
Resistance 25° c		8.48		.0362			
Pounds Copper		.402		.445			
Copper Density		500 max.		500			
Ratio Volts	107-115 122			5.17			
Test to Ground	1250			2500			

Iron Induction 11.7 kg. @ 50 Cycles

Exciting Current 90 Ma. amperes @ 115 volts 60 cycles on 1-3

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

Remarks:



Ep - 110 V. - 120 V.
 Bp - 5 V.C.T. - 20 A. - 2500 V. Ins.

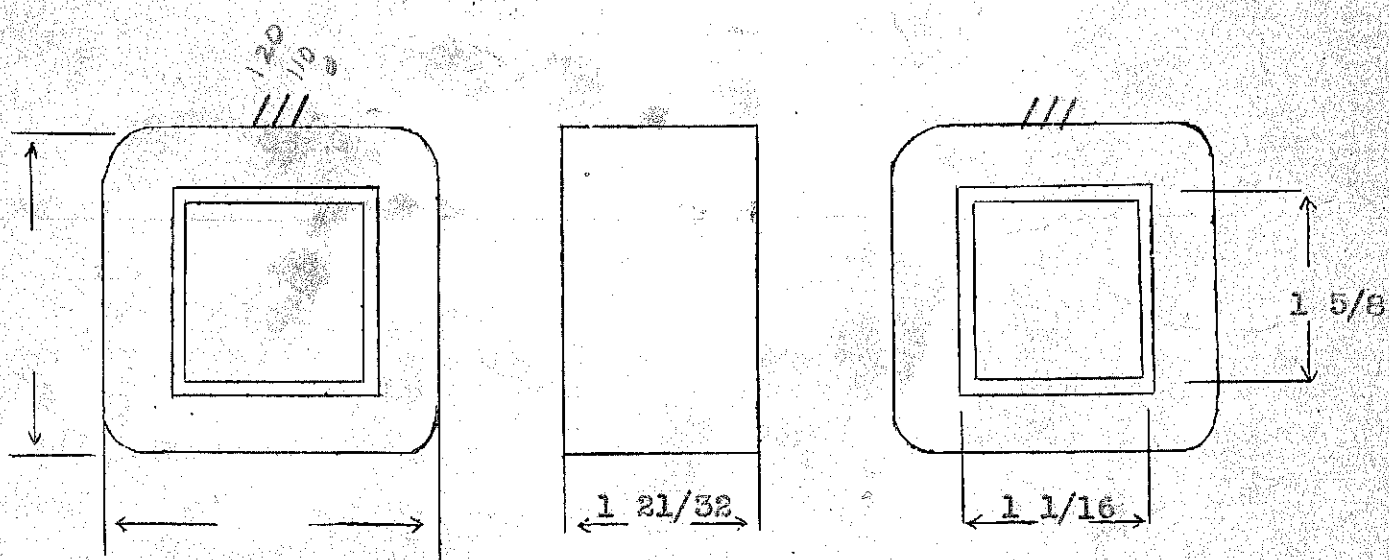
5.1

06.17

SPEC. NO. 7723

Winding	PRI.	F ₁				
Turns	408	20				
Taps	375	10				
Wind. Lgth.	1 15/32					
Wire Size	#22	#10				
T.P.L.	50-9	2 L				
Kind Term.	#20 P.Br. or W. O.	W. O.				
Term. Lgth.	9" or 3"	9" or 3"				
Layer Insul.	50#					
Test Volt.		2500				
Wrapper	3L005GA	3L005GA				

TUBE	7L007	IMPREGNATION	VARNISH
CORE	1 1/16 x 1 5/8	PRIMARY V.A.	
MOUNTING	A or B		



DESIGNED BY G. W.

DATE

FILAMENT

STOCK

107-115-122 volts @ 50/60 cycles

5.1 volts CT @ 20 Amps

SPEC. NO. F728

Winding	1-2-3-4 Pri.	5-6-7 Sec.				
Turns	390	18 x 2				
Taps	341-367	9 (outer layer only)				
Wind. Lgth.	1 7/16	1 7/16				
Wire Size	#21	Double #13	wind 1 strand of of #13 per layer			
T. P. L.	43-10L	18-2L	and parallel at lugs			
Finish	89%	91%				
Type Lead	W.O.	W.O.				
Lead Lgth.	3"	3"				
Layer Insul.	50#	1L010CP				
Test Volt.	1500	2500				
Wrapper	3L007GA	3L007GA				

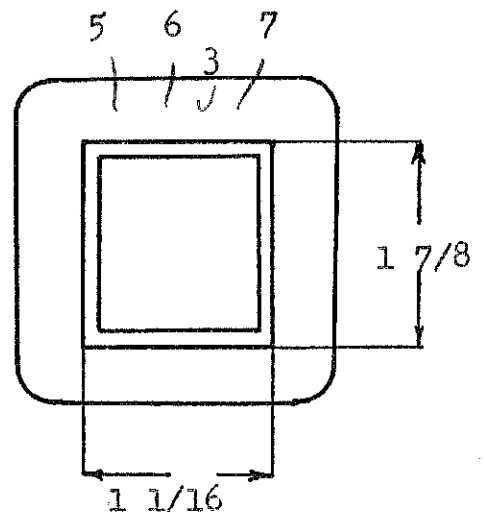
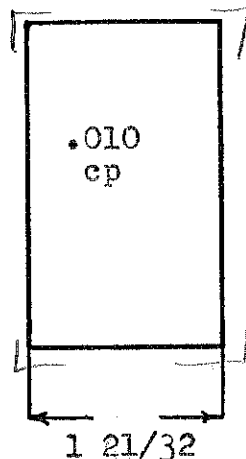
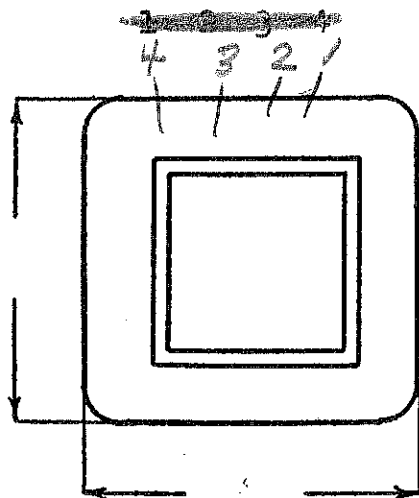
TUBE	9L007GK	IMPREGNATION	Varnish
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CORE 1 1/16 x 1 7/8 GA. 24 GRADE D STACK 2 x 2

MOUNTING B - Lugs - Primary Lugs to Right

Use Super Lugs

T.P.V. - 3.2
window - .603 / .656 = 91.8%



DESIGNED BY S. W. B

DATE

DESIGN AND TEST DATA

Rating:

Sec. VA = 102
 Pri. VA = 141.6
 Pri. I = 1.324 Amps max.

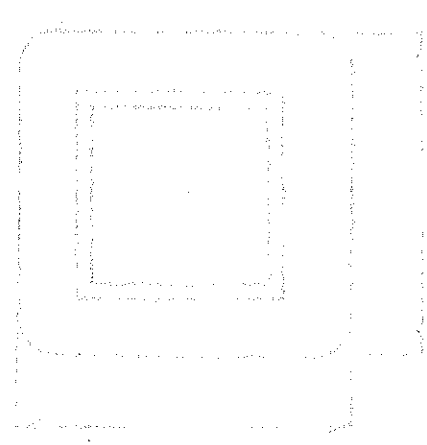
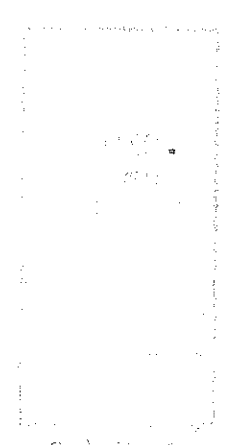
Winding	Pri.	Sec.		
Mean Turn	7.55	9.60		
Resistance 25° c	3.21	.0159		
Pounds Copper	.610	.491		
Copper Density	612	518		
Ratio Volts	107-115 122	5.13 @	107 volts	
Test to Ground	1500	2500		

Iron Induction 12.4 kg @ 50 Cycles

Exciting Current 175 milli amperes @ 115 volts 60 cycles on 1-

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

Remarks:



FILAMENT

STOCK

107-115-122 volts @ 50/60 cycles

5.1 volts CT @ 20 Amps

SPEC. NO. F728

Winding	1-2-3-4 Pri.	5-6-7 Sec.				
Turns	390	18 x 2				
Taps	341-367	9 (outer layer only)				
Wind. Lgth.	1 7/16	1 7/16				
Wire Size	#21	Double #13	wind 1 strand of of #13 per layer			
T. P. L.	43-10L	18-2L	and parallel at lugs			
Finish	89%	91%				
Type Lead	W.O.	W.O.				
Lead Lgth.	3"	3"				
Layer Insul.	50#	1L010CP				
Test Volt.	1500	2500				
Wrapper	3L007GA	3L007GA				

TUBE 9L007GK IMPREGNATION Varnish

CORE 1 1/16 x 1 7/8 GA. 24 GRADE D STACK 2 x 2

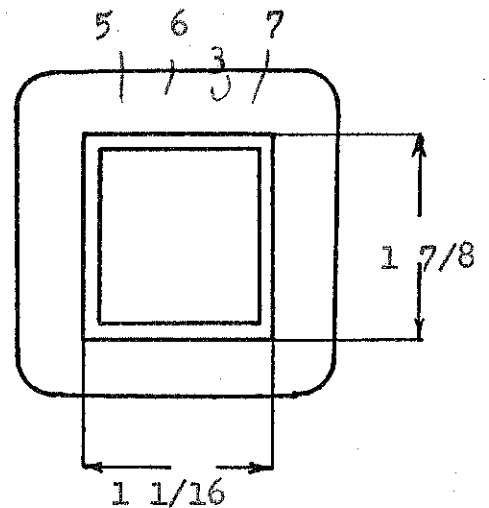
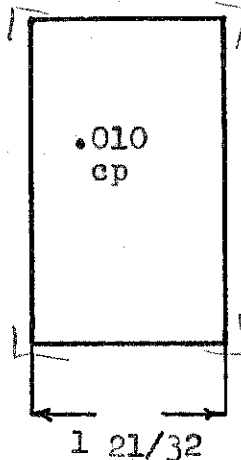
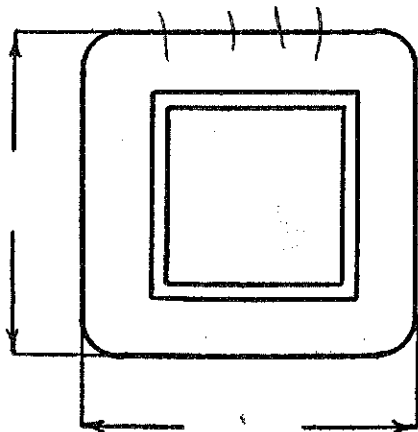
MOUNTING ~~A B - Lugs~~ *Primary lugs to right*

Use Super Lugs

TPV - 3.2

Windows - .603 / .656 = 91.8%

1 2 3 4



DESIGNED BY

S. W. B.

DATE

DESIGN AND TEST DATA

Rating:

Sec. VA = 102

Pri. VA = 141.6

Pri. I = 1.324 Amps max.

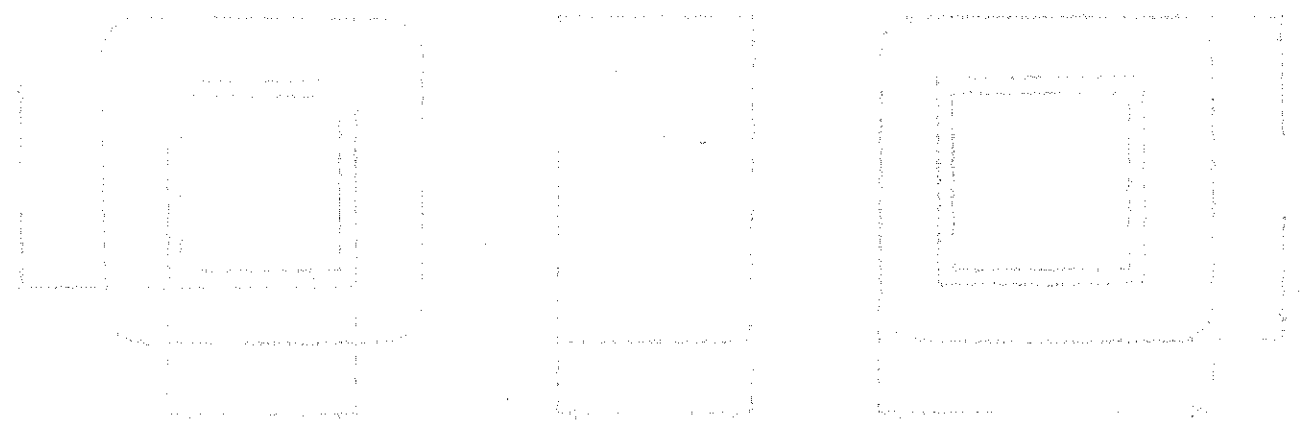
Winding	Pri.	Sec.			
Mean Turn	7.55	9.60			
Resistance 25° c	3.21	.0159			
Pounds Copper	.610	.491			
Copper Density	612	518			
Ratio Volts	107-115 122	5.13 @	107 volts		
Test to Ground	1500	2500			

Iron Induction 12.4 kg @ 50 Cycles

Exciting Current 175 milli amperes @ 115 volts 60 cycles on 1-

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

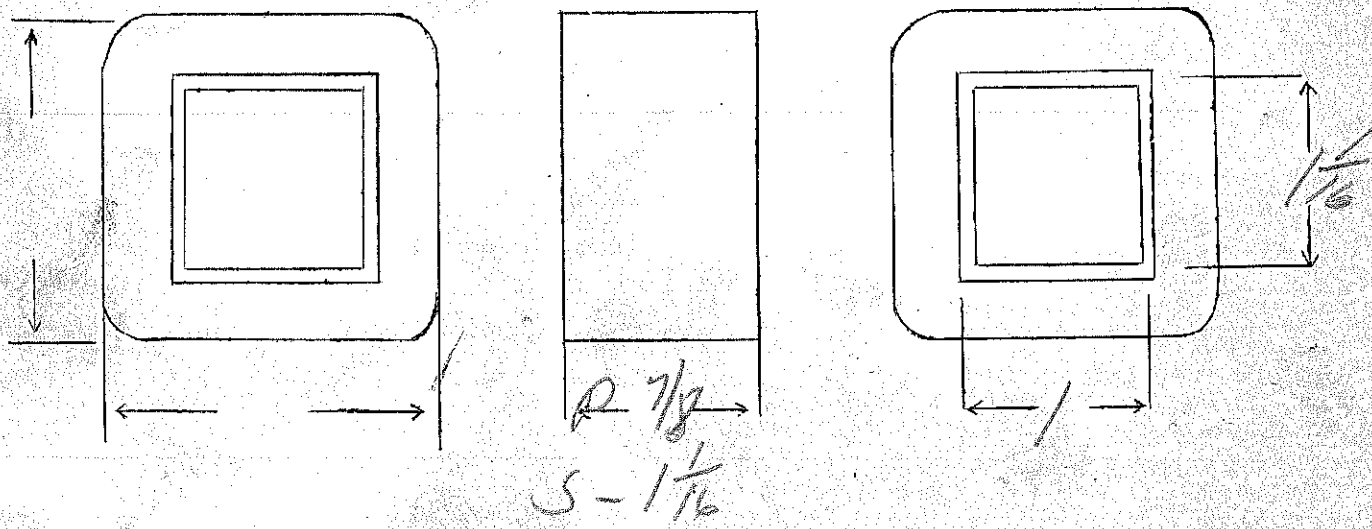
Remarks:



Ep-115
 ES-3500V-10MA.

Jefferson
 SPEC. NO. 729-475C

Winding	PRI	SEC				
Turns	550	20000				
Taps	—	—				
Wind. Lgth.	5/8	13/16				
Wire Size	#24	#41				
T.P.L.	28	230				
Kind Term.	W.O.	Sil Cr	Start lead in coil			
Term. Lgth.	3	3"				
Layer Insul.	50#					
Test Volt.						
Wrapper	21015GA	31007VC 21003BA				
TUBE	7L007 (+ 21007VC on sec)		IMPREGNATION	Varnish		
CORE			PRIMARY V.A.	75		
MOUNTING	special Jefferson case		2 X 2			



DESIGNED BY _____ DATE _____

Primary - 110/120V - 60 Cycle

Secondary - 7.5V CT @ 7.5 A

SPEC. NO. I-729

Winding	Pri.		Sec.			
Turns	600		42			
Taps	550		2L			
Wind. Lgth.	1-15/32"		1-15/32"			
Wire Size	#23		D-#16			
T. P. L.	55 - 11L		12 - 4L			
Finish	89.6%		88%			
Type Lead	#80 Pr. Br.		W.O.			
Lead Lgth.	9"		9"			
Layer Insul.	50%		.007" K			
Test Volt.	1250		2500			
Wrapper	1L .007" VC 2L .005" GA		2L .007" GA			

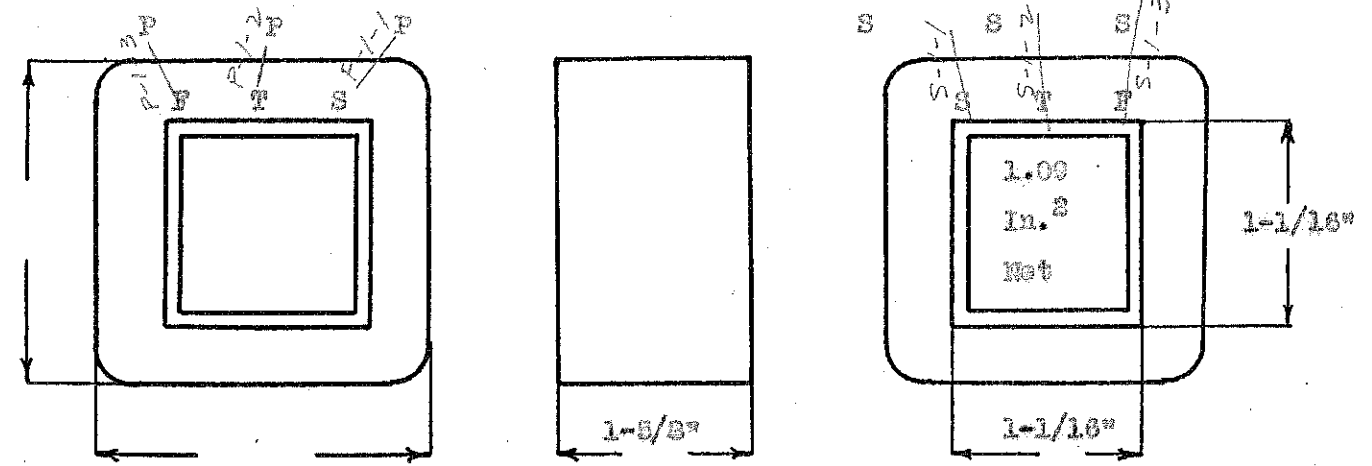
TUBE 7L - .007" GK IMPREGNATION VARNISH

CORE 1-1/16" x 1-1/16" GA. EI 24 GRADE D STACK 2 x 2

MOUNTING "A" or "B" *Multi-Wind Prim. Note! Single - v Sec.*

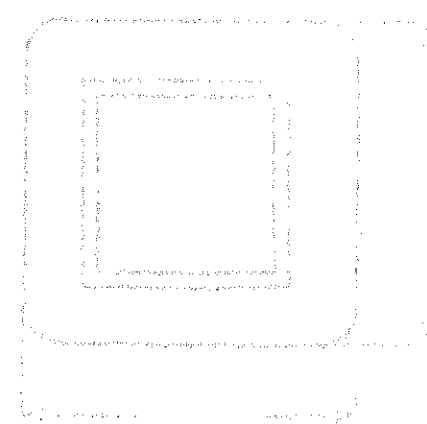
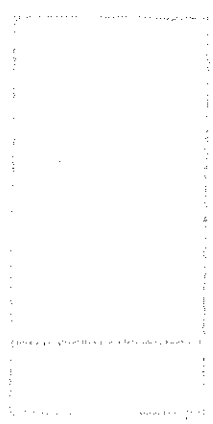
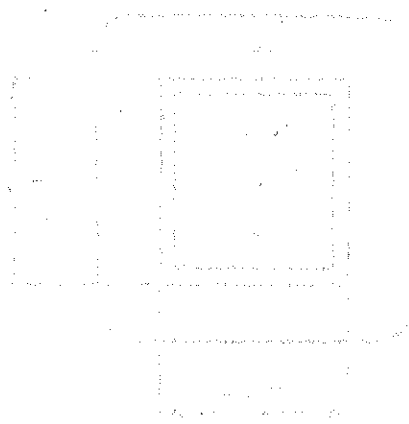
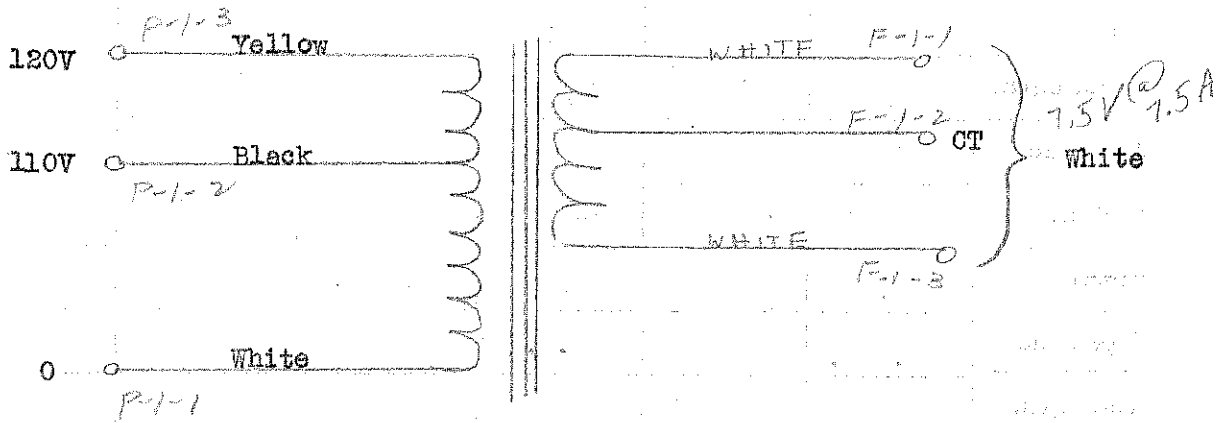
Cu = 745 - 690
Fe = 69 @ 60 Cycle
TFV = 5
Wire Net = .482" (.489")

Sec. VA = 56.2
Pri. VA = 75.5
Pri. I = .694
Efficiency = 83%
COS θ = 90%



ReDESIGNED BY H. E. S., Jr.

DATE 7 - 25 - 41



Primary - 110/120V - 60 Cycle

Filament - 10V CT - 8 Amp.

SPEC. NO. 3-750

Winding	Pri.		Fl.			
Turns	432		40			
Taps	306		20			
Wind. Lgth.	1-15/32"		1-15/32"			
Wire Size	#28		#13			
T. P. L.	50 - 9L		17 - 3L			
Finish	91%		86%			
Type Lead	#30 Pr. Dr.		W.O.			
Lead Lgth.	0"		0"			
Layer Insul.	40%		.007" K			
Test Volt.	1250		2500			
Wrapper	#2L .007" GA		#2L .007" GA			

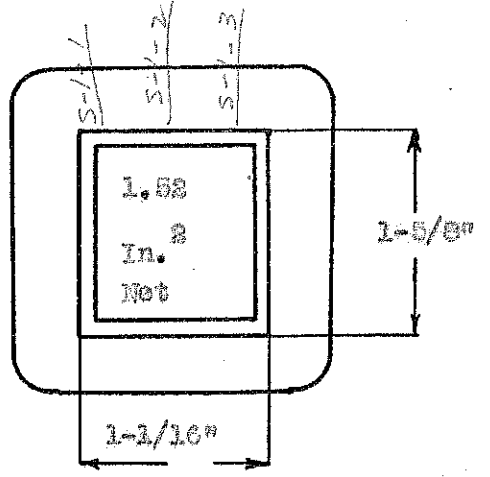
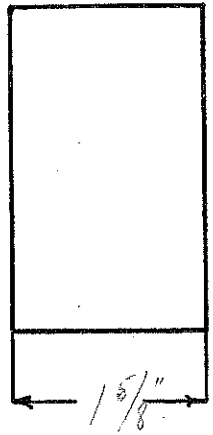
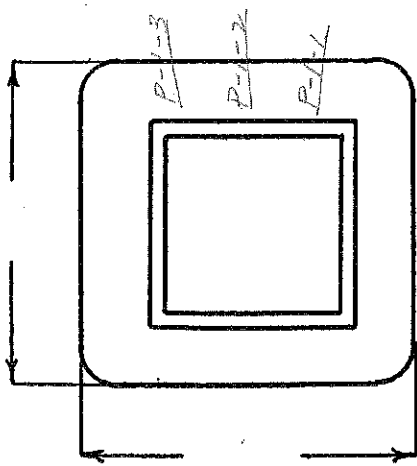
TUBE	GL - .007" GK	IMPREGNATION	VARNISH
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CORE	1-1/16 x 1-5/8 HI GA.	24	GRADE	D	STACK	2 x 2
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MOUNTING "A" *Note: Multi-Wind Prim. Single - v Sec.*

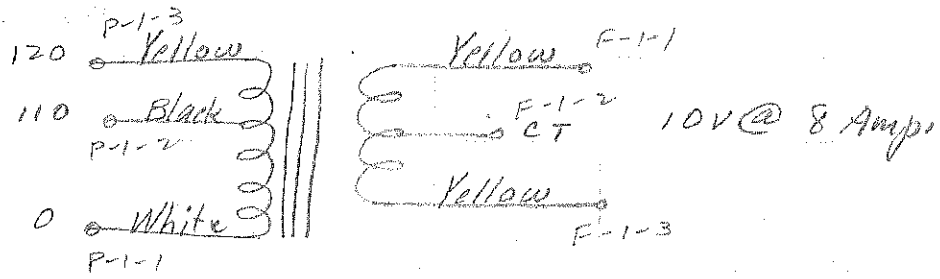
Cu = 659 - 648
 Fe = 63.5 @ 60 Cycle
 TFF = 3.6
 Wire Net = .501" (.500")

Sec. VA = 80
 Pri. VA = 107
 Pri. I = .975
 Efficiency = 83%

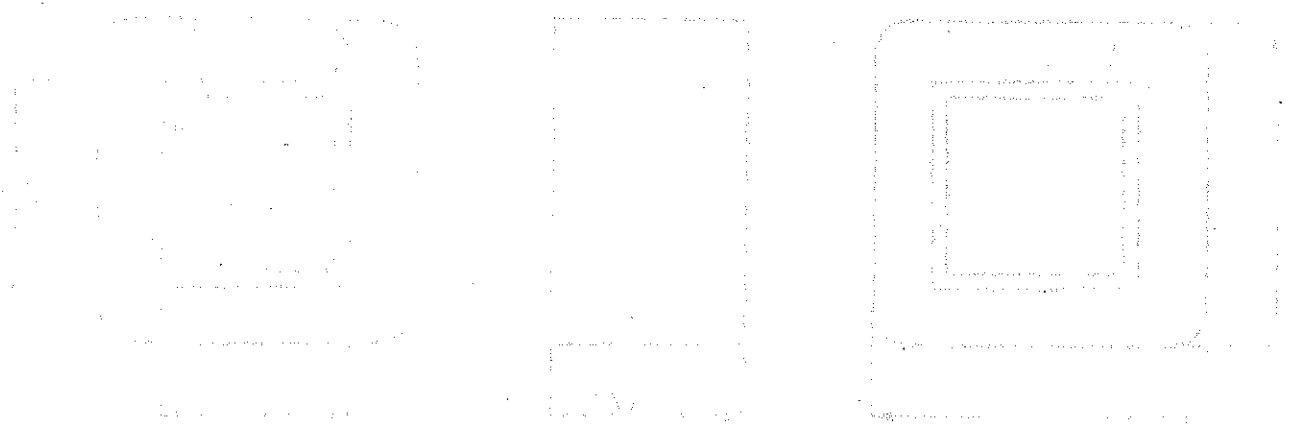


DESIGNED BY H. W. S.

DATE



TRANSFORMER



Ep - 110 V. - 120 V.
 Ef - 11 V.C.T. - 10 A. - 2500 V. Ins.

OLD

3.70

SPEC. NO. F731

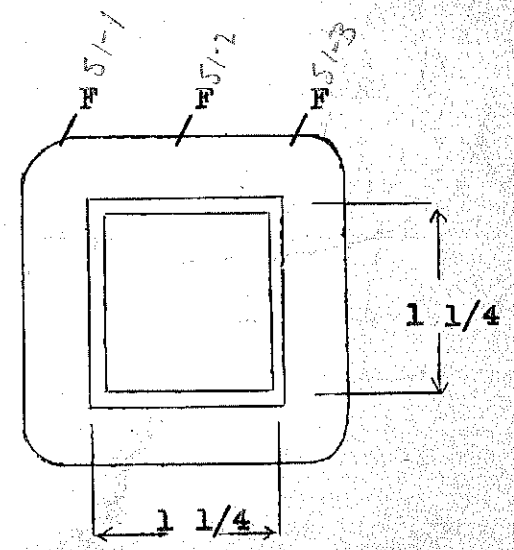
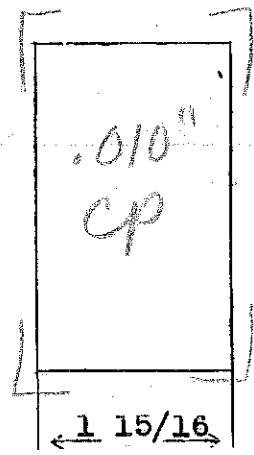
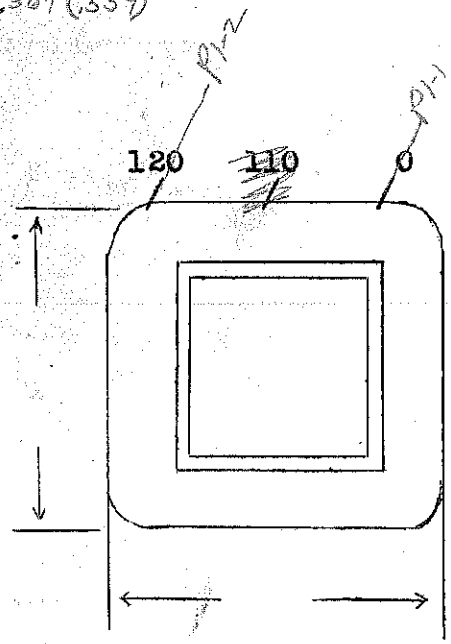
TO #8377

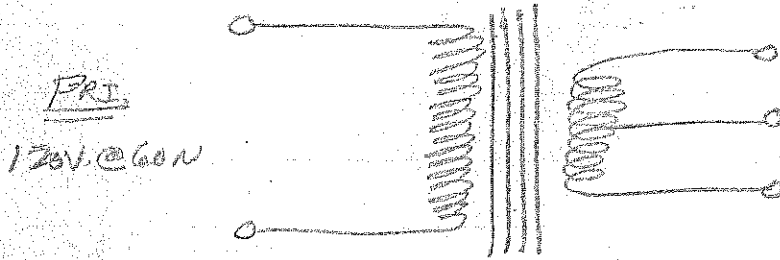
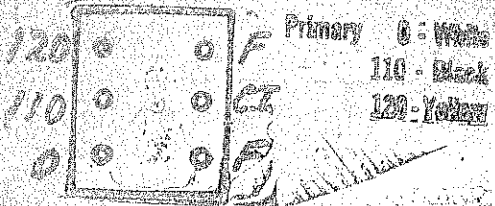
Winding	PRI.	<i>White</i> f1					
Turns	444 <i>475</i>	45 <i>49</i>					<i>7</i> 6 <i>altered</i>
Taps	408	22 <i>24</i>					<i>6</i> 5 <i>argos</i>
Wind. Lgth.	1.75 <i>1 3/4</i>	1.75 <i>1 7/8</i>					
Wire Size	#21	#12					
T.P.L.	52-9L <i>53-9L</i>	3-1 <i>17-3L</i>					
Kind Term.	90% WIRE	90% ONLY					
Term. Lgth.	3" or 9"	3" or 9"					
Layer Insul.	50#	<i>1-2</i> .010" CP					
Test Volt.	1500V	1500V					
Wrapper	2L.007GA	2L.007GA					

TUBE	7L.007 +1-L.005 VC	IMPREGNATION	VARNISH
CORE	1 1/4 x 1 1/4	PRIMARY V.A.	147
MOUNTING	A or B		

Cu = 653-653
Fc = 68.9 @ 60W
TPV = 3.96
WN = .569 (.559)

SVA = 110
PVA = 4.47
PI = 7.23 A.





$$F_1 = 6.6, 6.9$$

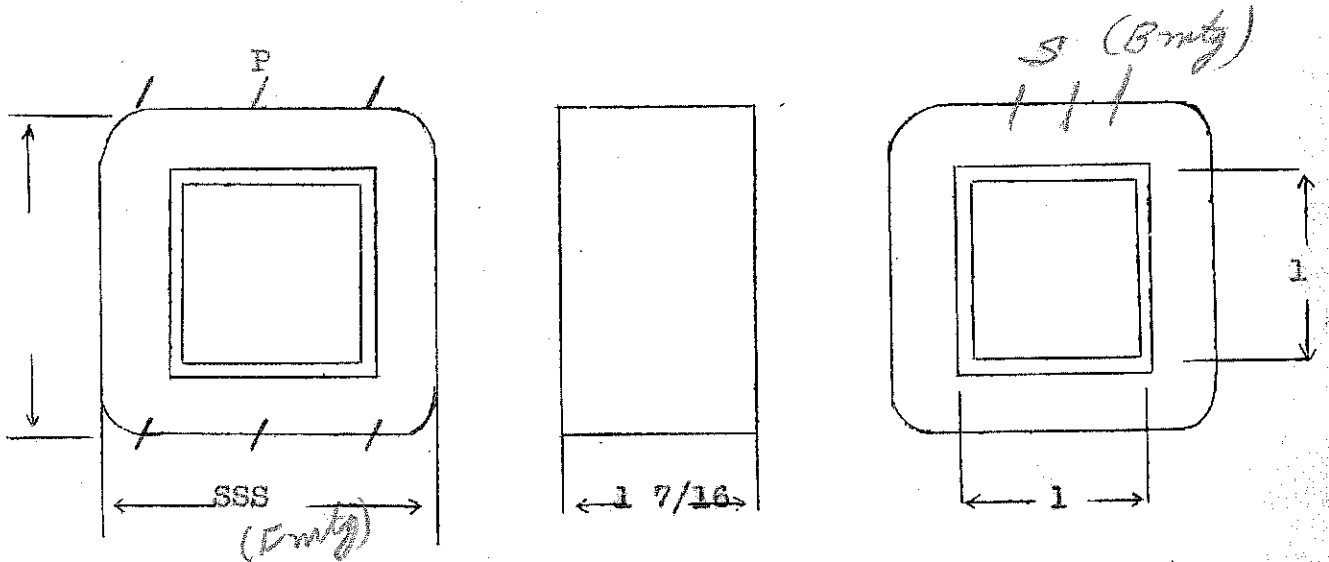
$$F_2 = 6.05, 6.3$$

Ep - 110 V. - 120 V.
 Ef - 7.5 V.C.T. - 8.75 A. - 5000 V. Ins.

OLD

SPEC. NO. F732

Winding	PHI.	f ₁					
Turns	695	49					
Taps	640	24					
Wind. Lgth.	1.25	1.25					
Wire Size	#27	#17					
T.P.L.	65-11	---					
Kind Term.	W. O.	W. O.					
Term. Lgth.	3"	3"					
Layer Insul.	40#	---					
Test Volt.							
Wrapper	2L.007VC 3L.005GA	2L.007VC 3L.005GA					
TUBE	7L.007		IMPREGNATION		VARNISH		
CORE	1 x 1 NW 24 Ga. - 2 x 2				PRIMARY V.A.		
MOUNTING	F or B						



DESIGNED BY G. W.

DATE

$E_p - 220V - 240V$

$E_s - 7.5VCT - 3.75 AMP. - 5000V INSULATION$

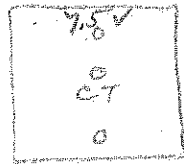
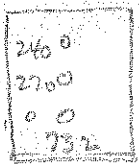
SPEC. NO. F732 - 230V

Winding	PR1	SEC					
Turns	1380	48					
Taps	1260	24					
Wind. Lgth.	1.25	1.25					
Wire Size	#30	#17					
T.P.L.	105-14	—					
Kind Term.	SIL. BR.	W.O.					
Term. Lgth.	3"	3"					
Layer Insul.	40#	—					
Test Volt.	—	5000					
Wrapper	2L007VE 2L005GA	2L007VE 2L005GA					

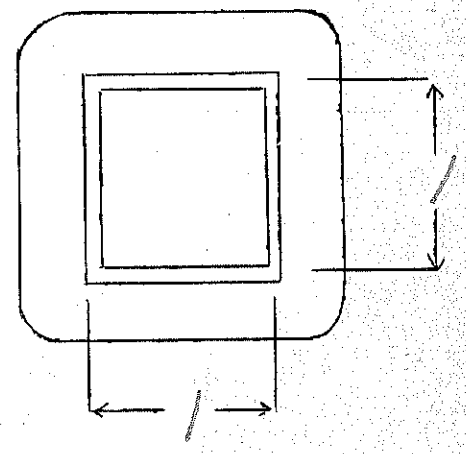
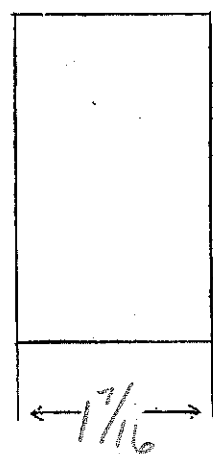
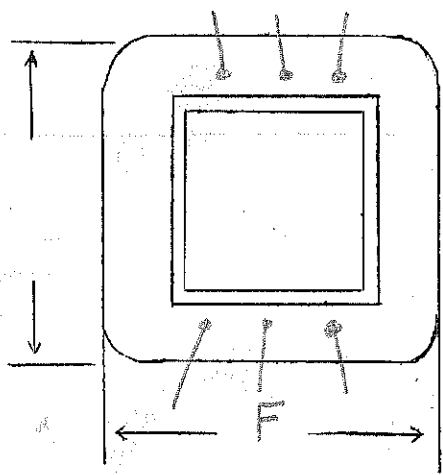
TUBE | 7L007 | IMPREGNATION | DOUBLE VARNISH

CORE | 1 x 1 NW-26 GA. | PRIMARY V.A. | 28

MOUNTING F



P



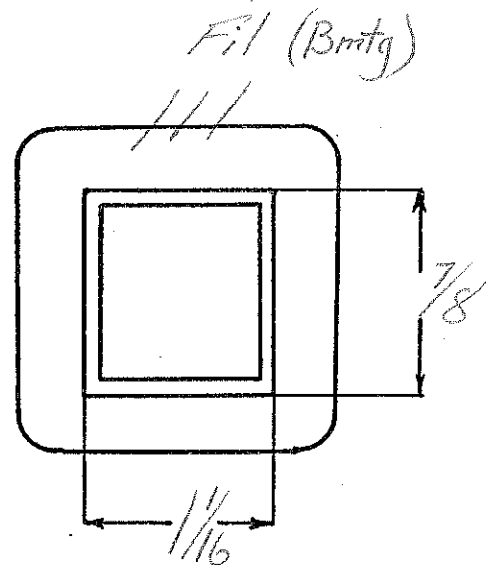
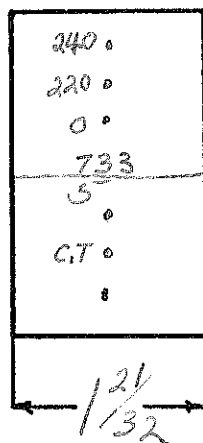
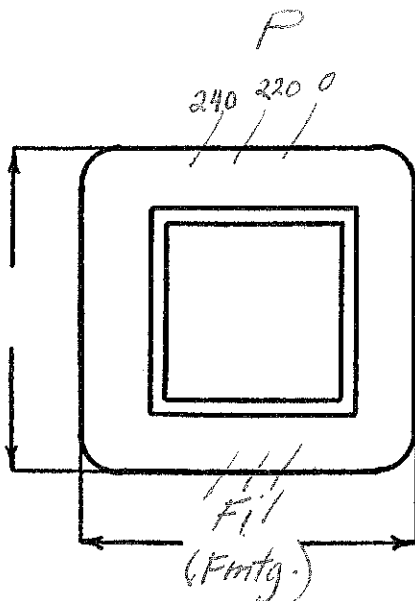
DESIGNED BY *dk low*

DATE 5-24-58

Ep-220 V/240V
 Ef-5VCT-12AMP
 5000V Insulation

SPEC. NO. F733-230V

Winding	Pri	Fi				
Turns	1490	36				
Taps	1370	18				
Wind. Lgth.	1 ¹⁵ / ₃₂	1 ¹ / ₈				
Wire Size	#28	#12				
T. P. L.	94-16	12-3	Center Winding			
Finish						
Type Lead	Wire	Only				
Lead Lgth.	4"	4"				
Layer Insul.	40#					
Test Volt.	1250	5000				
Wrapper	2L007VC 2L005GA	2L007VC 2L005GA				
TUBE	7L007VC		IMPREGNATION		Double Varnish	
CORE	1 ¹ / ₁₆ X 7 ⁷ / ₈	GA. 24	GRADE D		STACK 2X2	
MOUNTING	For B					



DESIGNED BY JCG

DATE 2-24-39

Pri - 110/120V 60w
 Fil 5VCT @ 12A
 5000V Ins.

Stock

SPEC. NO. F-733-252

Winding	Pri	Fil				
Turns	504	24				
Taps	462	12				
Wind. Lgth.	15 1/2"	1 1/4"				
Wire Size	#23	#11				
T. P. L.	54-10L	12-2L				
Finish	88%	89%				
Type Lead	W.O.	W.O.				
Lead Lgth.	4"	4"				
Layer Insul.	1L 50#4	1L 1220#A				
Test Volt.	1250V	5000V				
Wrapper	2L-007VC 2L-005GA	2L-007VC 2L-005GA				

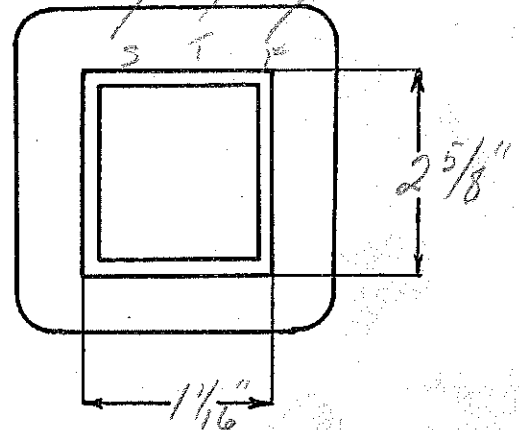
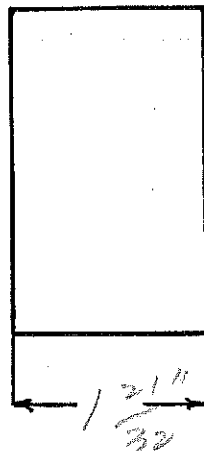
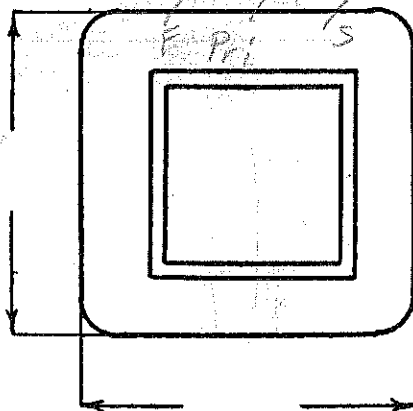
TUBE 7L-007"GR IMPREGNATION Varnish

CORE 1 1/16" x 1 3/8" E-I GA. 24 GRADE D STACK 2x2

MOUNTING "B"

$C_u = 700 - 685$
 $F_e = 69 @ 60w$
 $TPV = 4.2$
 Wire Net =

See VA = 60
 $Pri VA = 80.4$
 $Pri I = 720 ma$
 $\eta = 83\%$ $loss = 90\%$



Re-DESIGNED BY HWS

DATE 8-19-41

Primary - 110/120V - 60 Cycle

Filament - 5V CT @ 12 Amp

5000 V. Ins.

SPEC. NO. E-733

Winding	PRIM.		FIL.			
Turns	504		24			
Taps	488		12			
Wind. Lgth.	1-15/32"		1 1/4" 1 1/2"		NOTE WINDING LENGTH!!	
Wire Size	#83		#11			
T. P. L.	54 - 10L		12 - 2L			
Finish	89%		89%		CENTER WINDING ON COIL.	
Type Lead	W. O.		W. O.			
Lead Lgth.	4"		4"			
Layer Insul.	50%		1L .020 Armita			
Test Volt.	1550		6000 5000			
Wrapper	2L .007" VC 2L .005" GA		2L .007" VC 2L .005" GA			

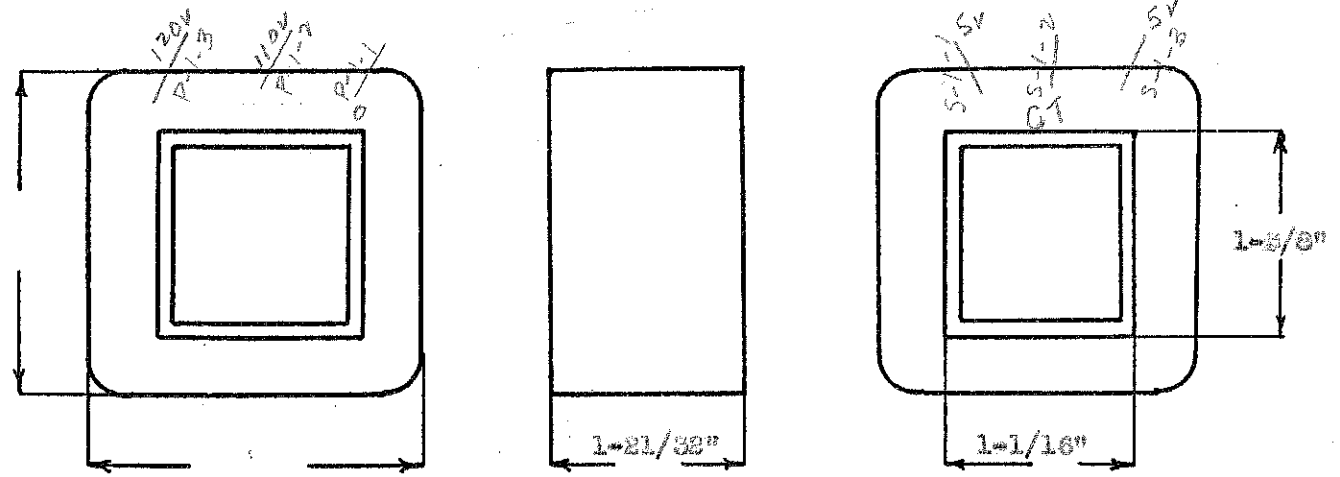
TUBE	7L - .007" GK	IMPREGNATION	VARNISH
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CORE	1-1/16" x 1-5/8" SI	GA.	24	GRADE	D	STACK	2 x 2
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MOUNTING "D" *Note: Multi-Wind Prim. Single - v Sec.*

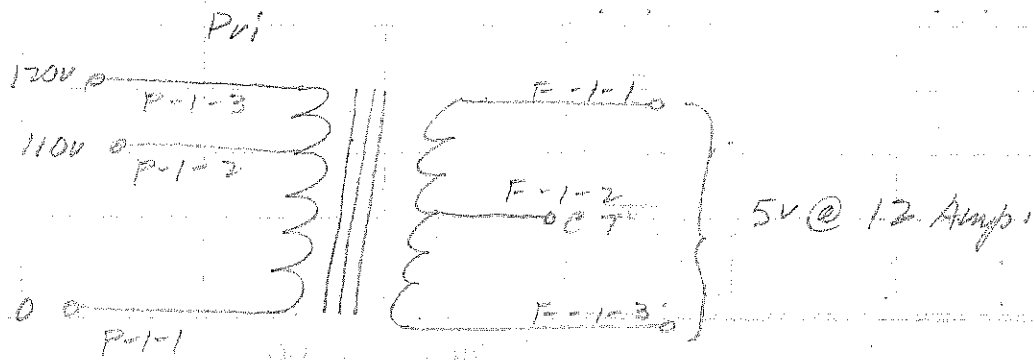
Cu # 700 - 635
 Fe # 69 @ 60 Cycle
 TPF # 4.2
 Wire Net # .470" (.473")

Sec. VA # 60
 Pri. VA # 90.4
 Pri. I # .750
 Efficiency # 83%
 COS θ # 90%

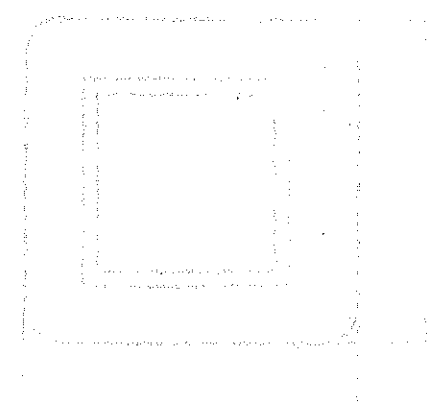
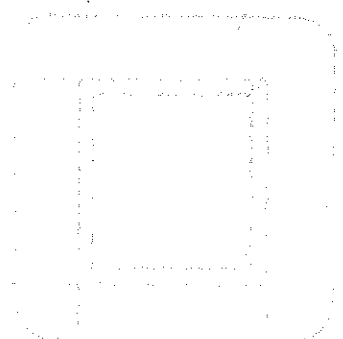
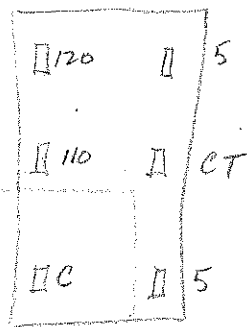


Re-DESIGNED BY H. E. S., Jr.

DATE 7 - 22 - 41



"B" Panel



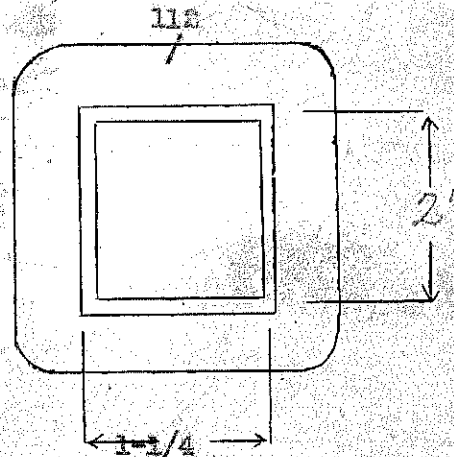
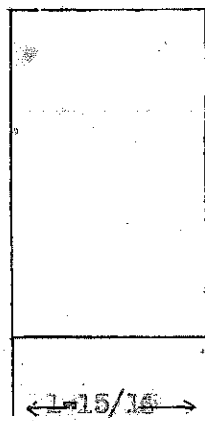
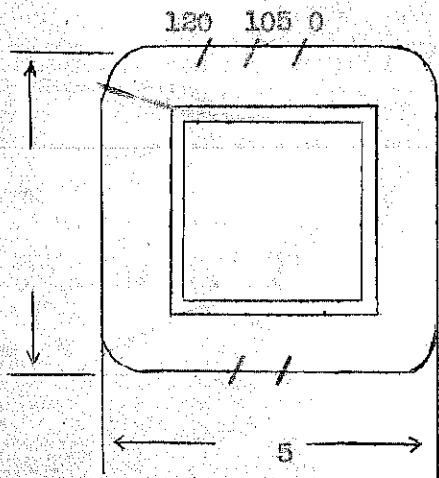
Ep - 105 V. - 112 V. - 120 V.
 Ef - 5 V.O.T. - 20 A. - 10,000 V. Ins.

620

SPEC. NO. F755

Winding	PHI.	$\frac{V_1}{1}$				
Turns	336	16				
Taps	204-314	8				
Wind. Lgth.	1-3/4	15/16	Note			
Wire Size	#21	#10				
T.P.L.	50-7	8-2				
Kind Term.	Wire Only					
Term. Lgth.	6"	6"				
Layer Insul.	50%	007K				
Test Volt.		10,000				
Wrapper	4L007VC 5L007CA	4L007VC 5L007CA				

TUBE	7L007K	IMPREGNATION	VARNISH
CORE	1-1/4 x 2 - 24 - D - 2 x 2	PRIMARY V.A.	
MOUNTING	J		



Ep - 110/120

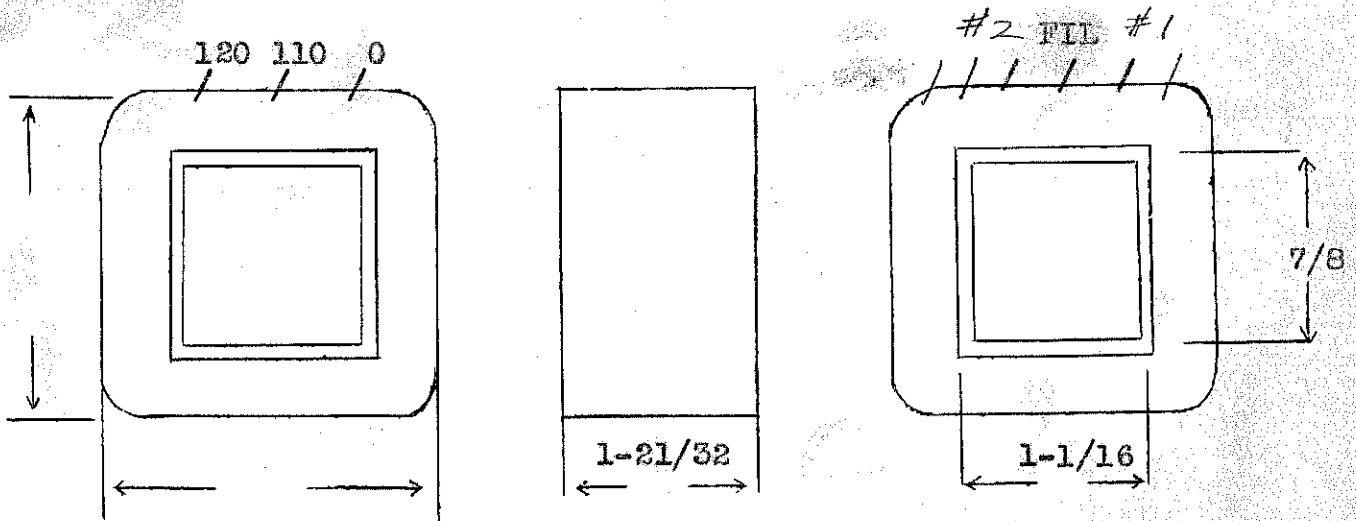
E_{F1} - E_{F2} - 7.5 V. - 3.75 Amp.

OLD

SPEC. NO. F-736

Winding	P	Blue F ₁	White F ₂				
Turns	740	52	52				
Taps	680	26	26				
Wind. Lgth.	1-15/32						
Wire Size	#25	#17	#17				
T.P.L.	70-11	2 L	2 L				
Kind Term.	#20 Par. Br.	WIRE ONLY					
Term. Lgth.	9"	9"	9"				
Layer Insul.	50#						
Test Volt.							
Wrapper	3L005GA	3L005GA	3L005GA				
TUBE	6L007	IMPREGNATION		VARNISH			
CORE	1/16 X 7/8 24 GA - D - 2 X 2			PRIMARY V.A.			
MOUNTING	A or B						

0 - White
110 - Black
120 - Yellow



DESIGNED BY GW

DATE 6/1/38

Ep-220/240 E₂-5VCT-3Amp } Bridge
 Ef₁-5VCT-6Amp Ef₃-5VCT-3Amp } Rectification

4.28

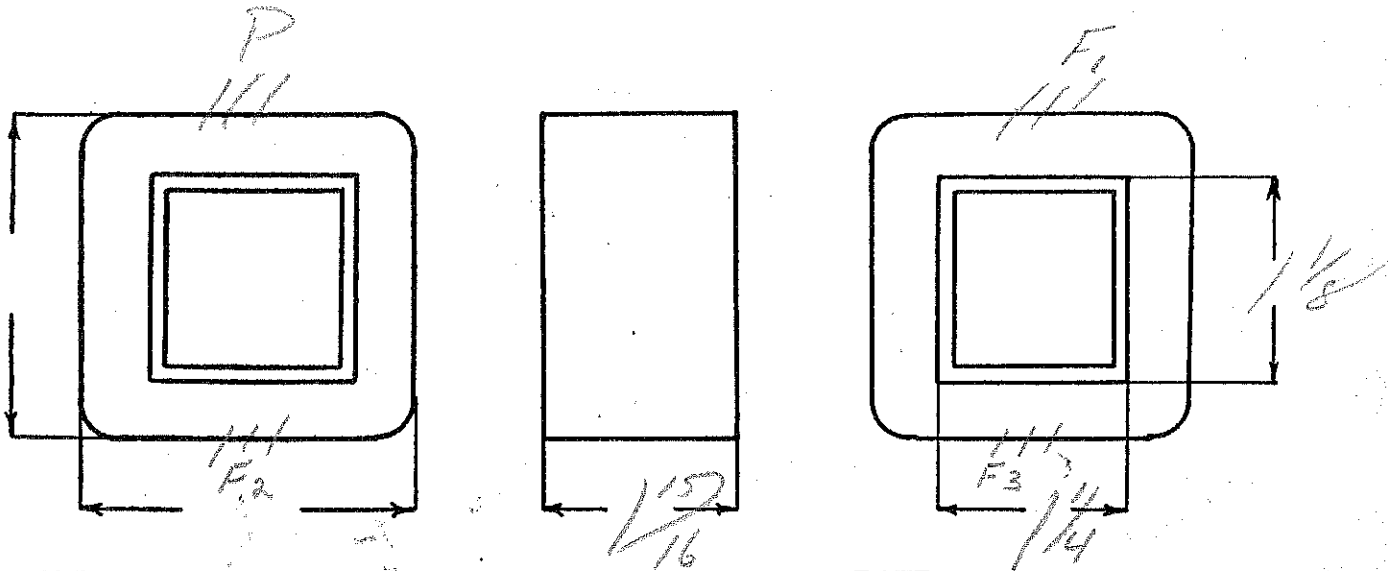
SPEC. NO. F744-230V

Winding	Pri	F ₁	F ₂	F ₃			
Turns	1026	24	24	24			
Taps	944	12	12	12			
Wind. Lgth.							
Wire Size	#26	#15	#18	#18	Space in center 1.		
T. P. L.	94-11	2L	1L	1L			
Finish							
Type Lead	Wire Only						
Lead Lgth.	3"	3"	3"	3"			
Layer Insul.	57 th	007K	007K	007K			
Test Volt.	6000						
Wrapper	2L007VC 3L007GA	2L007VC 3L007GA	2L007VC 3L007GA	2L007VC 3L007GA			

TUBE 7L007GK IMPREGNATION Double Varnish

CORE 1/4 X 1/8 GA. 24 GRADE D STACK 2X2

MOUNTING BB



DESIGNED BY JCS

DATE 2-24-38

Ep 110/120

For Bridge Rectifier

01

E_{f1} - 5VCT-6Amp E_{f3} - 5VCT-3Amp
 E_{f2} - 5VCT-3Amp

4.28

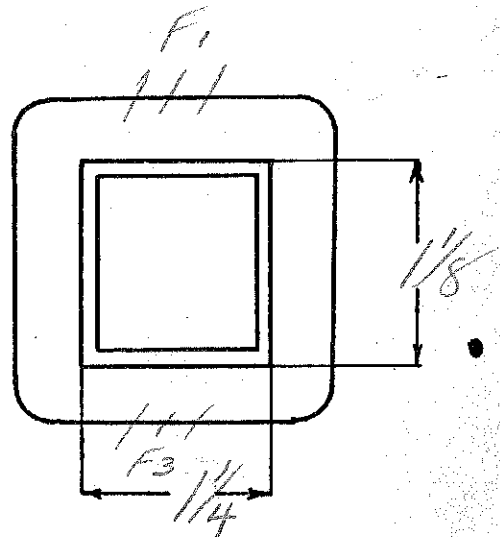
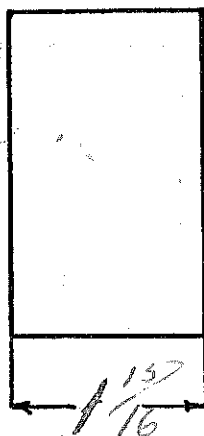
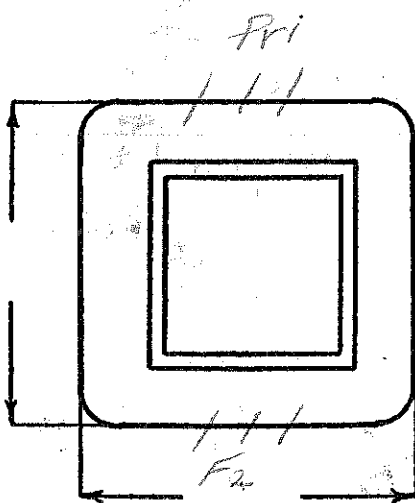
SPEC. NO. F744

Winding	Pri	F ₁	F ₂	F ₃			
Turns	513	24	24	24			
Taps	472	12	12	12			
Wind. Lgth.	1 3/4	Center Windings					
Wire Size	#23	#15	#18	#18			
T. P. L.	68-8	2L	1L	1L			
Finish							
Type Lead	Wire Only						
Lead Lgth.	3"	3"	3"	3"			
Layer Insul.	50#	007K					
Test Volt.	1250		6000				
Wrapper	2L007VC 3L007GA	2L007VC 3L007GA	2L007VC 3L007GA	2L007VC 3L007GA			

TUBE 7L007 GK IMPREGNATION Varnish

CORE 1/4 X 1/8 GA. 24 GRADE D STACK 2X2

MOUNTING BB



DESIGNED BY GW

DATE 5-4-38

FILAMENT

25

STOCK

107-115-122V @ 50/60 cycles
 2.5V CT @ 10 Amps
 3000 volts working

SPEC. NO. F750

Winding	1-2-3-4 Pri			5-6-7 Sec			
Turns	768	747		18			
Taps	666-715	655-704		9 - Bring tap out on one wire only			
Wind. Lgth.	1 1/4		3/4	1 1/8 Center			
Wire Size	#27	#28		Double 16 #13			
T. P. L.	74-111	82-104		9-2L			
Finish	90%			84% 90%			
Type Lead	W.O. vinyl sl. to lugs	S.L. Br.		W.O.			
Lead Lgth.	3			3			
Layer Insul.	40#			1L007GA			
Test Volt.	1500	.189		7000	.112		
Wrapper	3L007VC + 3L40# 2L007GA	2L007VG Interleaved		3L007VC 2600GA			

TUBE	7L007Gk	IMPREGNATION	<u>DOUBLE VARNISH</u>
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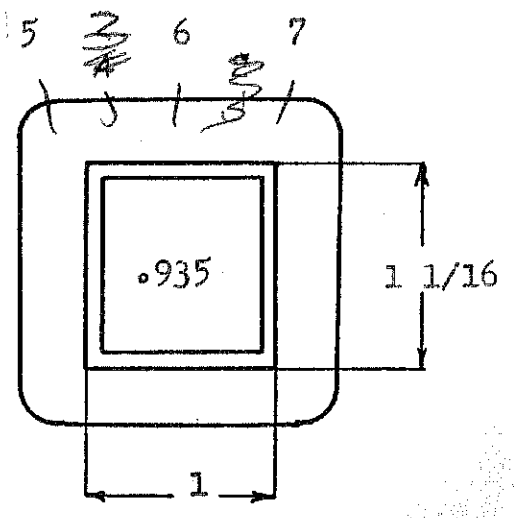
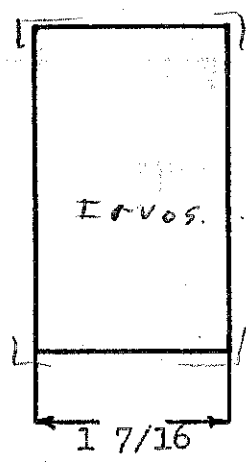
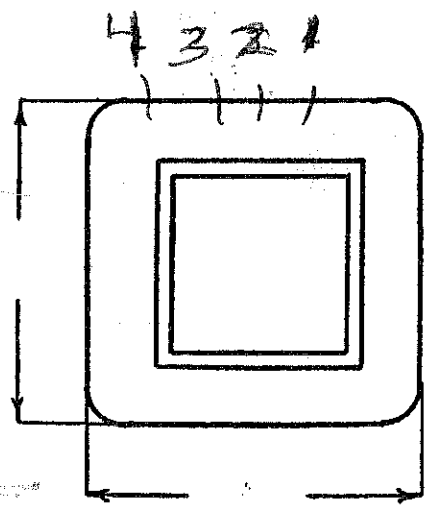
CORE 1 x 1 1/16 GA. 24 GRADE STACK

MOUNTING B Lugs Primary Lugs to Right

Use super lugs

Saddle: 1L015CP + 1L007VG

T.P.V. - 6.2
 window - 443/1500 = 88.6%



DESIGNED BY S. W. B.

DATE 5-3-47

DESIGN AND TEST DATA

Rating:

Sec. VA = 25
 Pri. VA = 34.75
 Pri. I = 325 Ma.

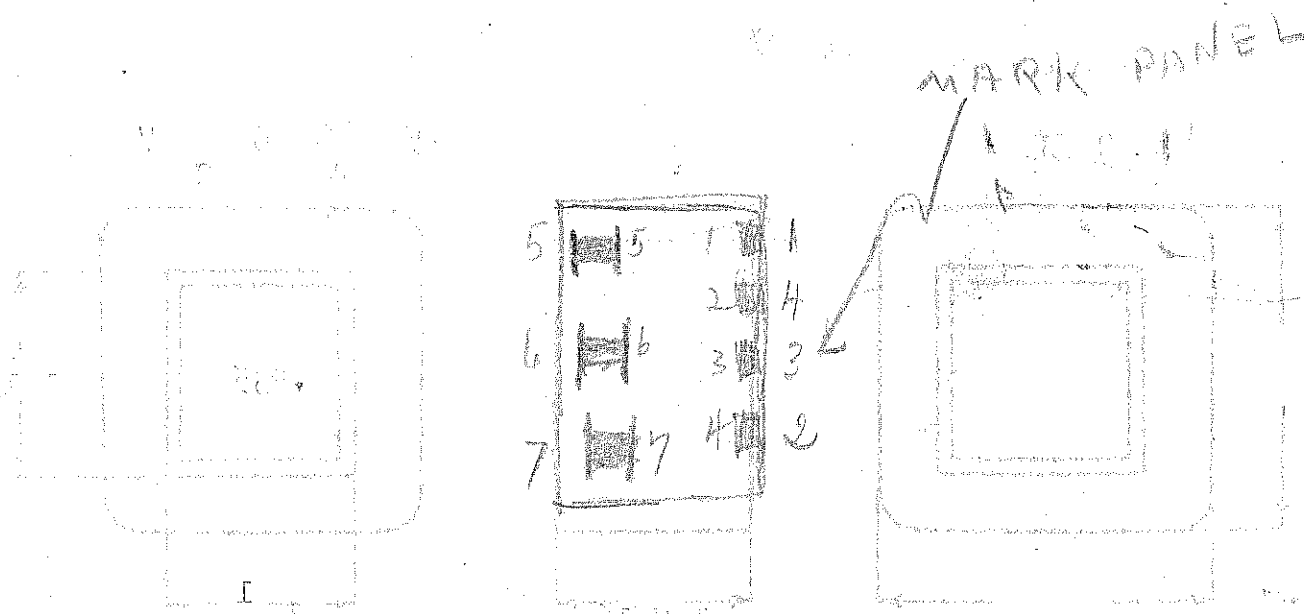
Winding	Pri.	Sec.				
Mean Turn	5.23	6.78				
Resistance 25° c	17.6	.023				
Pounds Copper	.208	.174				
Copper Density	620	517				
Ratio Volts	107-115 122	2.53				
Test to Ground	1500	7000				

Iron Induction 12.0 kg @ 60 Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks:



FILAMENT

STOCK

107-115-122V @ 50/60 cycles
 2.5V CT @ 10 Amps
 3000 volts working

SPEC. NO. F750

Winding	1-2-3-4 Pri			5-6-7 Sec			
Turns	768	747		18			
Taps	666-715	655-704		9 - Bring tap out on one wire only			
Wind. Lgth.	1 1/4		3/4	1 1/8 Center			
Wire Size	#27			Double 16 - #13			
T. P. L.	74-111	82-104		9-2L			
Finish	90%			84% 90%			
Type Lead	W.O. vinyl sl. to lugs	Sil Br.		W.O.			
Lead Lgth.	3			3			
Layer Insul.	40#			1L007GA			
Test Volt.	1500	.189		7000	.112		
Wrapper	3L007VG 3L40# 2L007GA	2L007VG Interleaved		3L007VG 2600GA			

TUBE	7L007Gk	IMPREGNATION
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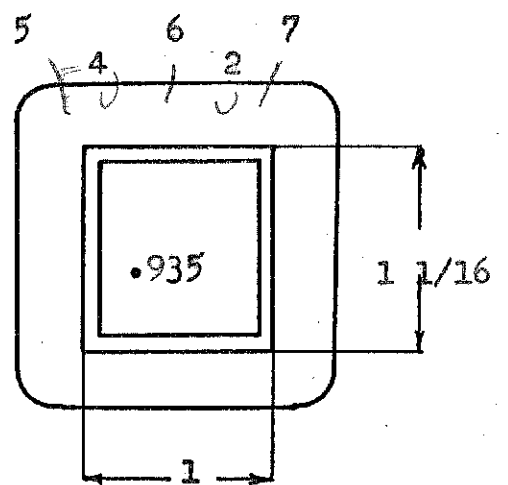
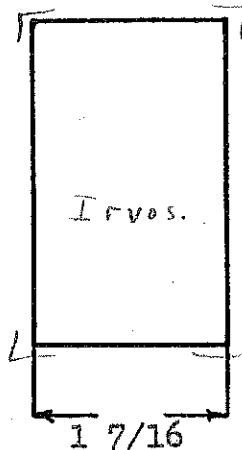
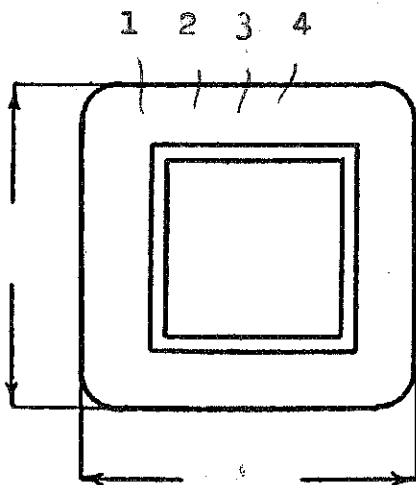
CORE 1 x 1 1/16 GA. 24 GRADE STACK

MOUNTING B Lugs - Primary Lugs to Right

Use super lugs

Saddle: 1L015 CP + 1L007 VG

T.P.V. - 6.2
 Window - $.443 / .500 = 88.6\%$



DESIGNED BY

S. W. B.

DATE 5-3-47

DESIGN AND TEST DATA

Rating:

Sec. VA = 25
 Pri. VA = 34.75
 Pri. I = 325 Ma.

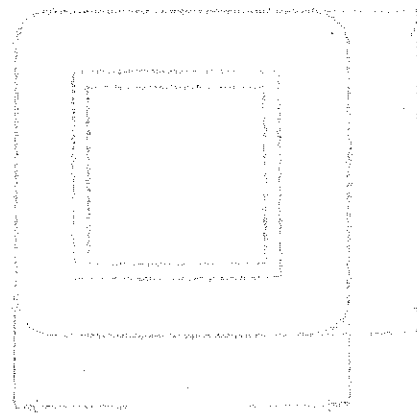
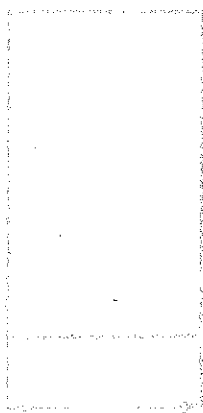
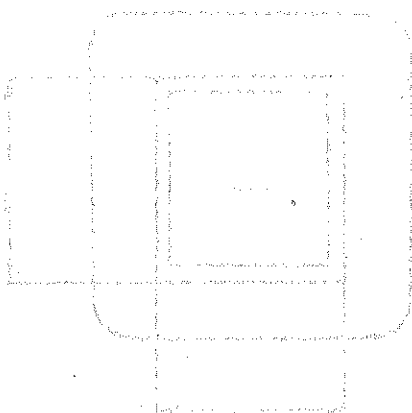
Winding	Pri.	Sec.				
Mean Turn	5.23	6.78				
Resistance 25° c	17.6	.023				
Pounds Copper	.208	.174				
Copper Density	620	517				
Ratio Volts	107-115 122	2.53				
Test to Ground	1500	7000				

Iron Induction 12.0 kg @ 60 Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks:



FILAMENT

STOCK

115 volts @ 50/60 cycles

6.3 volts @ 2 amps

750 working volts

SPEC. NO. F751-D

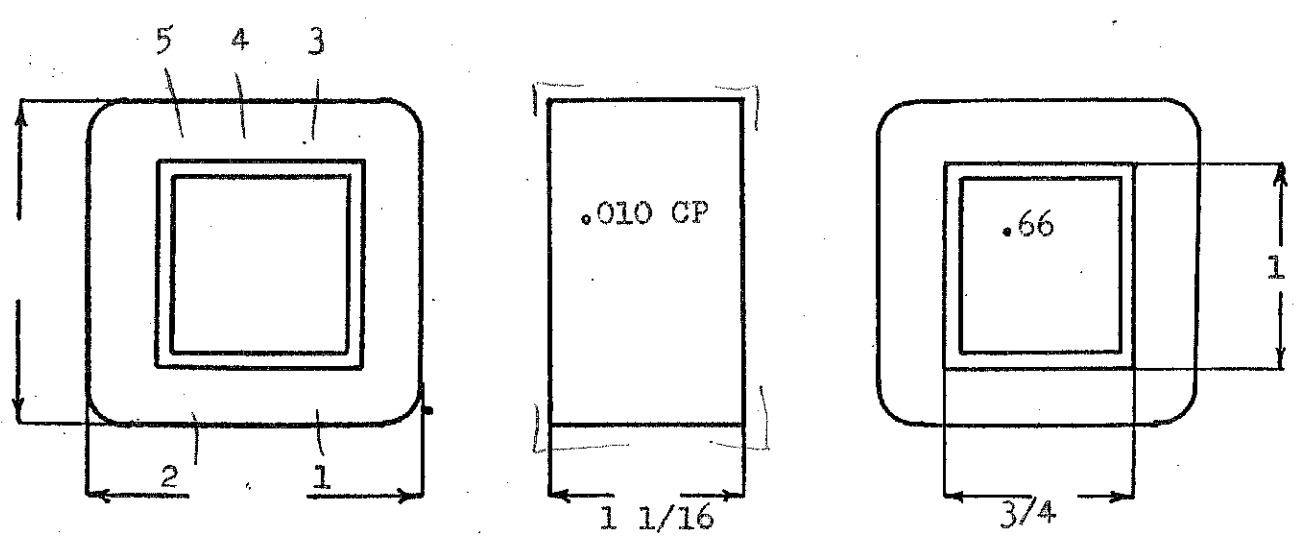
Winding	=1-2 Pri.	3-4-5 Sec.	
Turns	945	60	
Taps	---	30	
Wind. Lgth.	7/8"	3/4"	
Wire Size	#30	#20	
T. P. L.	73-13L	20-3L	
Finish	90%	89%	
Type Lead	Silver Braid	W.O.	
Lead Lgth.	3"	3"	
Layer Insul.	30#	1L005GA	
Test Volt.	1250	2500	
Wrapper	3L005GA	3L005GA	

TUBE	5L007GK	IMPREGNATION	Varnish
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CORE 3/4 x 1 GA. 24 GRADE STACK 2 x 2

MOUNTING D - Lugs Leads

T. P. V. - 8.2
 window - $.341 / .375 = 91\%$



DESIGNED BY
 S. W. B

DATE 5-1-47

DESIGN AND TEST DATA

Rating:

Sec. VA = 12.6

Pri. VA = 18.2

Pri. I = .158 Amps

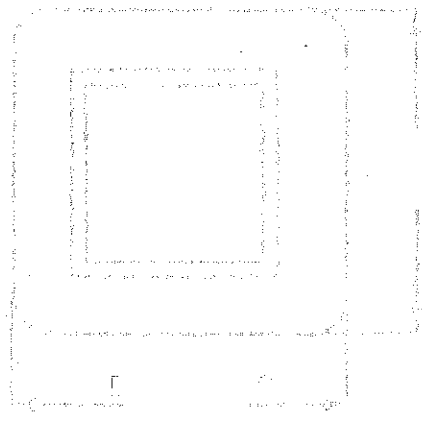
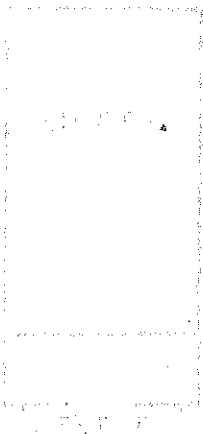
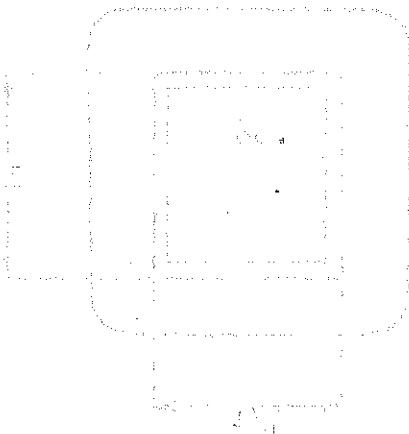
Winding		Pri.		Sec.			
Mean Turn		4.365		5.59			
Resistance 25° c		36.2		.300			
Pounds Copper		.107		.091			
Copper Density		635		511			
Ratio Volts		115		6.36			
Test to Ground		1250		2500			

Iron Induction 12.9 kg @ 50 Cycles

Exciting Current 50 milliampères @ 115 volts 60 cycles on 1-2

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

Remarks:



FILAMENT

115 volts @ 50/60 cycles

STOCK

6.3 volts @ 2 amps

SPEC. NO. F751-D

750 working volts

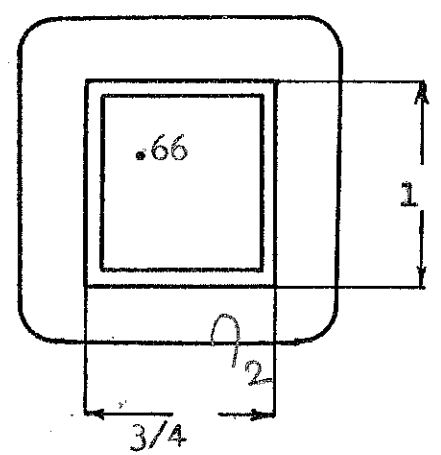
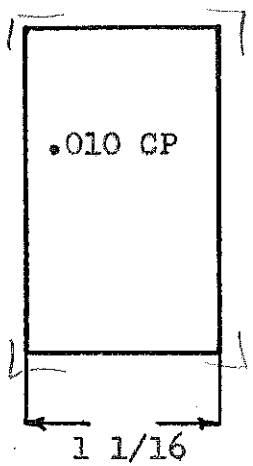
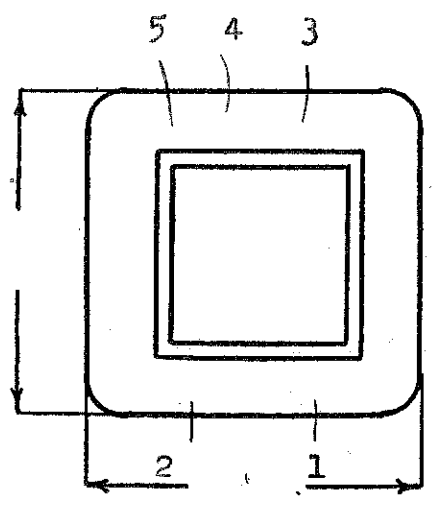
Winding		1-2 Pri.		3-4-5 Sec.			
Turns		945		60			
Taps		---		30			
Wind. Lgth.		7/8"		3/4"			
Wire Size		#30		#20			
T. P. L.		73-13L		20-3L			
Finish		90%		89%			
Type Lead		Silver Braid		W.O.			
Lead Lgth.		3"		3"			
Layer Insul.		30#		1L005GA			
Test Volt.		1250		2500			
Wrapper	3L005GA			3L005GA			

TUBE	5L007GK	IMPREGNATION	Varnish
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CORE	3/4 x 1	GA.	24	GRADE		STACK	2 x 2
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MOUNTING D - Lugs

T. P. V. - 8.2
 window = $.341 / .375 = 91\%$



DESIGNED BY
 S. W. B.

DATE 5-1-47

DESIGN AND TEST DATA

Rating:

Sec. VA = 12.6
 Pri. VA = 18.2
 Pri. I = .158 Amps

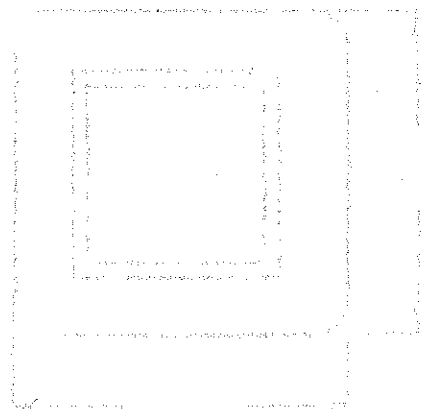
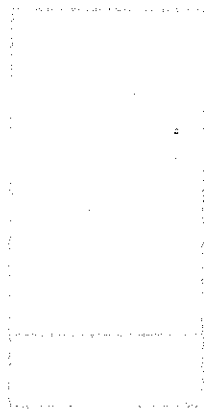
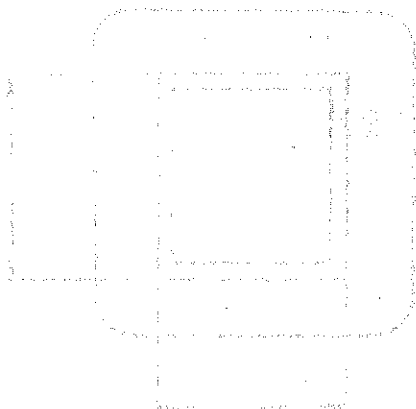
Winding	Pri.	Sec.			
Mean Turn	4.365	5.59			
Resistance 25° c	36.2	.300			
Pounds Copper	.107	.091			
Copper Density	635	511			
Ratio Volts	115	6.36			
Test to Ground	1250	2500			

Iron Induction 12.9 kg @ 50 Cycles

Exciting Current 50 milliamperes @ 115 volts 60 cycles on 1-2

Induced Test: Apply 40 Volts at _____ Cycles on _____ with _____ grounded

Remarks:



FILAMENT

STOCK

110-120 volts @ 50/60 cycles

6.3 Volts CT @ 4 Amps

SPEC. NO. F752

Winding	1-2-3 Pri.		4-5-6 Sec.			
Turns	700		42			
Taps	64.2		21			
Wind. Lgth.	1 1/16		1/1/16			
Wire Size	#28		#17			
T. P. L.	65-11L		21-2L			
Finish	85%		93%			
Type Lead	Silver Braid #22 P. 8		W.O. Sleeve			
Lead Lgth.	3" cut 12"		3" cut 12"			
Layer Insul.	30#		1L005GA			
Test Volt.	1500	.166	2500	.09		
Wrapper	3L005GA		3L005GA			

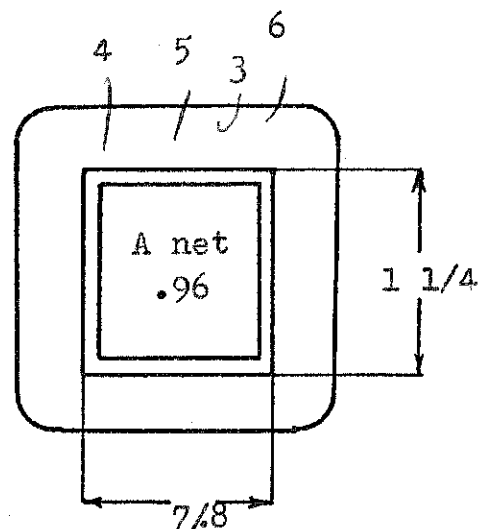
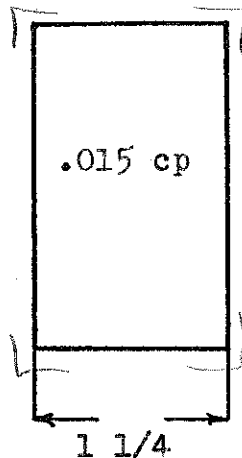
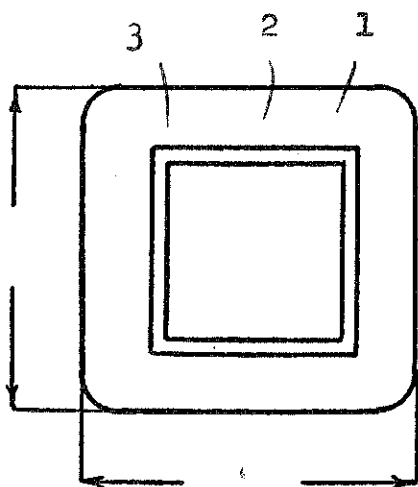
TUBE 6L007GK IMPREGNATION

CORE 7/8 x 1 1/4 GA. GRADE STACK

MOUNTING

T. P. V. - 5.83

Window - $.262 / .4375 = 60\%$



DESIGNED BY

S. W. B.

DATE

DESIGN AND TEST DATA

Rating:

Sec. VA = 25.2
 Pri. VA = 35
 Pri. I = 314 Ma. max.

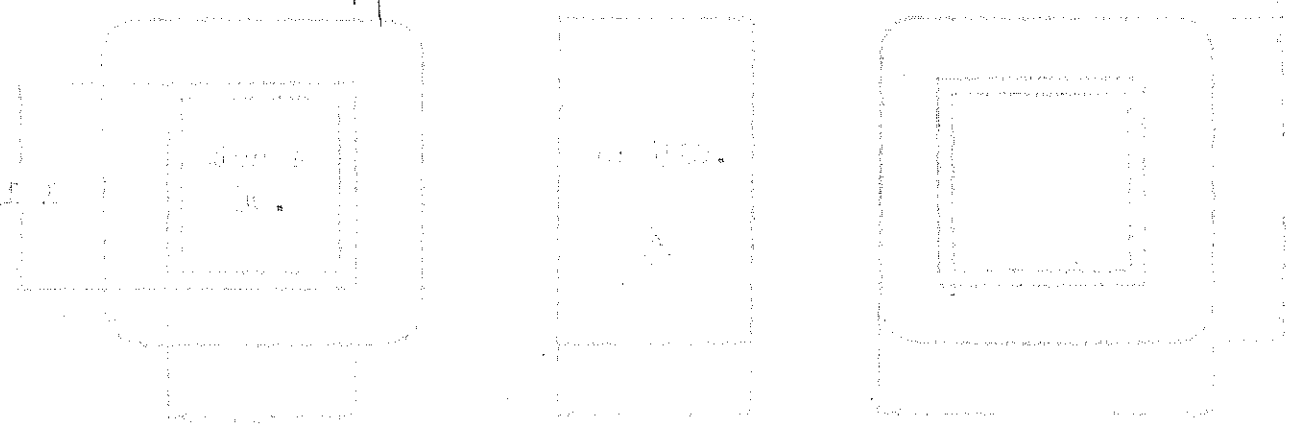
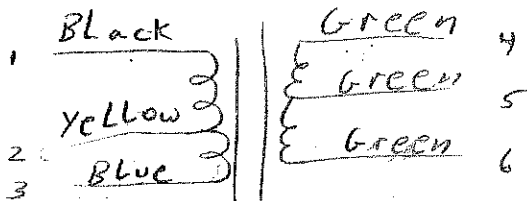
Winding	Pri.	Sec.				
Mean Turn	5.18	6.40				
Resistance 25° c	20.0	.116				
Pounds Copper	.149	.120				
Copper Density	509 max.	513				
Ratio Volts	110-120	6.36				
Test to Ground	1500	2500				

Iron Induction 12.5 @ 50 Cycles

Exciting Current 69 milliamperes @ 120 volts 60 cycles on 1-3

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

Remarks:



FILAMENT

STOCK

110-120 volts @ 50/60 cycles

6.3 Volts CT @ 4 Amps

SPEC. NO. F752

Winding	1-2-3 Pri.		4-5-6 Sec.			
Turns	700		42			
Taps	642		21			
Wind. Lgth.	1 1/16		1 1/16			
Wire Size	#28		#17			
T. P. L.	65-11L		21-2L			
Finish	85%		93%			
Type Lead	Silver Braid #22 P.B		W.O. Sleeve			
Lead Lgth.	3" cut 12"		3" cut 12"			
Layer Insul.	40#		1L005GA			
Test Volt.	1500	.166	2500	.09		
Wrapper	3L005GA		3L005GA			

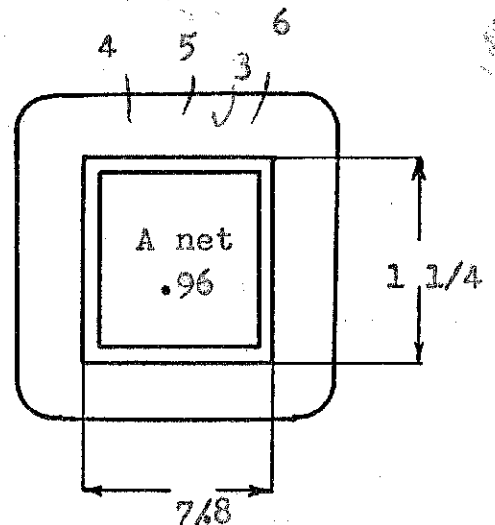
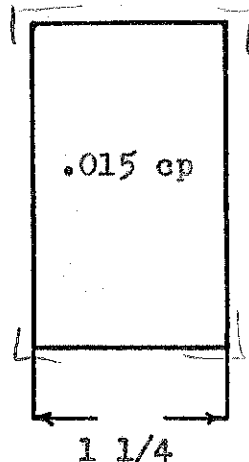
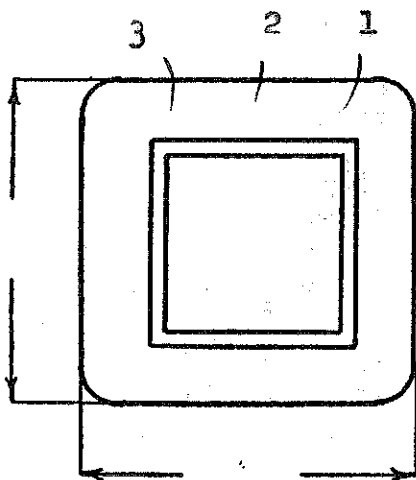
TUBE	6L007GK	IMPREGNATION
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CORE 7/8 x 1 1/4 GA. GRADE STACK

MOUNTING *A*

T. P. V. - 5.83

Window - $.262 / .4375 = 60\%$



DESIGNED BY

S. W. B.

DATE

DESIGN AND TEST DATA

Rating:

Sec. VA = 25.2
 Pri. VA = 35
 Pri. I = 314 Ma. max.

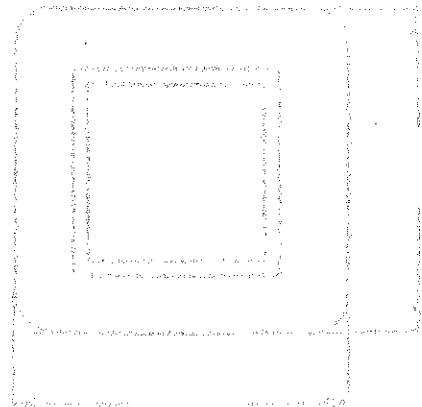
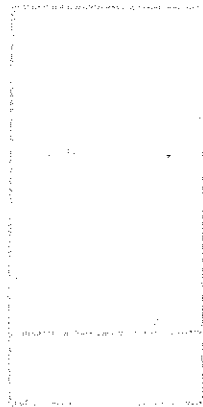
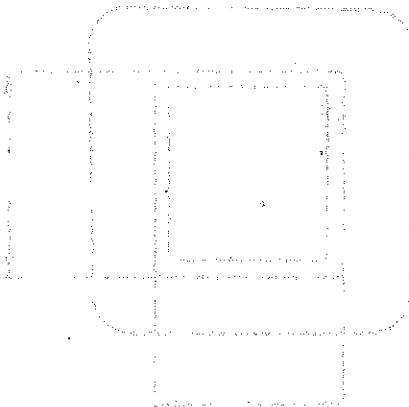
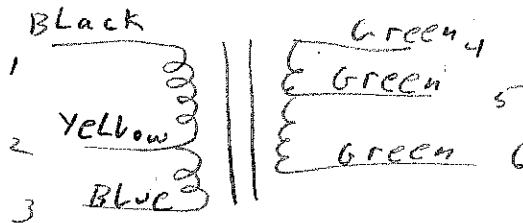
Winding	Pri.	Sec.				
Mean Turn	5.18	6.40				
Resistance 25° c	20.0	.116				
Pounds Copper	.149	.120				
Copper Density	509 max.	513				
Ratio Volts	110-120	6.36				
Test to Ground	1500	2500				

Iron Induction 12.5 @ 50 Cycles

Exciting Current 69 milliamperes @ 120 volts 60 cycles on 1-3

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

Remarks:



FILAMENT

STOCK

107-115-122 volts @ 50/60 cycles
 10 volts CT @ 5 Amps

ATAC TEST CVA MOTOR

F754

SPEC. NO. _____

Winding	1-2-3-4 Pri.		5-6-7 Sec.			
Turns	520		48			
Taps	456-490		24			
Wind. Lgth.	1 1/4		1" (center)			
Wire Size	#25		#16			
T. P. L.	57 - 10L		16 - 3L			
Finish	88%		84%			
Type Lead	W.O. To T-logs		W.O. To T-logs			
Lead Lgth.	3		3			
Layer Insul.	40#		1L007GA			
Test Volt.	1500	210	2500	171		
Wrapper	3L005GA		3L005GA			

TUBE	5L007GK	+1L003CA	IMPREGNATION	Vacnish
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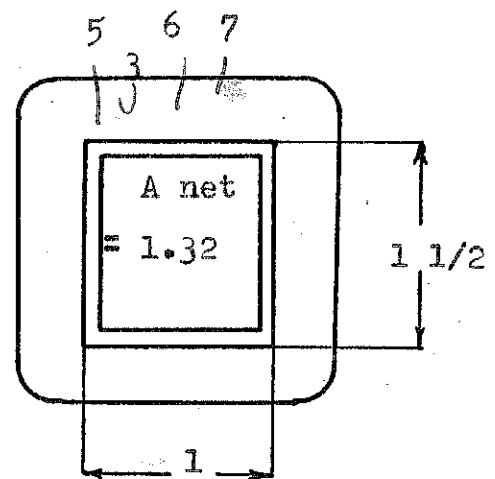
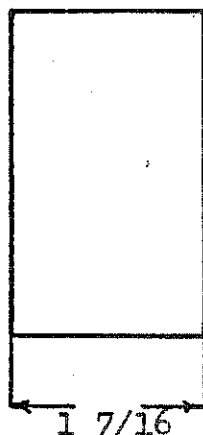
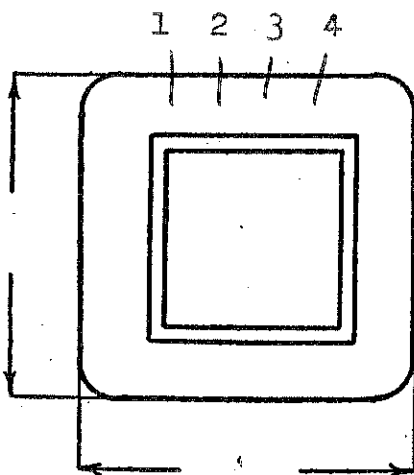
CORE	1 x 1 1/2	GA. 24	GRADE	JK	STACK	2 x 2
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MOUNTING BB Primary Logs to Right

Use Super Lugs

T. P. V. - 4.25
 Window - 456/50 = 91.2%

steel stamp



DESIGNED BY S. W. B.

DATE

DESIGN AND TEST DATA

Rating:

Sec. VA = 50
 Pri. VA = 66
 Pri. I = 616 Ma.

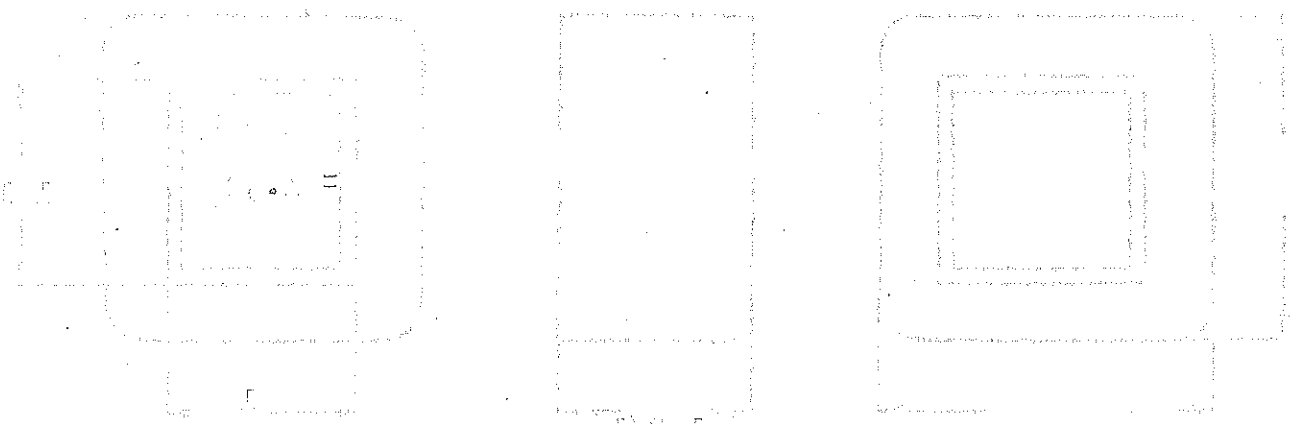
Winding	Pri.	Sec.				
Mean Turn	6.04	7.69				
Resistance 25° c	8.65	.130				
Pounds Copper	.258	.251				
Copper Density	520	517				
Ratio Volts	107-115 122	10.02 on	107 volts			
Test to Ground	1500	2500				

Iron Induction 12.4 @ 50 Cycles

Exciting Current 113 Ma. amperes @ 115 volts 60 cycles on 1-3

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

Remarks:



FILAMENT

STOCK

107-115-122V @ 50/60 cycles

to

10V CT @ 10 amps

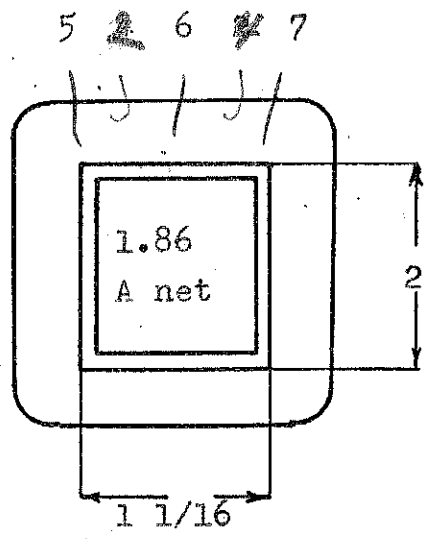
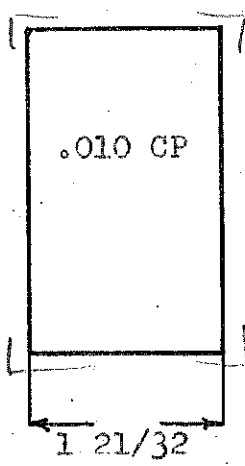
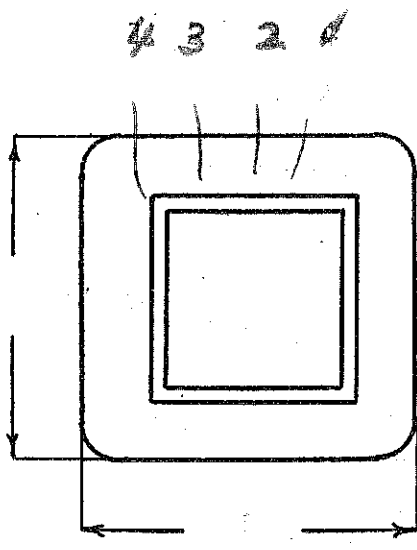
SPEC. NO. F-755

Winding		Pri.		Fl.			
Turns		351		32			
Taps		308 331		16			
Wind. Lgth.	1 3/8	1-15/32		1 15/32			
Wire Size		#21		#12			
T. P. L.		44-9		16-2L			
Finish		91%		95%			
Type Lead		W. O.		W. O.			
Lead Lgth.		3"		3"			
Layer Insul.		50#		1L007GA			
Test Volt.		1250		2500			
Wrapper		.292 3L005GA		.180 3L005GA			

TUBE	7L007GK	IMPREGNATION	Varnish
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CORE 1 1/16 x 2 GA. 24 GRADE D STACK 2 x 2

MOUNTING B - Lugs - Use Super Lugs - Primary Lugs to Right



DESIGNED BY S. Babcock

DATE 10-13-47

DESIGN AND TEST DATA

Rating:

Sec. VA = 100
 Pri. VA = 128
 Ip = 1.195a. max.

Winding		Pri.	ΔE	Fl.		
Mean Turn		7.565		9.425		
Resistance 25° c		2.89		.0407		
Pounds Copper		.55		.502		
Copper Density		678		653		
Ratio Volts		107-115 122		10.40		
Test to Ground		1250		2500		

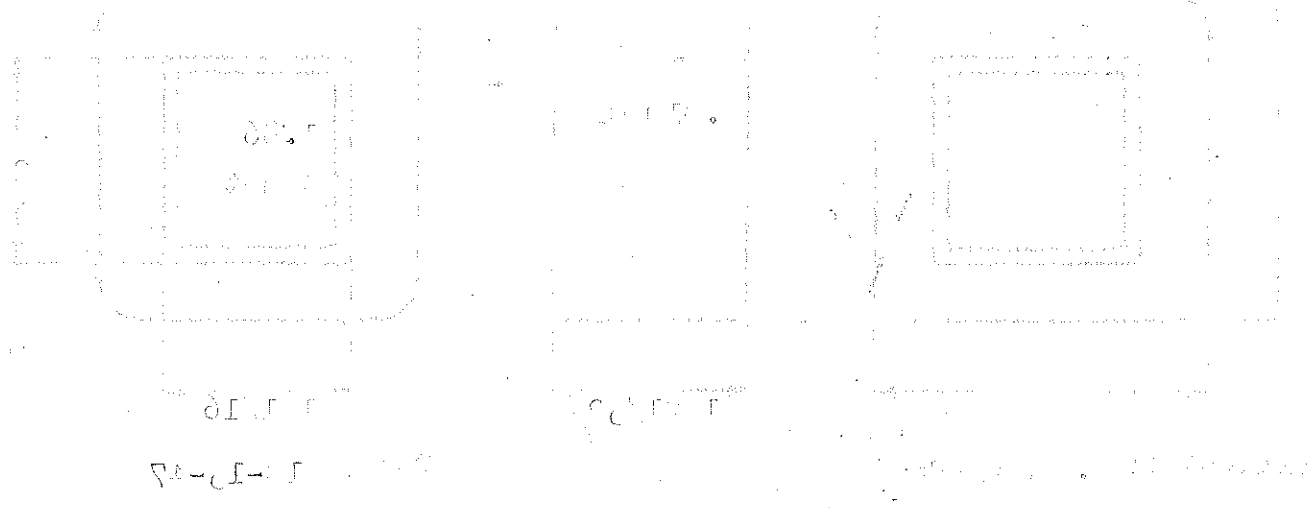
Iron Induction 13.0 @ 50 Cycles Terminals 1-4

Exciting Current 160mA amperes @ 120 volts 60 cycles on 3

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

Remarks:

1-2
 1-3
 1-4



FILAMENT

STOCK

115 volts @ 50/60 cycles
 10/7.5/6.3/5.0/2.5 volts @ 5 Amps

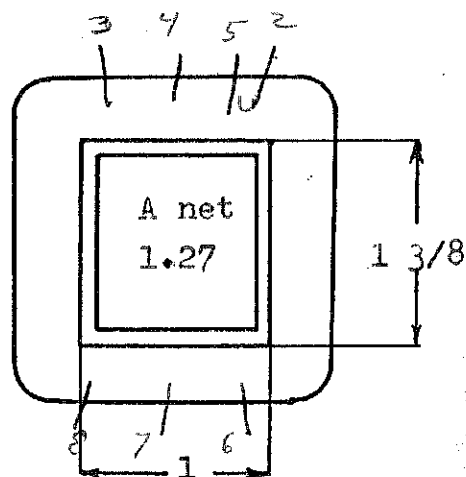
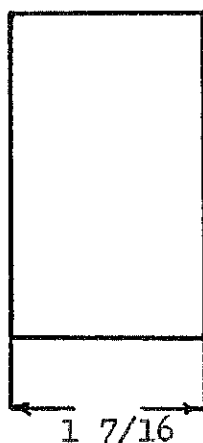
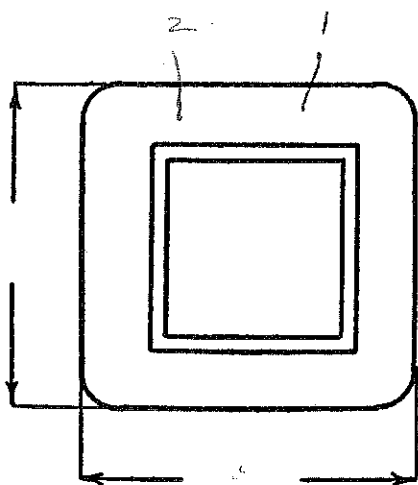
SPEC. NO. F756-B

Winding	1-2 Prf.		3-4-5-6-7-8 Sec.			
Turns	540		53			
Taps	--		13-26-33-40			
Wind. Lgth.	1 1/4		1 1/8 (center)			
Wire Size	#25		#16			
T. P. L.	60-9L		18-3L			
Finish	91%		84%			
Type Lead	W. 0.		W. 0.			
Lead Lgth.	3"		3"			
Layer Insul.	40#		1L007GA			
Test Volt.	1250	.189	2500	.172		
Wrapper	3L005GA		3L005GA			
TUBE	6L007GK		IMPREGNATION			

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

MOUNTING B - Use Super Lugs

T. P. V. - 4.7
 Window - $.443 / .50 = 88.6\%$



DESIGNED BY

S. W. B.

DATE

DESIGN AND TEST DATA

Rating:	<u>2.5V @ 5A</u> Sec. VA = 12.5 Pri. VA = 21.0 Ip = 183 Ma.	<u>10V @ 5A</u> Sec. VA = 50 Pri. VA = 66 Pri. I = 573 Ma.
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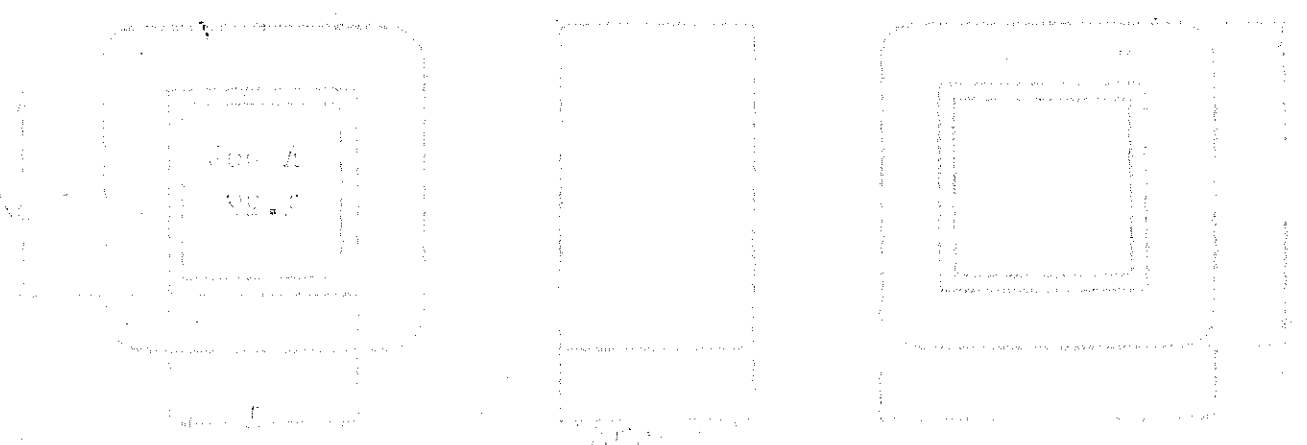
Winding	Pri.	Sec.				
Mean Turn	5.76	7.33				
Resistance 25° c	8.58	.143				
Pounds Copper	.256	.276				
Copper Density	560 max.	517				
Ratio Volts	115	10.08				
Test to Ground	1250	2500				

Iron Induction 12.3 @ 50 Cycles

Exciting Current 98 milliamperes @ 115 volts 60 cycles on 1-2

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

Remarks: _____



FILAMENT

STOCK

115 volts @ 50/60 cycles

10/7.5/6.3/5.0/2.5 volts @ 5 Amps

SPEC. NO. F756-B

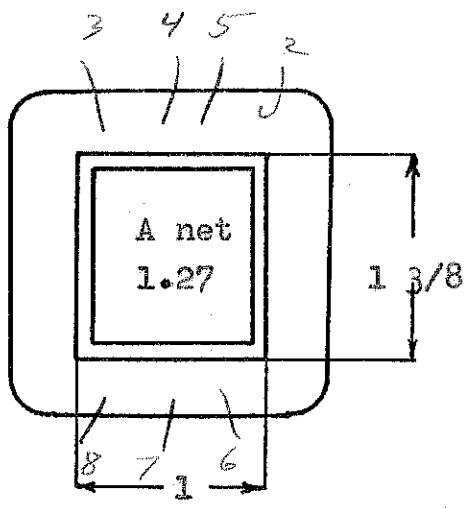
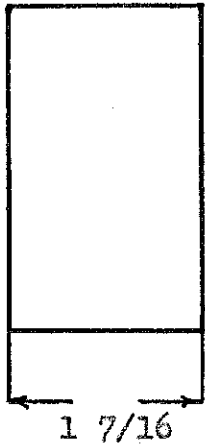
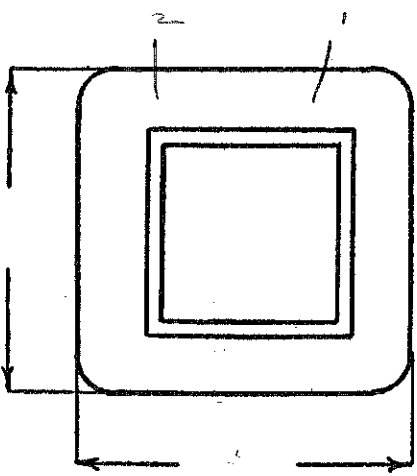
Winding	1-2 Pri.		3-4-5-6-7-8 Sec.			
Turns	540		53			
Taps	--		13-26-33-40			
Wind. Lgth.	1 1/4		1 1/8 (center)			
Wire Size	#25		#16			
T. P. L.	60-9L		18-3L			
Finish	91%		84%			
Type Lead	W. O.		W. O.			
Lead Lgth.	3"		3"			
Layer Insul.	40#		1L007GA			
Test Volt.	1250	.189	2500	.172		
Wrapper	3L005GA		3L005GA			

TUBE	6L007GK	IMPREGNATION
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CORE	1 x 1 3/8	GA.	24	GRADE		STACK
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MOUNTING β B - Use Super Lugs

T. P. V. - 4.7
 Window - $.443/500 = 88.6\%$



DESIGNED BY
 S. W. B.

DATE

DESIGN AND TEST DATA

Rating: 2.5V @ 5A 10V @ 5A

Sec. VA = 12.5 Sec. VA = 50

Pri. VA = 21.0 Pri. VA = 66

Ip = 183 Ma. Pri. I = 573 Ma.

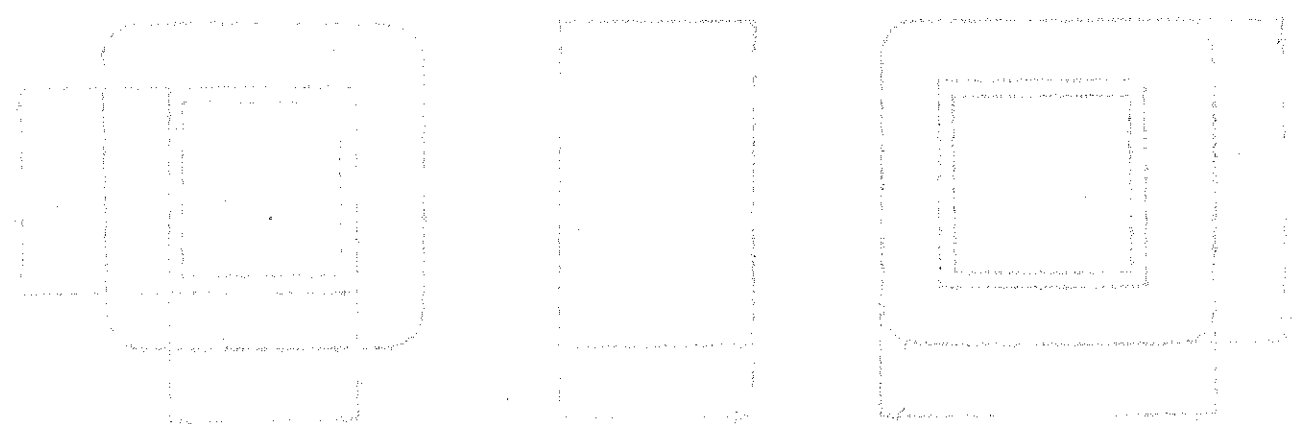
Winding	Pri.		Sec.			
Mean Turn	5.76		7.33			
Resistance 25° c	8.58		.143			
Pounds Copper	.256		.276			
Copper Density	560 max.		517			
Ratio Volts	115		10.08			
Test to Ground	1250		2500			

Iron Induction 12.3 @ 50 Cycles

Exciting Current: 98 milliamperes @ 115 volts 60 cycles on 1-2

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

Remarks: _____



FILAMENT

STOCK

115 volts @ 50/60 cycles

to 5 volts @ 3 amps, 6.3 volts CT @ 4 Amps

SPEC. NO. F757

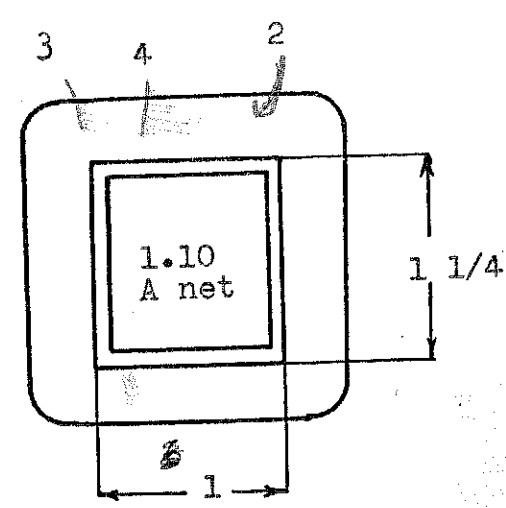
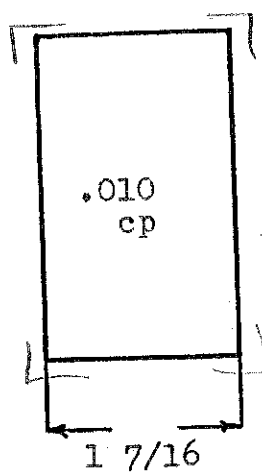
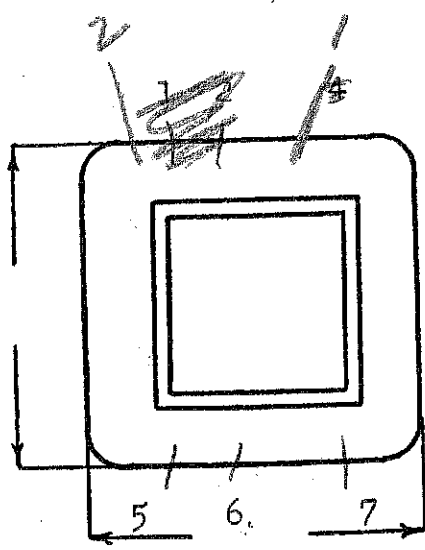
Winding	1-2 = Pr1. =	3-4 Fil #1	5-6-7 Fil #2
Turns	603	30	38
Taps	---	---	19
Wind. Lgth.	1 1/4	1 1/4	1 1/4
Wire Size	#26	#18	#17
T. P. L.	67-9L	28-1L	19-2L
Finish	91%	93%	85%
Type Lead	W.O. #22 P.B	W.O. sleeve	W.O. sleeve
Lead Lgth.	3" cut 12"	3" cut 12"	3" cut 12"
Layer Insul.	40#	40#	1L005GA
Test Volt.	1250	2500	2500
	.171	.042	.099
Wrapper	3L005GA	3L005GA	3L005GA

TUBE 7L007GK IMPREGNATION Varnish

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

MOUNTING ~~AA~~ AA

T. P. V. - 5.25
Window - .416 / .50 = 83.2%



DESIGNED BY

C. W. R

DATE

DESIGN AND TEST DATA

Rating:

Sec. VA = 40.2
 Pri. VA = 53.5
 Ip = 465 Ma.

Winding	Pri.		Fil #1	---	Fil #2	---	
Mean Turn	5.50		6.53		7.15		
Resistance 25° c	11.5		.110		.122		
Pounds Copper	.214		.089		.149		
Copper Density	546		542		513		
Ratio Volts	115		5.11		6.40		
Test to Ground	1250		2500		2500		

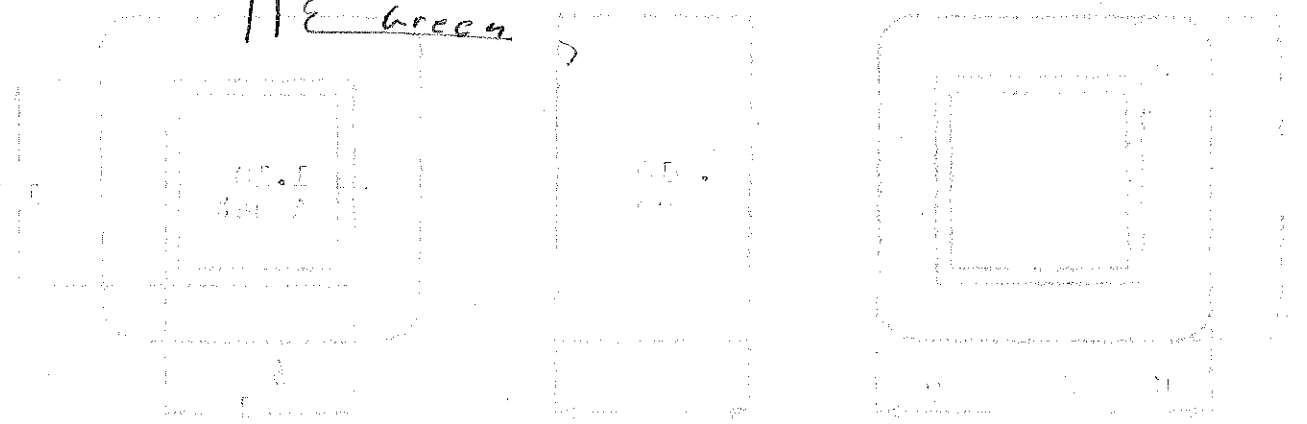
Iron Induction 12.1 kg @ 50 Cycles

Exciting Current 71 milli amperes @ 115 volts 60 cycles on 1-2

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

Remarks:

1 Black	Yellow 3
2 Black	Yellow 4
	Green 5
	Green 6
	Green 7



Filament

stock

107-115-122V @ 50/60

5.1V ct @ 20 a. 10,000V test
4500V working

SPEC. NO. F762

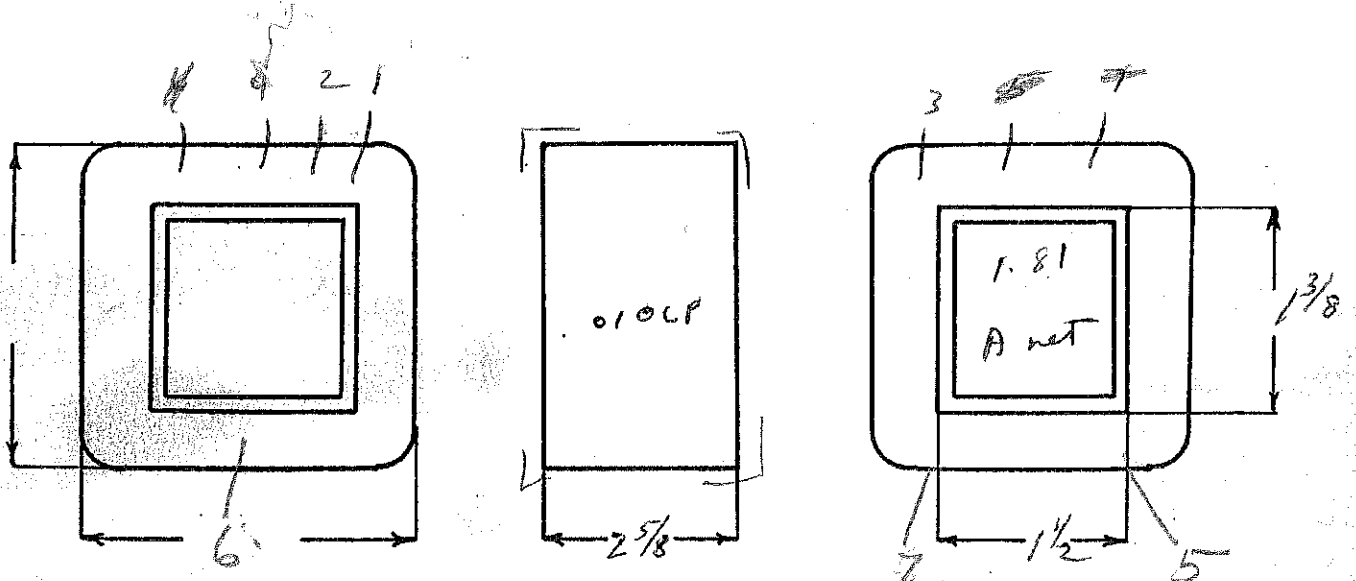
Winding	1-2-3-4 Pri	5-6-7 Sec		
Turns	430	20		
Taps	377-405	10		
Wind. Lgth.	2 1/4	2 1/2		
Wire Size	#21	#10 plastic	1190 0 D.	
T. P. L.	63-8L	10-2L		
Finish	85%	85%		
Type Lead	W.O. steel P.R.	W.O.		
Lead Lgth.	9"	9"		
Layer Insul.	50 #	TL015CP		
Test Volt.	1500	10,000		
Wrapper	1L0076K	4L0076K		

TUBE 8L0076K IMPREGNATION Varnish

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

MOUNTING A

72% window



DESIGNED BY S. Babcock

DATE 1-20-48

DESIGN AND TEST DATA

Rating:

*IP = 1.16 min.
@ 123V.*

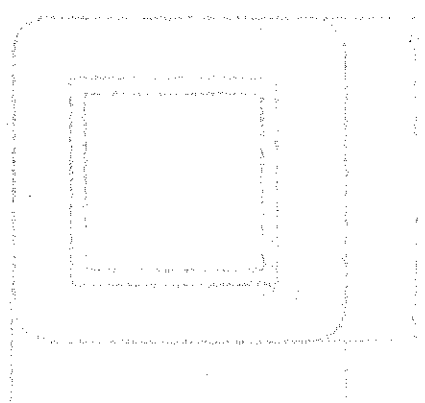
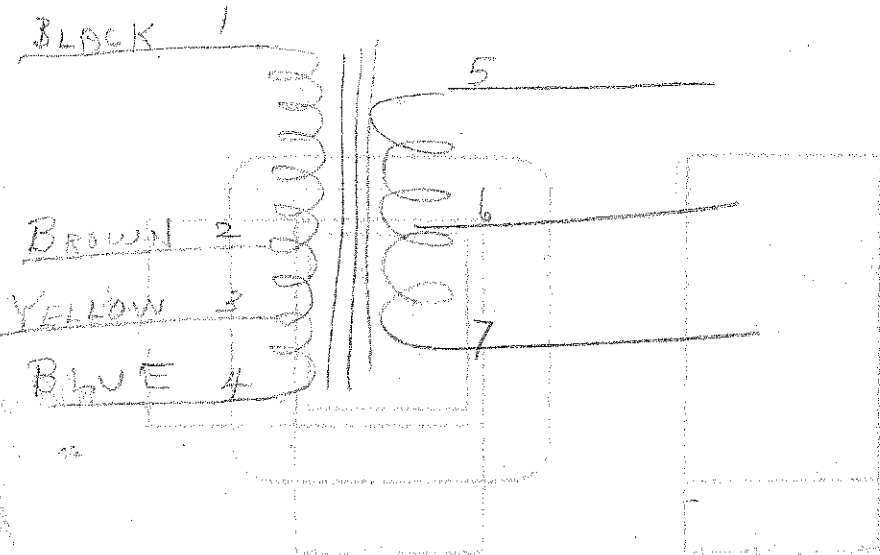
Winding		<i>Pr.</i>		<i>500.</i>		
Mean Turn		<i>7.12</i>		<i>9.55</i> <i>10.25</i>		
Resistance 25° c		<i>3.33</i>		<i>.0162</i>		
Pounds Copper		<i>.632</i>		<i>.504</i>		
Copper Density		<i>612</i>		<i>502</i>		
Ratio Volts		<i>115</i>		<i>5.16</i>		
Test to Ground		<i>1,500</i>		<i>10,000</i>		

Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks:



DESIGN AND TEST DATA

Rating: _____

Sec VA = 61.2
Pri VA = 85

$I_p = 795 \text{ ma}$
(697 ma)

Winding		Pri		Sec			
Mean Turn		6.57		8.55			
Resistance 25° c		6.0		.023	.3		
Pounds Copper		.297		.284			
Copper Density		500 max.		503			
Ratio Volts		122		5.13			
Test to Ground		1500		1000			

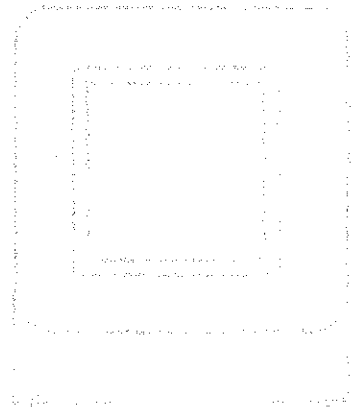
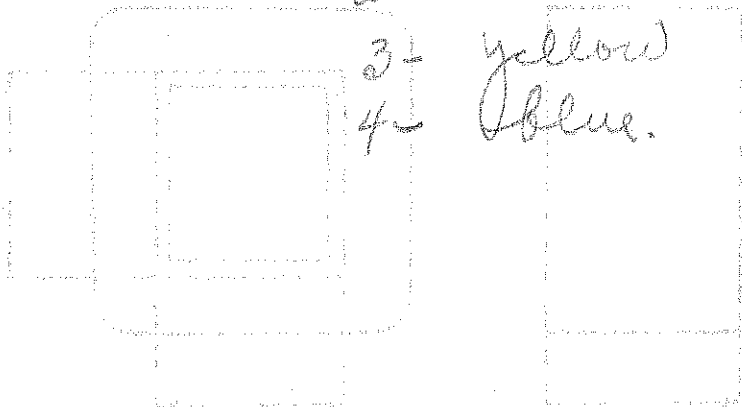
Iron Induction _____ @ _____ Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks:

pri - 1 - black
 2 - brown
 3 - yellow
 4 - blue.



Filament

Stock

107 - 115 - 122 V @ 50/60 ~

2.5 V ct @ 10^a **10,000 V test**
4500 V working

SPEC. NO. F 760

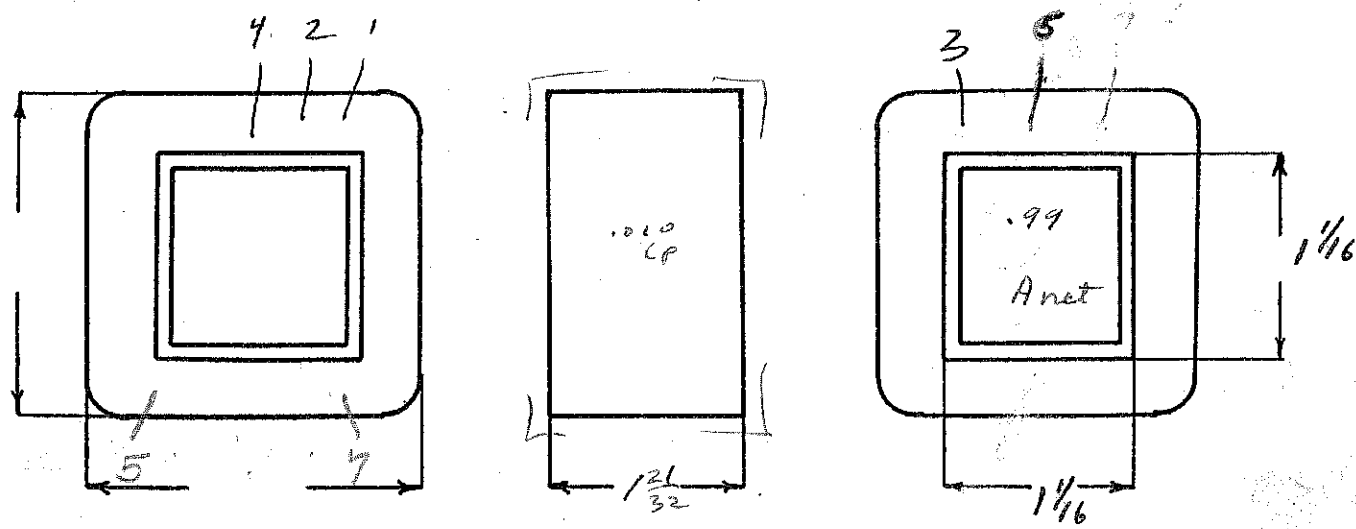
Winding	1-2-3-4 Pr.	5-6-7 Sec	
Turns	740	17	
Taps	650 - 700	8 1/2	
Wind. Lgth.	1 7/16	1 7/16	
Wire Size	# 27	# 12 Plastic	.167
T. P. L.	82 - 104.	8 1/2 - 21	
Finish	88%	99%	
Type Lead	# 22 P. B	W. D.	
Lead Lgth.	9"	9"	
Layer Insul.	40 #	1L 0/0 CP	
Test Volt.	1500	10,000	
Wrapper	1L 0076A	4L 0076A	

TUBE 7L 007 6K IMPREGNATION Varnish

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

MOUNTING A-A

window 86%



DESIGNED BY S. Babcock

DATE 3-3-48

DESIGN AND TEST DATA

Rating:

Sec VA = 25
 Pri VA = 34.75
 I_p = 325 ma. max.
 285 ma. min.

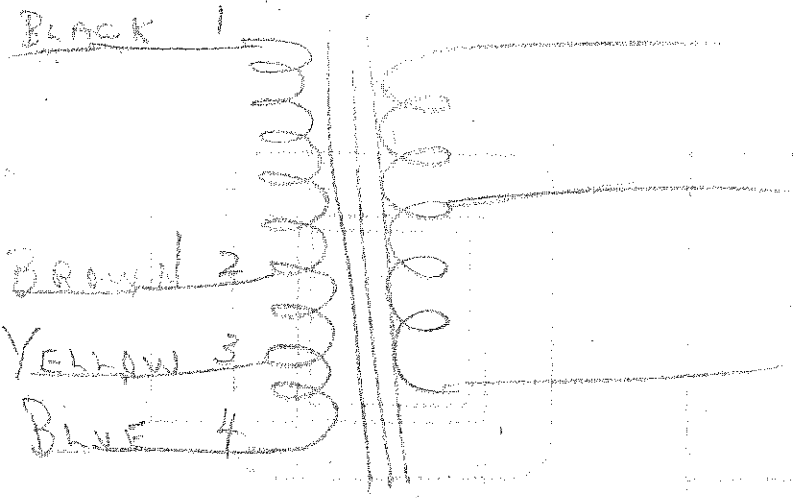
Winding		Pri		Sec		
Mean Turn		5.17		7.05		
Resistance 25° c		16.75 21.05		.0619		
Pounds Copper		.198 .1565		.1997		
Copper Density		500 620		653		
Ratio Volts		1.15		2.53		
Test to Ground		1500		10,000		

Iron Induction 11.6 G @ 30 Cycles

Exciting Current _____ amperes @ _____ volts 60 cycles on _____

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

Remarks:



FILAMENT

110-120 volts @ 50/60 cycles
 6.3 volts CT @ 8 Amps
 750 volts working

SPEC. NO. F753

Winding	1-2-3 Pri.		4-5-6 Sec.				
Turns	567		34				
Taps	520		17				
Wind. Lgth.	1 1/4		1 1/4				
Wire Size	#25		#14				
T. P. L.	61-10L		172				
Finish	89%		90%				
Type Lead	W.O.	# 22 P.B.	W.O. sleeve	4 inyl.			
Lead Lgth.	3	cut 12"	3	cut 12"			
Layer Insul.	40#		1L005GA				
Test Volt.	1500	.210	2 5 0 0	.139			
Wrapper	3L005GA		3L005GA				

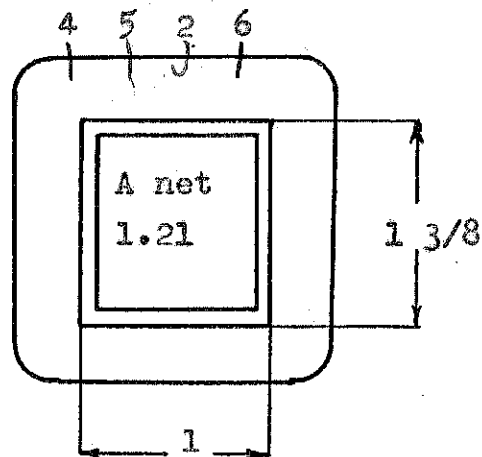
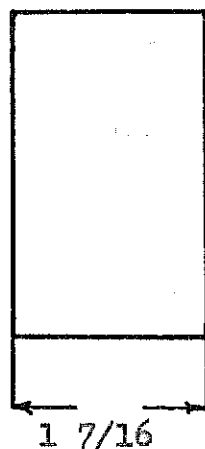
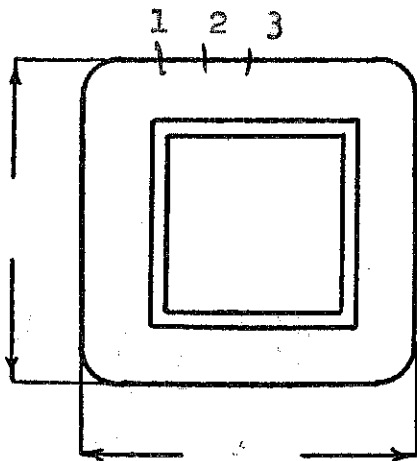
TUBE 6L007GK + IL003VP IMPREGNATION

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

MOUNTING A - Primary Lugs to Right

~~Use Super Lugs~~

T. P. V. - 4.72
 window - $.434 / .50 = 86.8\%$



DESIGNED BY

S. W. B.

DATE 5-2-47

DESIGN AND TEST DATA

Rating:

Sec. VA = 50.4

Pri. VA = 66.3

I Pri. = 603 Ma. max.

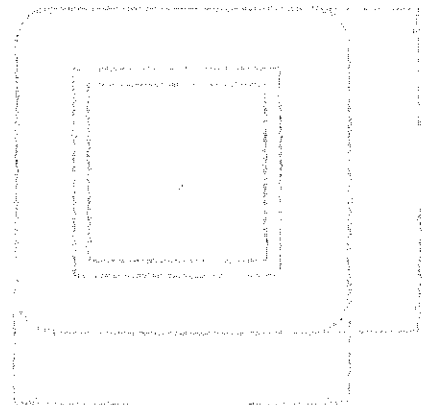
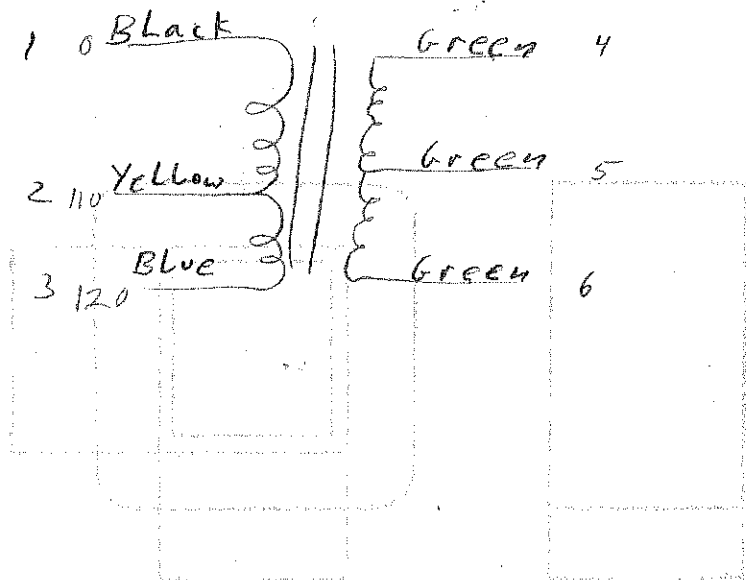
Winding	Pri.	Sec.				
Mean Turn	5.86	7.44				
Resistance 25° c	9.15	.057				
Pounds Copper	.273	.277				
Copper Density	532	514				
Ratio Volts	110-120	6.41				
Test to Ground	1500	2500				

Iron Induction 12.2 @ 50 Cycles

Exciting Current 93 Ma. amperes @ 120 volts 60 cycles on 1-3

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

Remarks:



FILAMENT

STOCK

115 volts @ 50/60 cycles

2.5 volts CT @ 5 Amps

SPEC. NO. F758

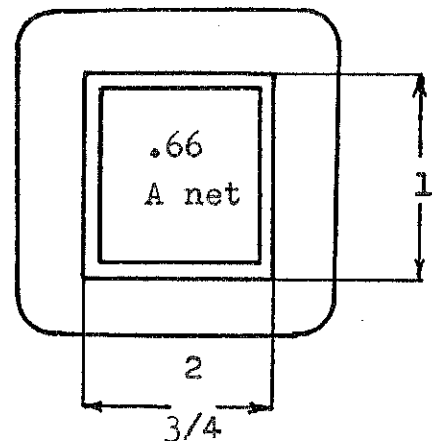
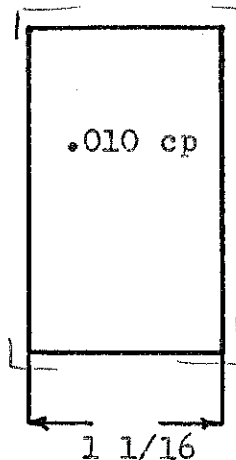
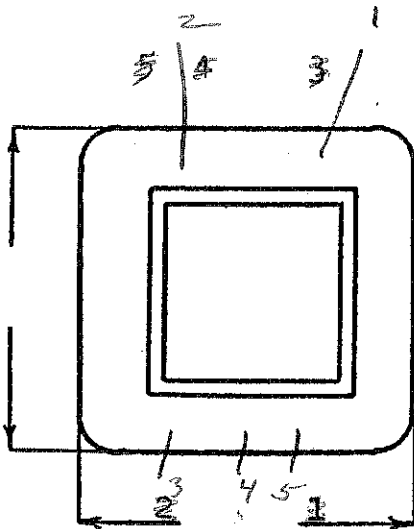
Winding	1-2 Pri.	3-4-5 Sec.			
Turns	1000	26			
Taps	--	13			
Wind. Lgth.	7/8"	3/4"			
Wire Size	#31	#16			
T. P. L.	77-13L	13-2L			
Finish	85%	91%			
Type Lead	Silver Braid	W.O.			
Lead Lgth.	3"	3"			
Layer Insul.	30#	1L007GA			
Test Volt.	1250	2500			
Wrapper	3L005GA	3L005GA			

TUBE 5L007GK IMPREGNATION

CORE 3/4 x 1 GA. 24 GRADE STACK

MOUNTING D - Leads Use Super Lugw

T. P. V. - 8.7
 window - $.330 / .375 = 88\%$



DESIGNED BY S. W. B.

DATE 5-10-47

DESIGN AND TEST DATA

Rating:

Sec. VA = 12.5

Pri. VA = 18

Pri. I = 157 Ma.

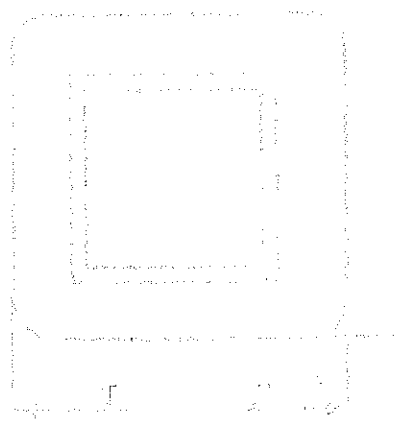
Winding	Pri.		Sec.				
Mean Turn	4.295		5.50				
Resistance 25° c	47.5		.0528				
Pounds Copper	.088		.102				
Copper Density	507		517				
Ratio Volts	115		2.56				
Test to Ground	1250		1000				

Iron Induction 12.15 @ 50 Cycles

Exciting Current 39 milli amperes @ 115 volts 60 cycles on 1-2

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

Remarks:



FILAMENT

STOCK

120 volts @ 50/60 cycles to
 6.3 volts CT @ 1.0 Amps
 750 volts working

SPEC. NO. F759

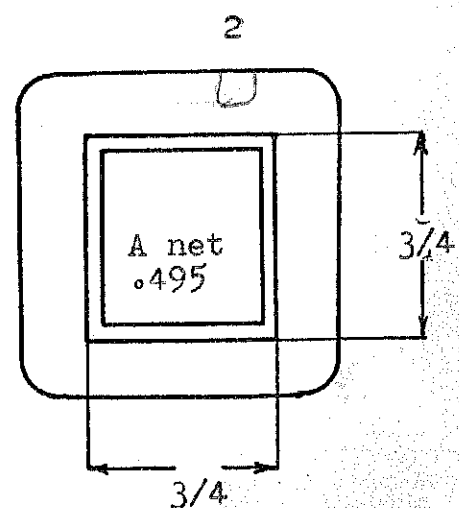
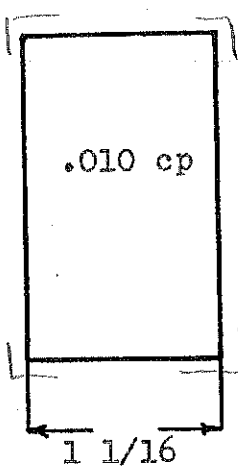
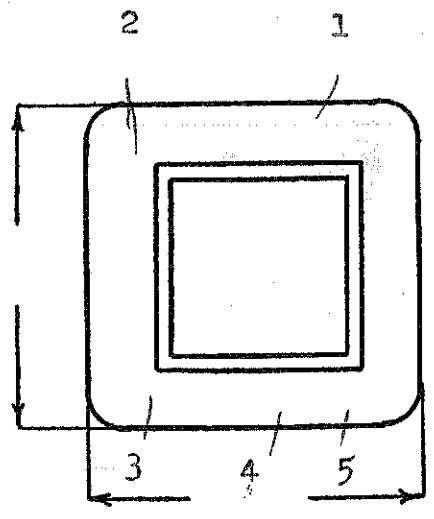
Winding	1-2 = Pri.		3-4-5 Fil.			
Turns	1280		80		SINGLE WIND	
Taps	--		40			
Wind. Lgth.	7/8		3/4			
Wire Size	#33		#23			
T. P. L.	99-13L		27-3L			
Finish	88%		86%			
Type Lead	Silver Braid to Lugs		W.O. to Lugs			
Lead Lgth.	3"		3"			
Layer Insul.	20#		1L005GA			
Test Volt.	1500		2500			
Wrapper	2L005GA		2L005GA			

TUBE	5L007GK	IMPREGNATION	Varnish
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CORE	3/4 x 3/4	GA.	24	GRADE	D	STACK	2 x 2
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MOUNTING D - Lugs

T. P. V. - 10.6
 Window - $2659 / 375 = 71\%$



DESIGNED BY S. W. B.

DATE 3/31-47

DESIGN AND TEST DATA

Rating:

Sec. VA = 6.3
 Pri. VA = 9.9
 Ip = 83 Ma.

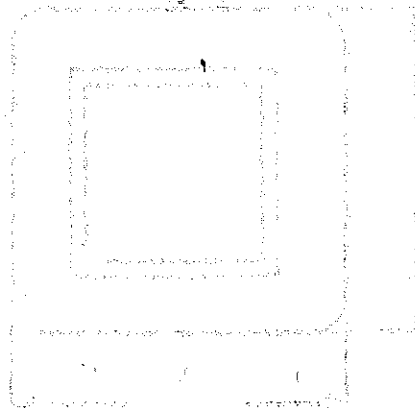
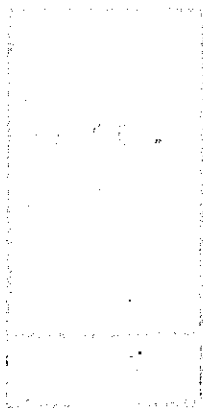
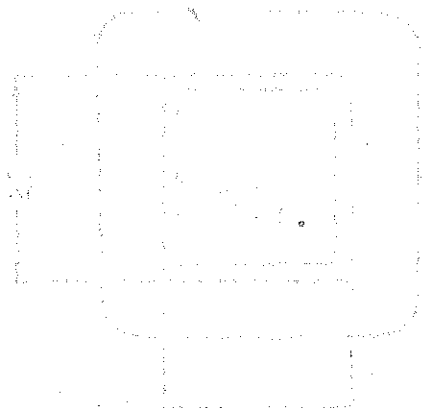
Winding		1-2 Pri.			3-4-5 Fil.		
Mean Turn		3.69			4.60		
Resistance 25° c		83.0			.681		
Pounds Copper		.001			.051		
Copper Density		679			570		
Ratio Volts		120			7.48		
Test to Ground		1500			2500		

Iron Induction 13.2 kg @ 50 Cycles

Exciting Current 39 Milli amperes @ 120 volts 60 cycles on 1-2

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

Remarks:



FILAMENT

STOCK

115 volts @ 50/60 cycles

2.5 volts CT @ 5 Amps

SPEC. NO. F758

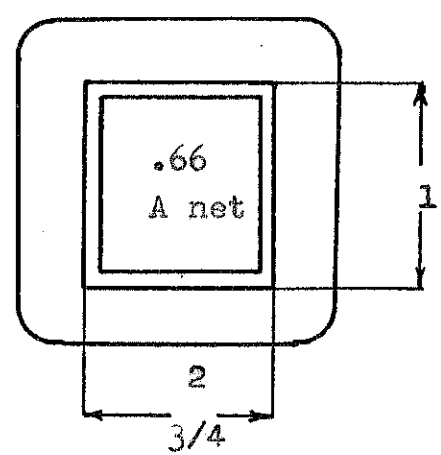
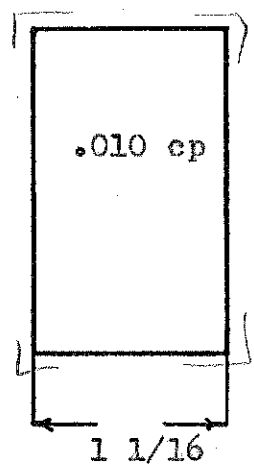
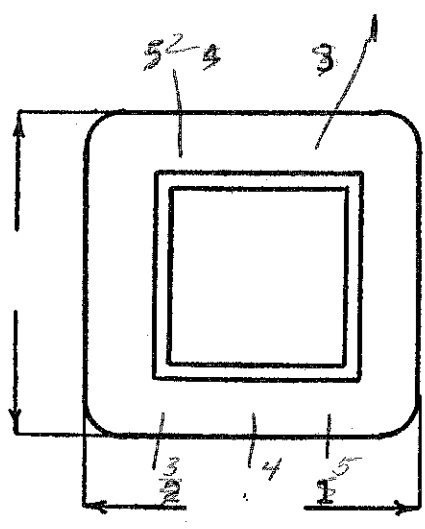
Winding	1-2 Pri.	3-4-5 Sec.				
Turns	1000	26				
Taps	--	13				
Wind. Lgth.	7/8"	3/4"				
Wire Size	#31	#16				
T. P. L.	77-13L	13-2L				
Finish	85%	91%				
Type Lead	Silver Braid	W.O.				
Lead Lgth.	3"	3"				
Layer Insul.	30#	1L007GA				
Test Volt.	1250	2500				
Wrapper	3L005GA	3L005GA				

TUBE 5L007GK IMPREGNATION

CORE 3/4 x 1 GA. 24 GRADE STACK

MOUNTING D Use Super Lugs Square T

T. P. V. — 8.7
 Window — $330/375 = 88\%$



DESIGNED BY S. W. B.

DATE 5-10-47

DESIGN AND TEST DATA

Rating:

Sec. VA = 12.5

Pri. VA = 18

Pri. I = 157 Ma.

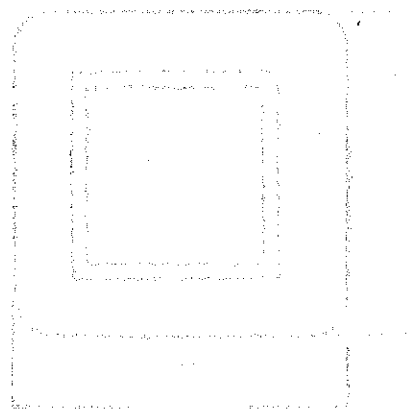
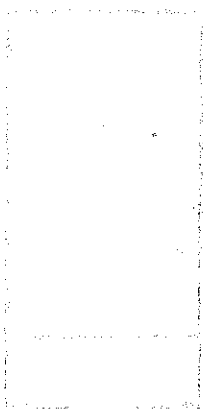
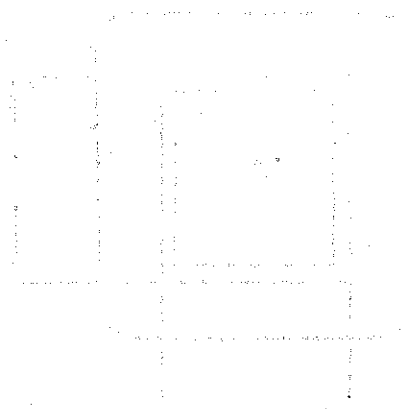
Winding	Pri.	Sec.				
Mean Turn	4.295	5.50				
Resistance 25° c	47.5	.0528				
Pounds Copper	.088	.102				
Copper Density	507	517				
Ratio Volts	115	2.56				
Test to Ground	1250	1000				

Iron Induction 12.15 @ 50 Cycles

Exciting Current 39 milliamperes @ 115 volts 60 cycles on 1-2

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

Remarks:



Filament

230V @ 50/60 Hz to
 5V @ 3 Amps
 6.3Vct @ 4 Amps

Ewing - Mc Donald, Inc

SPEC. NO. F 757-230V

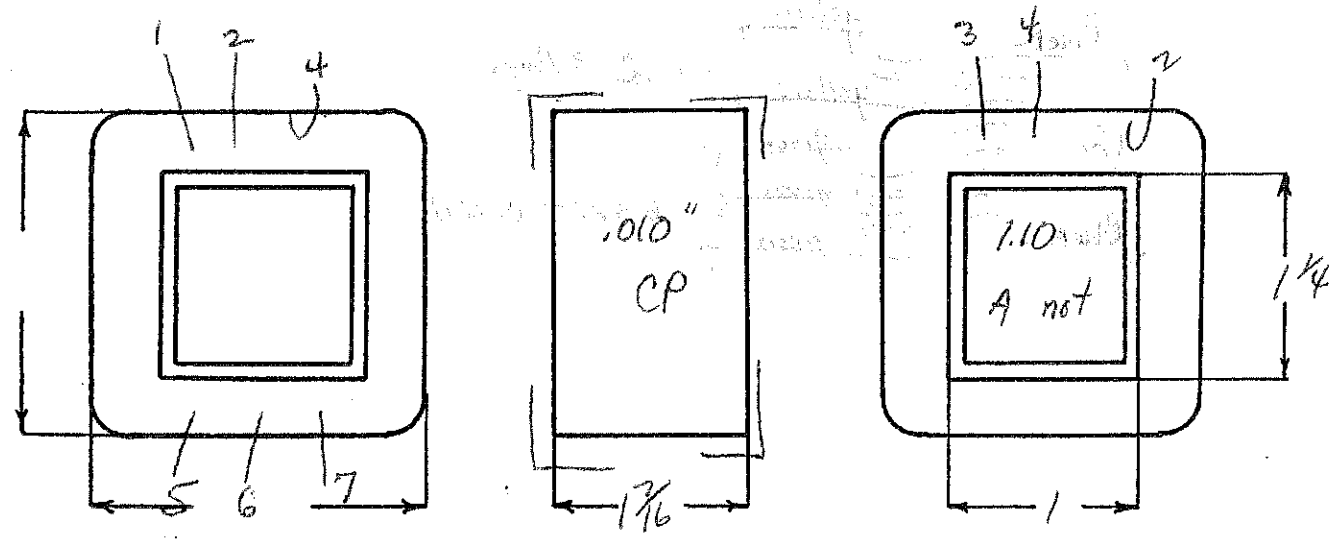
Winding	1-2 Pri		3-4 Fil 1		5-6-7 Fil #2		
Turns	1206		30		38		
Taps	—		—		19		
Wind. Lgth.	1 1/4		1 1/4		1 1/4		
Wire Size	#29		#18		#17		
T. P. L.	94-13L		28-1L		19-2L		
Finish	90%		93%		85%		
Type Lead	#22 PB		W.O. yellow sleeve		W.O. green sleeve		
Lead Lgth.	cut 12"		cut 12"		cut 12"		
Layer Insul.	40#		40#		1L005GA		
Test Volt.	1250		2500		2500		
Wrapper	3L005GA		3L005GA		3L005GA		

TUBE 7L007GK IMPREGNATION Varnish-DOUBLE

CORE 1x1 1/4 GA. 24 GRADE D STACK 2x2

MOUNTING AA

TPV - 5.25
 Window $-.416 / .500 = 83.2\%$



DESIGNED BY

DATE

DESIGN AND TEST DATA

Rating:

Sec VA = 40.2
Pri VA = 53.5
I_p = 285 MA.

Winding	Pri	Fil #1	Fil #2		
Mean Turn	5.5	6.53	7.15		
Resistance 25° c	21.5	.11	.122		
Pounds Copper	.214	.089	.149		
Copper Density	546	542	513		
Ratio Volts	230	5.11	6.4		
Test to Ground	1250	2500	2500		

Iron Induction 12.1 Kg @ 50 Cycles

Exciting Current 71 m. amperes @ 230 volts 60 cycles on 1-2

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

Remarks:

