

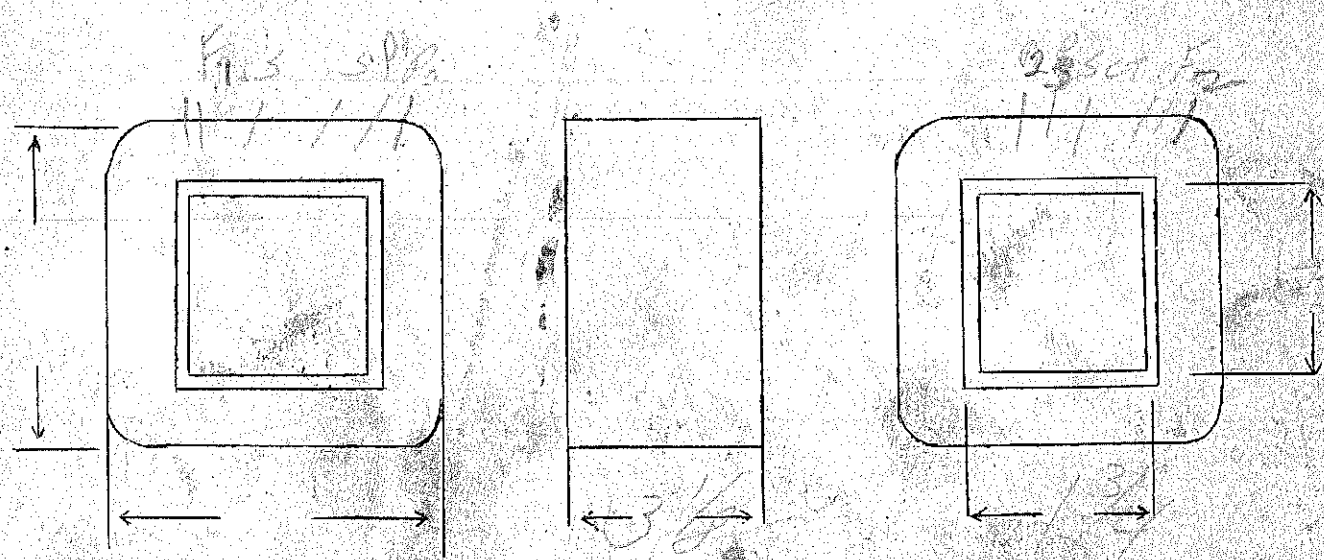
Ep-110-125 advance 105-115-125
 E3-2500V.C.T-400ma-
 EK-2.5V-10amp
 EF-10V.C.T-7amp

SPEC. NO. 3605

Winding	SEC	PRM				
Turns	3900	175	4	16		
Taps	1950	161-148		8		
Wind. Lgth.	2 5/8					
Wire Size	#27	#14	#13	#14		
T.P.L.	150-26	36-5				
Kind Term.	WIRE	ONLT				
Term. Lgth.	1 1/2	6	6	6		
Layer Insul.	307	107K	1			
Test Volt.			5000V	2500V		
Wrapper	3605GA	3605GA	3605GA			

TUBE 96007 F1007VC IMPREGNATION VAPORESH
 CORE 1/4" x 1/4" PRIMARY V.A.
 MOUNTING Unwind - special brackets (over) all leads to be

don't start lead in coil F1=23V F2=113V
 Mary J. [unclear]



DESIGNED BY gwo DATE 11/1/59

running under

115 - 24V - 10 watt

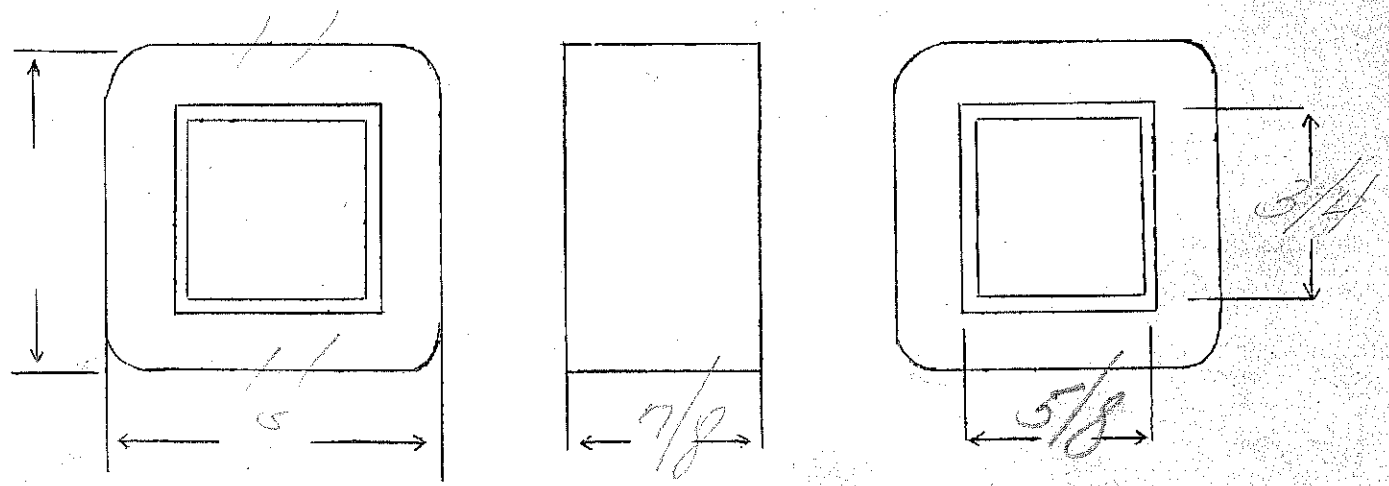
SPEC. NO.

3606

119

Winding	P	S				
Turns	1380	300				
Taps						
Wind. Lgth.	3/4	3/4				
Wire Size	34	28				
T.P.L.	98-14	50-6				
Kind Term.	#18 motor cable					
Term. Lgth.	8"	8"				
Layer Insul.	30#	40#				
Test Volt.						
Wrapper	1005VC	1005EA				

TUBE	56007	IMPREGNATION	VARNISH
CORE	4x3/4 29/32 - 2x2	PRIMARY V.A.	
MOUNTING	D-leads		



DESIGNED BY *Law*

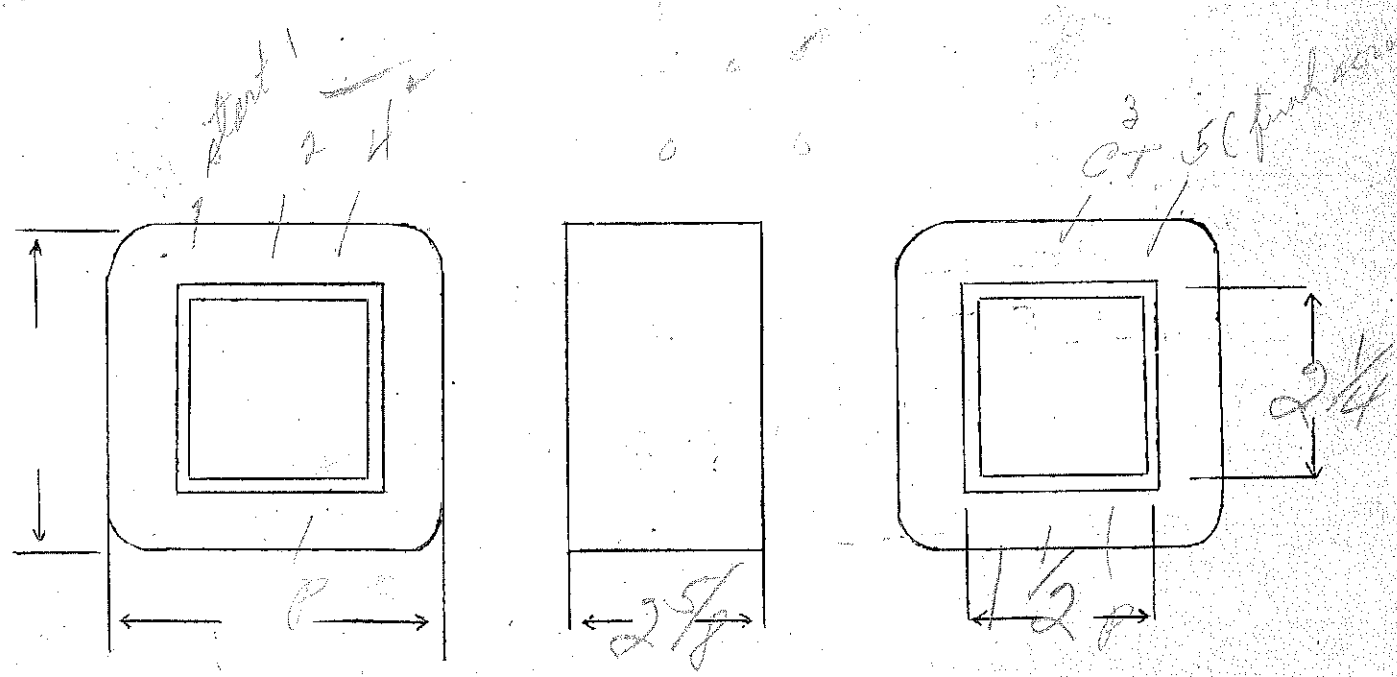
DATE 11/2/37

Capitol (similar to 4/10)

180 SPEC. NO. 3607

Winding	S	P					
Turns	4750 4225	210					
Taps	2375 475					0	0
Wind. Lgth.	25 1/16						
Wire Size	#28	#17				0	
T.P.L.	158-30					6	0
Kind Term.	WIRE ONLY						
Term. Lgth.	6"	6"					
Layer Insul.	double 30#	007K					
Test Volt.	2000VC						
Wrapper	20005GA	30005GA					
TUBE	9007+2000VC		IMPREGNATION		Varnish		
CORE					PRIMARY V.A.		
MOUNTING	G						

2642
1 } 1355
0
2



DESIGNED BY *Gweaver* DATE *7/12/37*

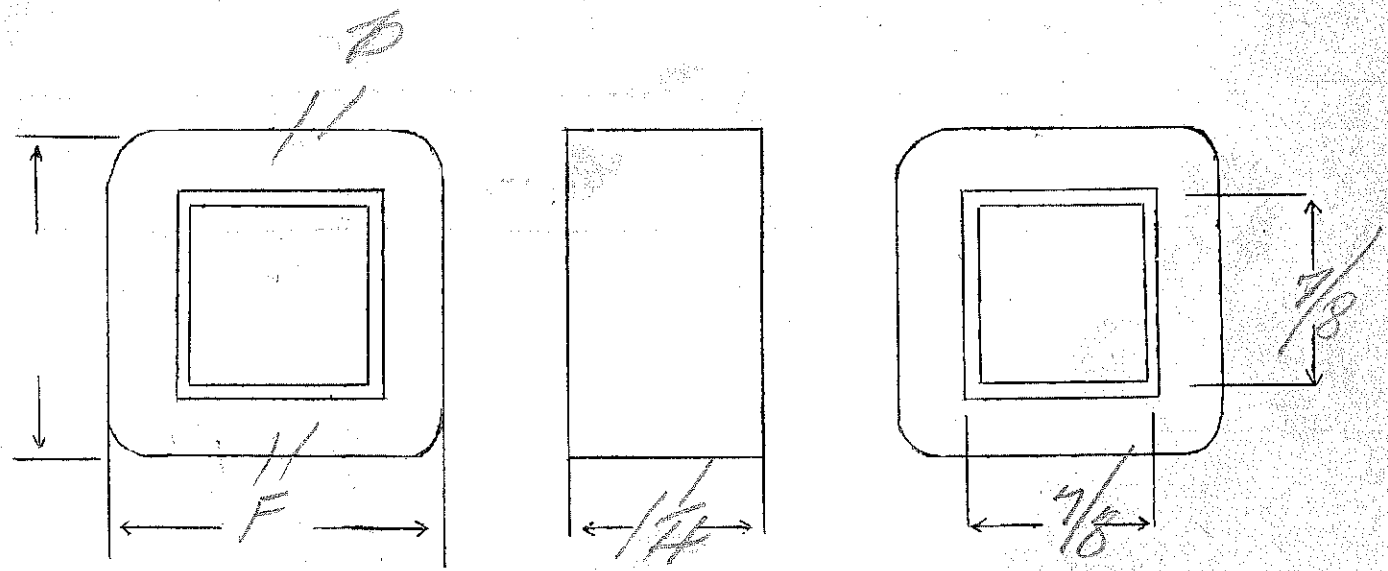
P-115

5 - 2.5V - 2amps - 10000V Dns

SPEC. NO. 3608

79

Winding	PRI	SEC					
Turns	910	23					
Taps							
Wind. Lgth.	1"						
Wire Size	#33	#20					
T.P.L.	1/6-8	4/2	wind in center of coil - 6 T.P.L.				
Kind Term.	Sil Br	W.O.					
Term. Lgth.	3 1/2	3 1/2					
Layer Insul.	40#	005					
Test Volt.	2500	10000V					
Wrapper	72007VC 210056A	42007VC 210056A					
TUBE	720074/1007VC		IMPREGNATION	VARNISH			
CORE	7/8 X 7/8 - 2 of ea		PRIMARY V.A.				
MOUNTING	D						



DESIGNED BY *gwr*

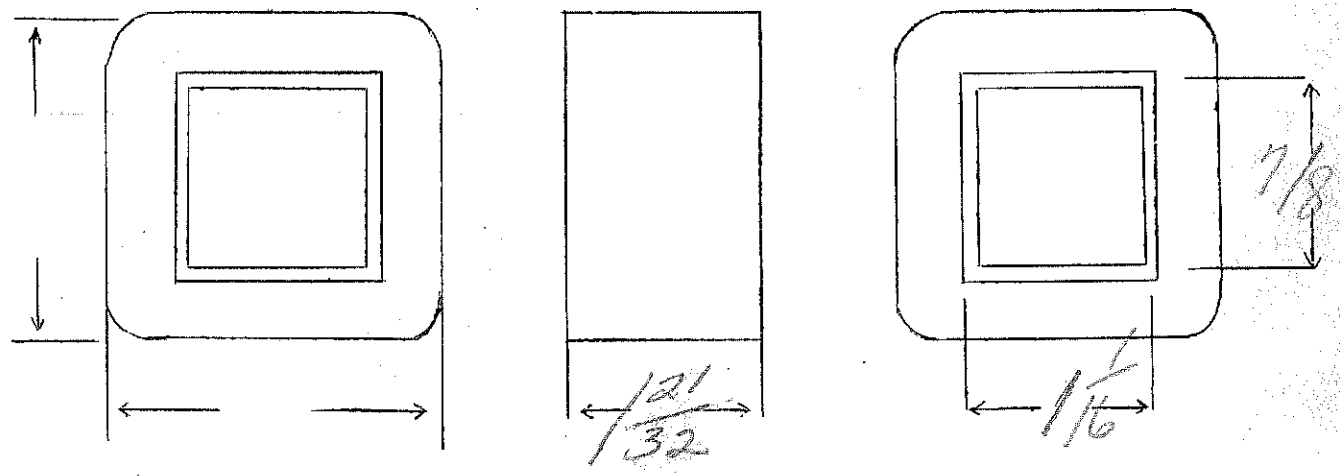
DATE 11/1/37

Ep-115
 Ef-5V-2amp
 Ef-6.3V-C.T.-2.5amp (good regulation)
 Es-500VCT-60Ma

5.95 SPEC. NO. 3609

Winding	SEC	SHIELD	PRI	F1	F2		
Turns	3300	77	685	33	40		
Taps	16.50				20		
Wind. Lgth.	1 15/32	✓	✓	✓	✓		
Wire Size	#35	#26	#26	#20	#double #20		
T.P.L.	210-16		77-9	1L	2L		
Kind Term.	#20 P/A		#20 P/A	WIRE ONLY			
Term. Lgth.	9" double	3"	9"	9"	9"		
Layer Insul.	16#		40#				
Test Volt.							
Wrapper	1007VC	1005VC	2005GA	2005GA	2005GA		
TUBE	7007	IMPREGNATION			VARNISH		
CORE	1 1/16 x 7/8	PRIMARY V.A.					
MOUNTING	A						

P 120
 F1 5.6
 F2 3.5 - 3.5
 See 295



DESIGNED BY *[Signature]*

DATE 11/1/37

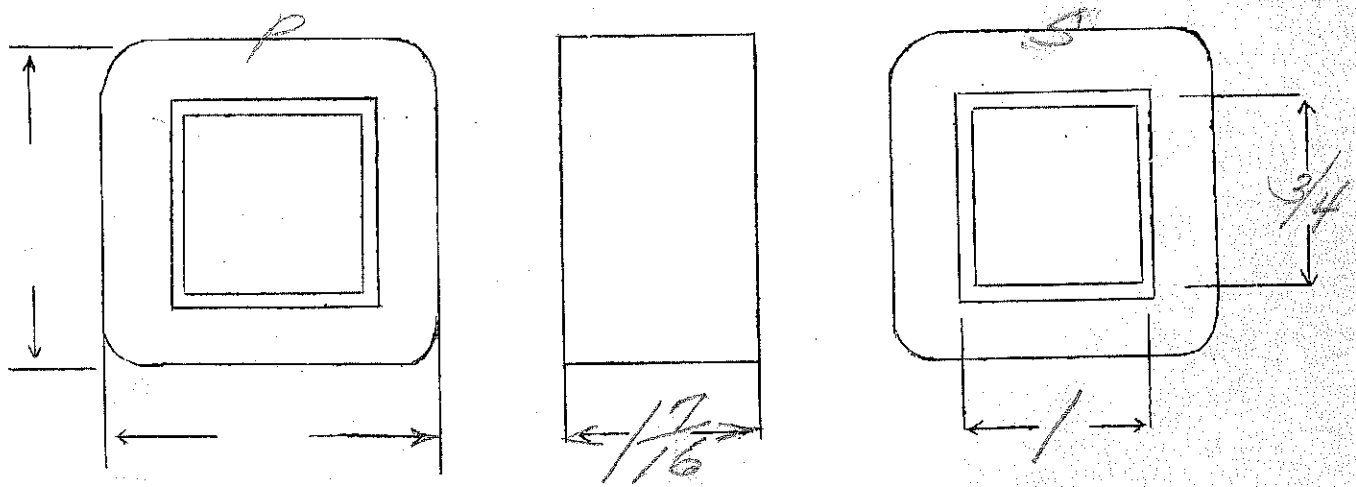
To deliver 12Vdc @ 1 1/2 amps 2400 VA transformer

Ep-115

ES-20V (open) - 1.25 amps 74

SPEC. NO. 3610

Winding	PRI	SEC					
Turns	860	173					
Taps							
Wind. Lgth.	1.25						
Wire Size	#28	#21					
T.P.L.	83-11	38-4					
Kind Term.	WIRE ONLY						
Term. Lgth.	3"	3"					
Layer Insul.	40#						
Test Volt.							
Wrapper	10056A	20056A					
TUBE	5007		IMPREGNATION	VARNISH			
CORE			PRIMARY V.A.				
MOUNTING	S						



DESIGNED BY JW

DATE 11/2/37

Ep-115V
 Es-3400VCT-250 ma

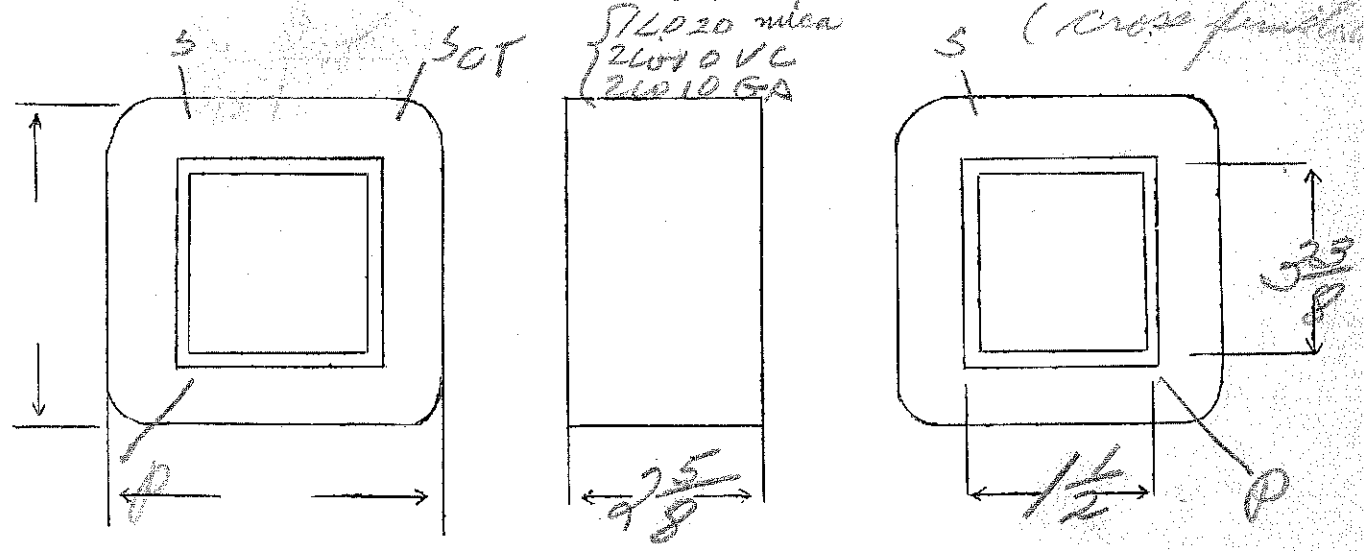
1.2

SPEC. NO. 3611

Winding	SEC	PRI				
Turns	4350	138				
Taps	2175	—				
Wind. Lgth.	2					
Wire Size	#28	#16				
T.P.L.	137-32					
Kind Term.	#20 Dulse	#18 motor cable under wrapper				
Term. Lgth.	8"	10"	Start sec lead in coil			
Layer Insul.	40# 40#	.007K				
Test Volt.	2500V					
Wrapper	3L007VC 3L005GA	3L005GA				
TUBE	9L007+21007VC		IMPREGNATION	VARNISH		
CORE	1/2 x 3 3/8		PRIMARY V.A.			
MOUNTING	unpaced - upright mounting					

Careful of margins

keep leads off end of coils - heavy finishing for
 2000V working -



DESIGNED BY *Gweaver* DATE 11/3/37

Ep - 12V CT or 120V ac
 Es - 800V CT 150ma

KARR

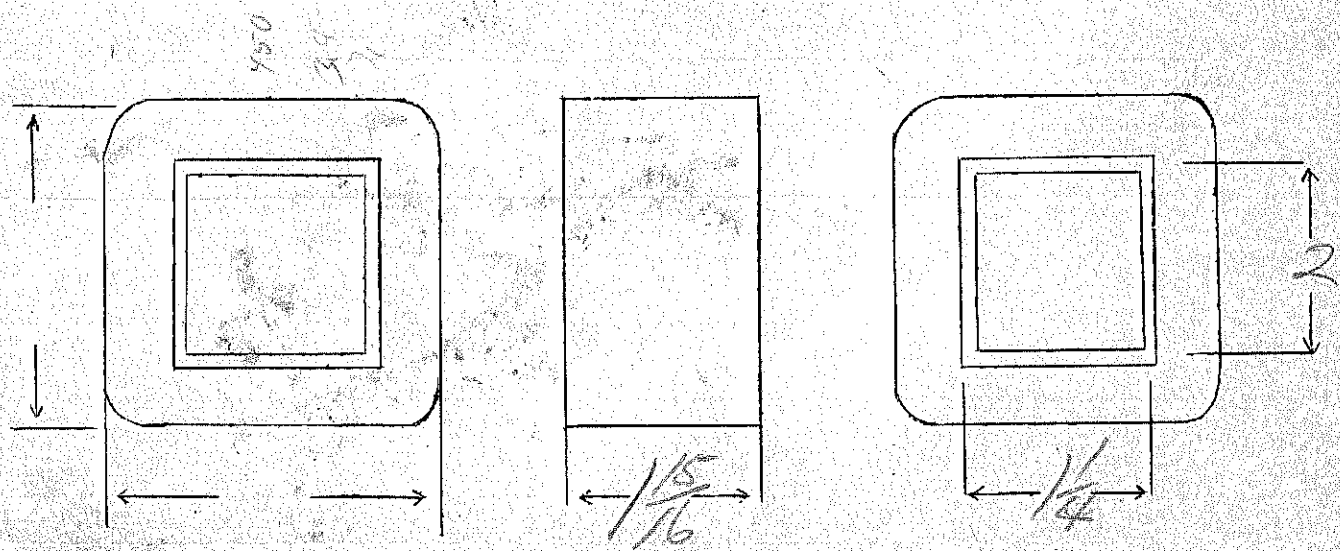
W. H. ...

Ep - 5V - 3amp Es - 6.3V - 3.5amp

SPEC. NO. 3612

Winding	PR1	SHIELD	SEC	SHIELD	PR1	F1	F2
Turns	300	1	2200	1	24	14	17
Taps			1100		12		
Wind. Lgth.	1.75		1.75				
Wire Size	#22	shim stock	#30	shim stock	#13	#17	double #20
T.P.L.	60.5	8 3/8	140-16				
Kind Term.	#20 PCB		#20 PCB		WIRES	ON CT	
Term. Lgth.	9"		9"		9"	9"	9"
Layer Insul.	30#		double 16#				
Test Volt.							
Wrapper	2007VC	2007VC	2007VC	20075A	20076A		20076A
TUBE	7007				IMPREGNATION	Vapor wash	
CORE	1 1/4 X 2					PRIMARY V.A.	
MOUNTING	A						

heavy finishing - 2000V peaks



SIGNED BY

[Signature]

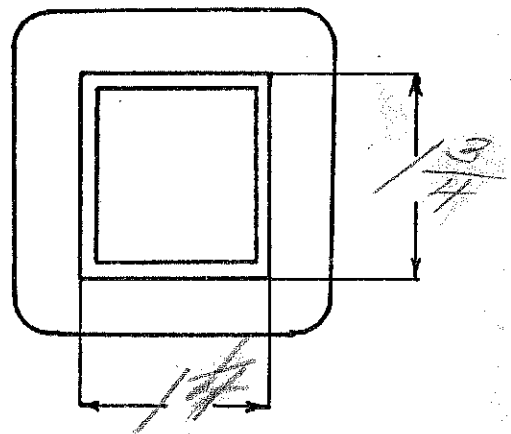
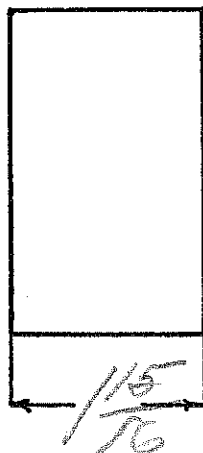
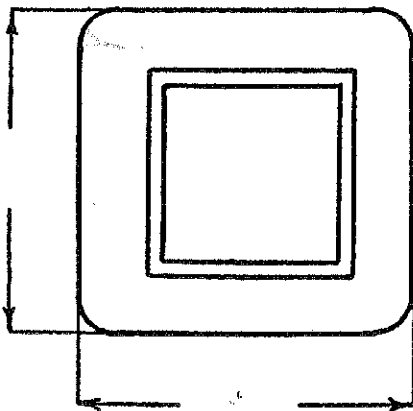
DATE

11/3/27

1/4 - 50amps

SPEC. NO. 3613

Winding	PR1					
Turns	216					
Taps						
Wind. Lgth.	1.75					
Wire Size	#15					
T. P. L.	27-8					
Finish	W.O					
Type Lead						
Lead Lgth.	6"					
Layer Insul.	007K					
Test Volt.	5000					
Wrapper	26007VC 26007BA					
TUBE	26007 + 26007 VC		IMPREGNATION	VARNISH		
CORE	1/4 x 1/4	GA. 24	GRADE 9	STACK, 0.15		
MOUNTING	F					



DESIGNED BY

Sw

DATE

11/3/37

EP-115
E 3-495V-15 ma.

10.3

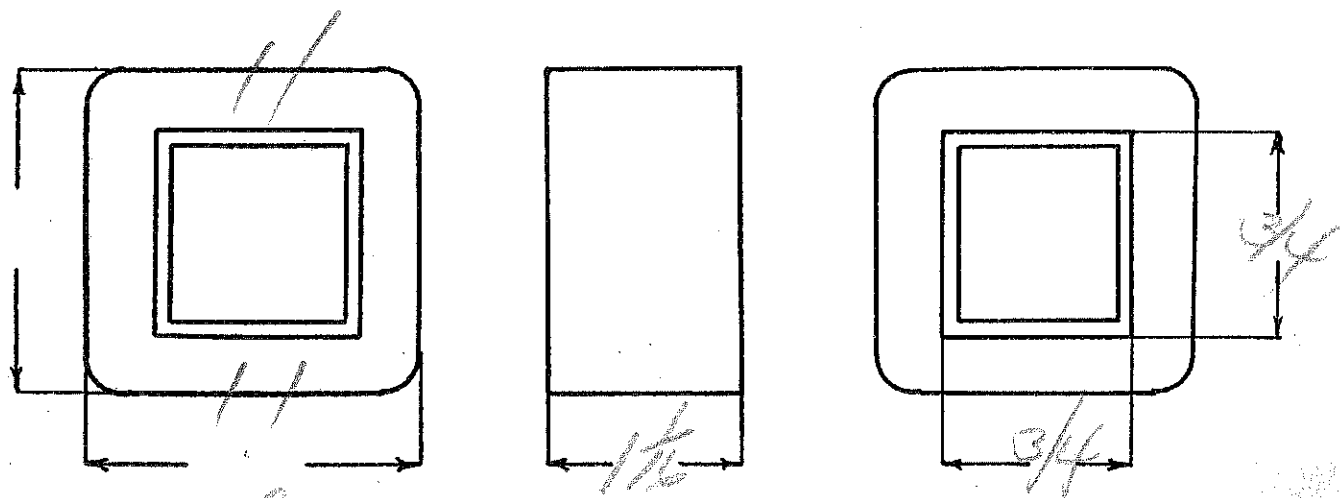
SPEC. NO. 3614

Winding	SEC	PR1					
Turns	5500	1180					
Taps	-	-					
Wind. Lgth.	7/8	7/8					
Wire Size	#39	#32					
T. P. L.	200-28	91-13					
Finish	#20 P. 09	PW					
Type Lead							
Lead Lgth.	9"	9"					
Layer Insul.	30#	30#					
Test Volt.	2500V	1250					
Wrapper	1/40 MC	2/100 SGA					

TUBE 51007 IMPREGNATION Varnish

CORE 3/4 x 3/4 GA. 24 GRADE D STACK 2x2

MOUNTING D



DESIGNED BY *[Signature]*

DATE 11/15/37

Ep - 230V
 Es - 600VCT-100MA
 Ef - 5V-3amp

Ef - 2.5V-6amp CT.

395

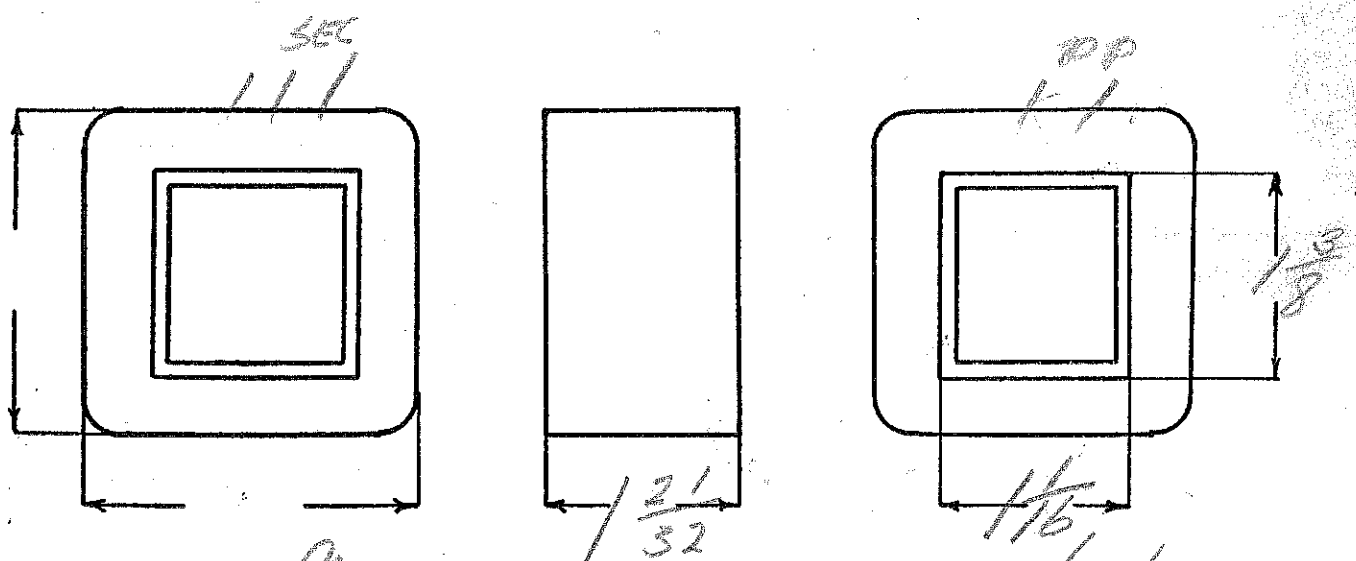
SPEC. NO. 3615-230V

Winding	SEC	SHIELD	PRI	F1	F3		
Turns	2580	78	910	22	11		
Taps	1290						
Wind. Lgth.	1 15/32						
Wire Size	#33	#26	#26	#18	#18		
T. P. L.	166-16		78-12				
Finish	#20 DIN B		#20 DIN B		WIRE ONLY		
Type Lead							
Lead Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	double 16#		40#				
Test Volt.							
Wrapper	1L007VC	1L007VC	2L005GA	2L005GA	2L005GA		

TUBE 7L007 IMPREGNATION VARNISH

CORE GA. GRADE STACK

MOUNTING A



DESIGNED BY *Jaw*

DATE 11/15/37

1/2 KVA - 2400/230V step down transformer

11

SPEC. NO. 3616

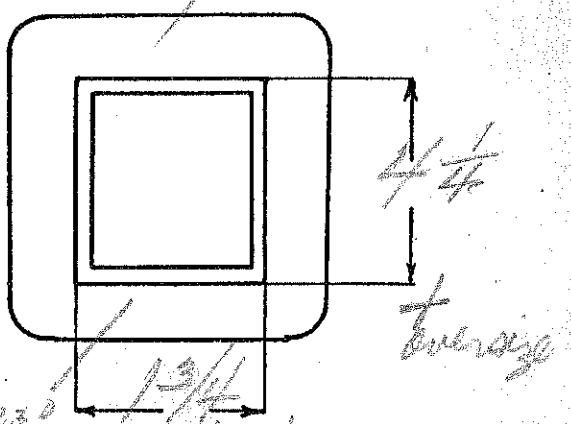
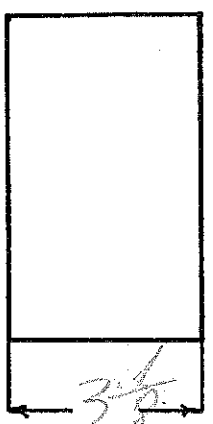
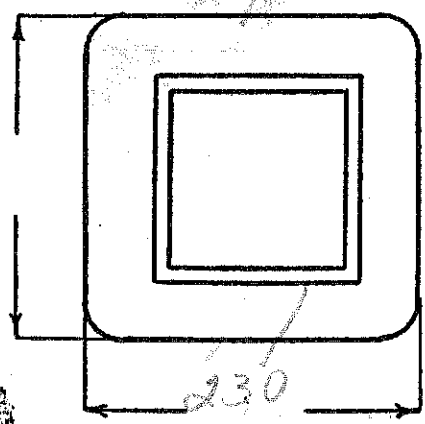
Winding	PRI	SEC			
Turns	2640	266			
Taps					
Wind. Lgth.	2"	2 1/4" ←			
Wire Size	#26	#6			
T. P. L.	107-25	7L	light winding		
Finish	WIPE ONLY				
Type Lead					
Lead Lgth.	6"	6"			
Layer Insul.	50#	007K			
Test Volt.	1000V	2500V			
Wrapper	21007VC 31005GA	11007VC 21005GA			Double

TUBE 11007H 3007VC IMPREGNATION 230V

CORE GA. GRADE STACK 2x2

MOUNTING G - to be mounted in special metal box

use 1/16" fibre ends in stacking
use stand-off insulators on primary



DESIGNED BY R. Weaver

DATE 11/8/37

P-
 250
 245
 230
 220
 200

High
 Low

$\frac{N}{E} = 7$

SPEC. NO. 3617

Winding	Continuous					
	PRI			SEC		
Turns	800	945		140		
		875				
Taps		800-735-595				
Wind. Lgth.	5 1/2			2"		
Wire Size	#25	#21		#13		
T. P. L.	250	168		24-6		
Finish	267					
Type Lead	#20 Pwr			WIRE ONLY	Sliding	
Lead Lgth.	18"	18"		18"		
Layer Insul.	007K	007K				
Test Volt.						
Wrapper		25L-007K 56L-007K		210058A		

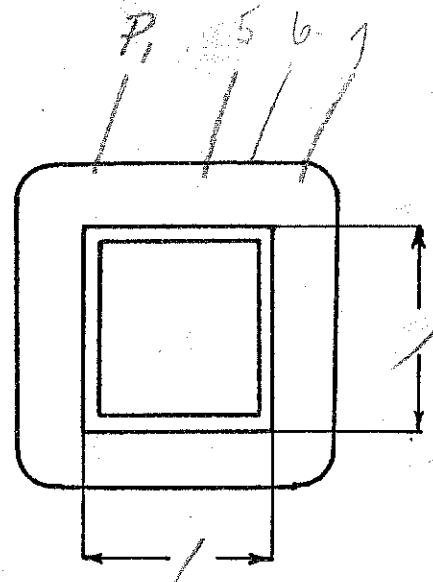
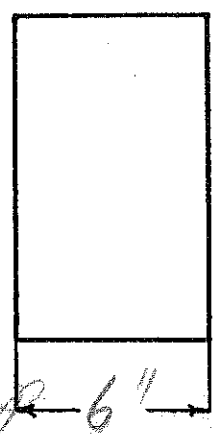
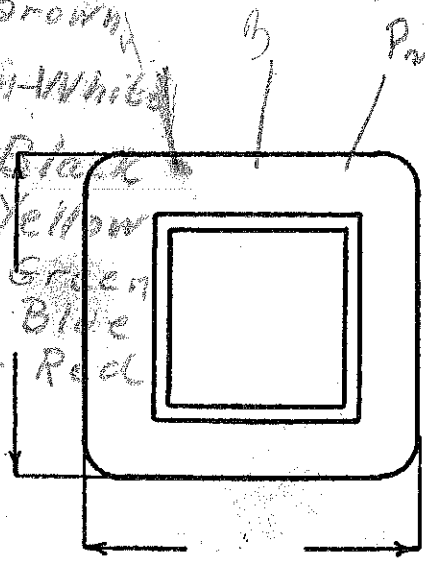
TUBE 10L007 IMPREGNATION VARNISH

CORE GA. GRADE STACK

MOUNTING none

strips 7x1", 5 1/2 x 1"

- Low-Brown
- Common-White
- 200 - Black
- 220 - Yellow
- 230 - Green
- 240 - Blue
- 250 - Red



DESIGNED BY

S-3 1/2

DATE

Kp-120-195

E3-2500V-300ma

Continuous 123

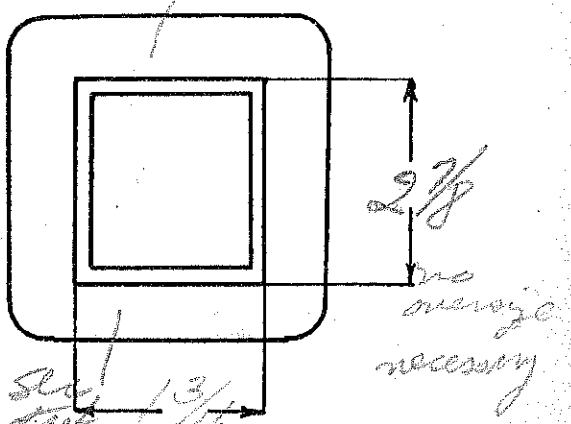
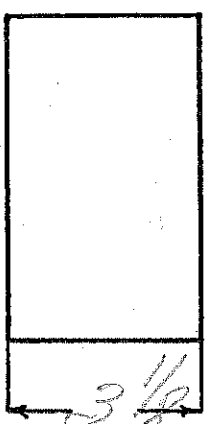
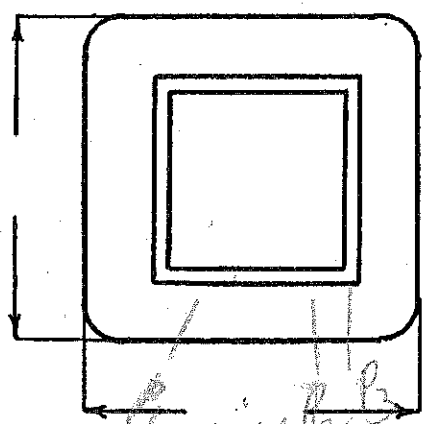
SPEC. NO. 3618

Winding	SEC	PRI				
Turns	3200	148	88			
Taps	—	—	—			
Wind. Lgth.	2 1/2	2.75				
Wire Size	#26	#13	#18			
T. P. L.	134-24	4.4L	1.6L			
Finish				start w.c. - ground to core		
Type Lead		WIRE ONLY		finish #20 Dulac - 18"		
Lead Lgth.		3"	3"			
Layer Insul.	double 50#	0072				
Test Volt.	7500	before grounding				
Wrapper	3L007K 2L005GA		2L005GA 1L010RF			

TUBE 10L007+1L007V.C. IMPREGNATION VARNISH

CORE 1-3/4x2 7/8 GA. GRADE STACK

MOUNTING C-open - twisted metal keris frame - long bolts



DESIGNED BY [Signature]

see finish
start 1 3/4
DATE 11/10/37

EP-110-115-125
 ES-140009 900 VOT-300M9
 EF-5VOT-6amp

N/E = 2.1

SPEC. NO. 3619

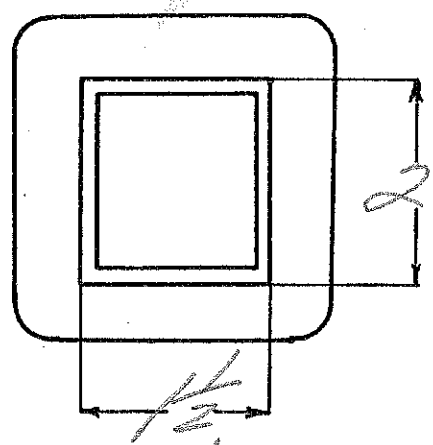
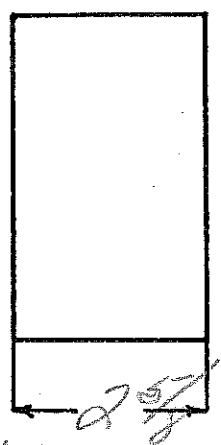
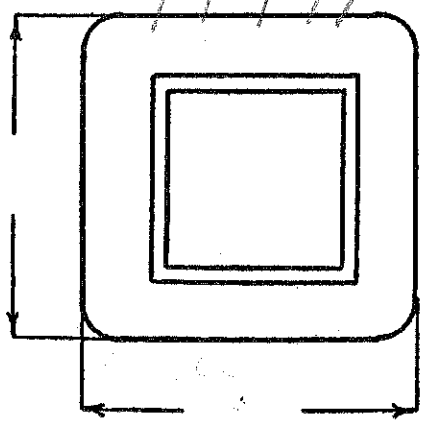
Winding	SEC	SHIELD	PR1	FLK		
Turns	3200 2620	145	2630 2420	12		
Taps	1600 580		2320	6		
Wind. Lgth.	2 3/8	✓	white			
Wire Size	#27	#27	#18	#18		
T. P. L.	145		6L			
Finish						
Type Lead	#70 Dulac	NO.	WIRE ONLY	✓		
Lead Lgth.	9"	3"	9"	9"		
Layer Insul.	double 30 #		007K			
Test Volt.	3500V					
Wrapper	21007VC	21005GA	31005GA	31005CA		

TUBE 91007-11007VC IMPREGNATION Varnish

CORE GA. GRADE STACK

MOUNTING SA - Very bolts - Black

Spiral sec - double paper at spirals heavy finishing
 S₁ S₂ S₃ S₄
 C.T. Blue
 900 - white
 1400 - Red
 PR1



DESIGNED BY *G. Weaver*

DATE 11/9/37

EP-110-1150
 EF1 - 6.3 VCT-3amp
 EF2 - 6.3VCT-3amp

64

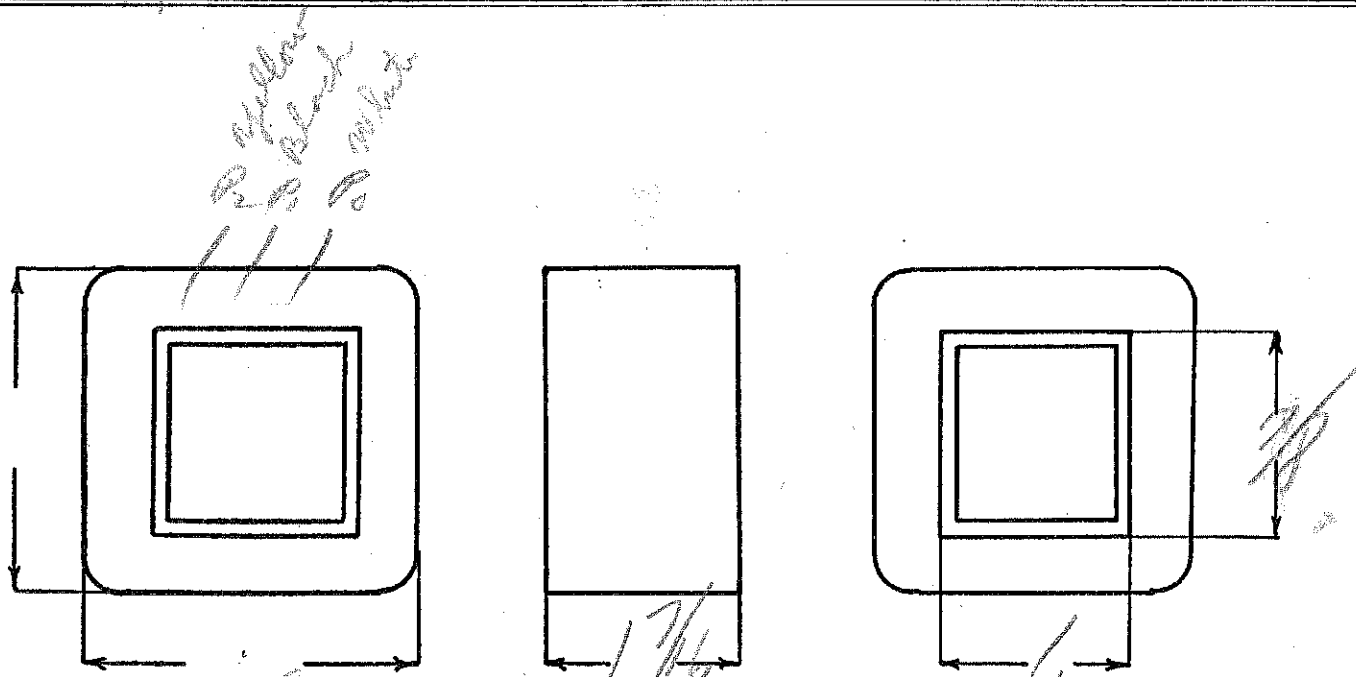
SPEC. NO. 3620

Winding	P	F	F				
Turns	740	45	48				
Taps	705	23	23				
Wind. Lgth.	1.25						
Wire Size	#27	#18	#18				
T. P. L.	24-11	22	22				
Finish	#20 22-11	WIRE ONLY					
Type Lead							
Lead Lgth.	9"	9"	9"				
Layer Insul.	40#						
Test Volt.		1250					
Wrapper	210059	210059	210059A				

TUBE 5007 IMPREGNATION Varnish

CORE 1x7/8 GA. GRADE STACK

MOUNTING A



DESIGNED BY *Sw*

DATE 11/13/37

to control 205
 taped 124-115-106-96-87-77-67V - 200V/mf

SPEC. NO. 3621

2.6

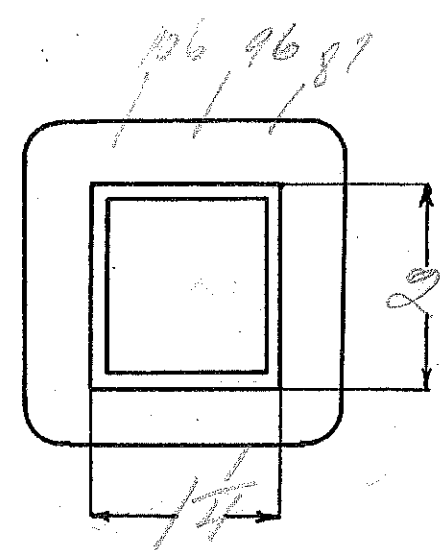
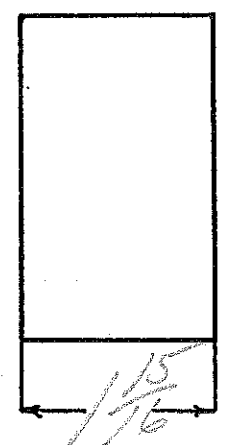
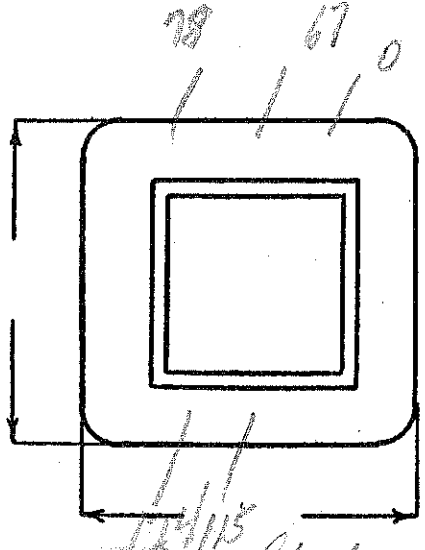
Winding							
Turns	175	50	52	46			
Taps		25	26	23			
Wind. Lgth.	1.75						
Wire Size	#19	#18	#16	#14			
T. P. L.							
Finish	WIRE ONLY						
Type Lead							
Lead Lgth.	4"	4"	4"	4"			
Layer Insul.	.007	K					
Test Volt.							
Wrapper				20076A			

TUBE	9L007	IMPREGNATION	Varnish
------	-------	--------------	---------

CORE	GA.	GRADE	STACK
------	-----	-------	-------

MOUNTING	F
----------	---

0- 4- 7
 1- 5- 8- 12-9
 2- 6-
 3-

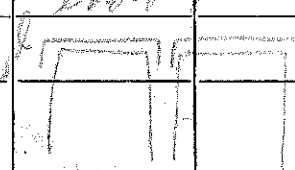


DESIGNED BY *glw*

DATE 11/10/37

Ep 115V
 ES-12500 V 10 ma - 75000 V test in oil

SPEC. NO. 3622

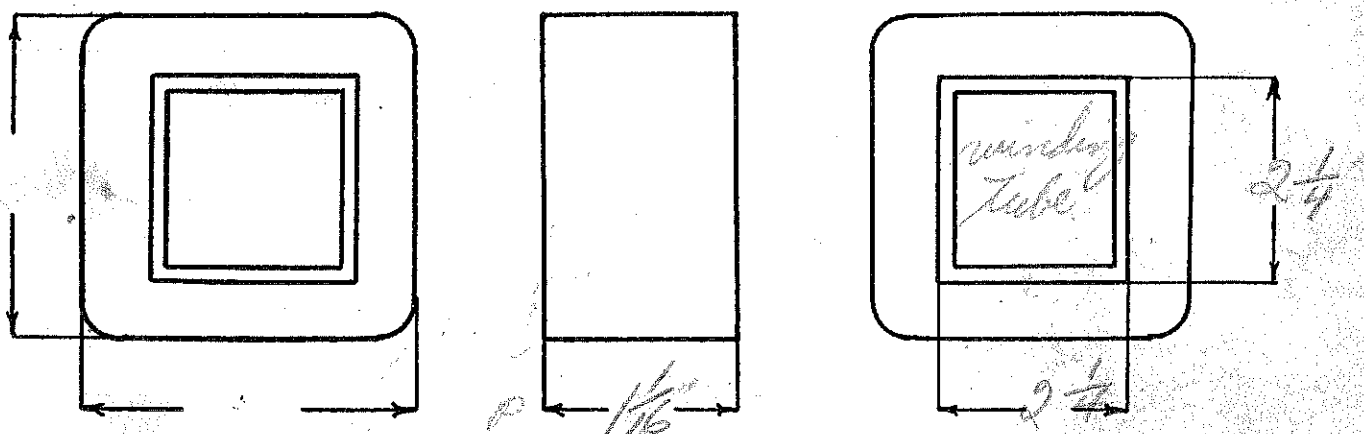
Winding	P	S				
Turns	195	11,000				
Taps						
Wind. Lgth.		5/8				
Wire Size	#17	#39	Cut coils with 1/2" margin outside			
T. P. L.		140-79	1/4" margin other side			
Finish			spiral first and last four layers			
Type Lead	WIRE ONLY		start sec. lead in coil			
Lead Lgth.	9"					
Layer Insul.		double 30#	end papers - 4L .020 mica			
Test Volt.			5L .020 amite			
Wrapper		4L007VC 4L0056A				

TUBE 10L007+10L007VC IMPREGNATION

CORE 2x2 GA. 24 GRADE I STACK 2x2

MOUNTING uncased

make tube 2x2 - 10L 020 ^{grid} to fit inside winding tubes before stacking (OVER)



DESIGNED BY

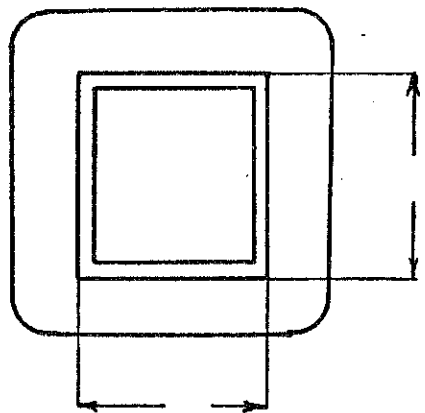
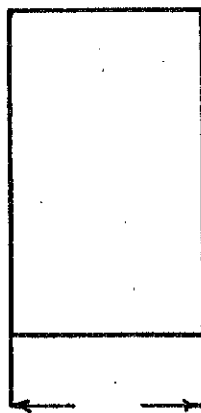
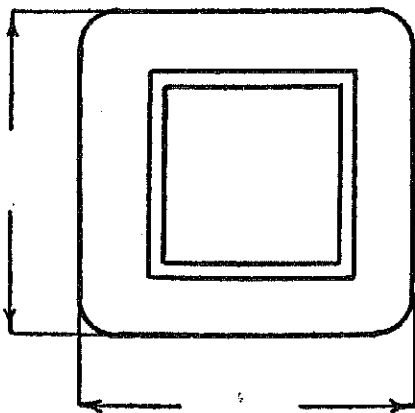
S-138

DATE

SCHIRESON

SPEC. NO. 3623

Winding							
Turns							
Taps							
Wind. Lgth.							
Wire Size							
T. P. L.							
Finish							
Type Lead							
Lead Lgth.							
Layer Insul.							
Test Volt.							
Wrapper							
TUBE				IMPREGNATION			
CORE	GA.	GRADE		STACK			
MOUNTING	A						



DESIGNED BY

DATE

EF - 115V
 EF - 5V - 2amp
 EF - 63V - 17amp

E3 - 650VCT - 40ma
 tap 50V center
 545

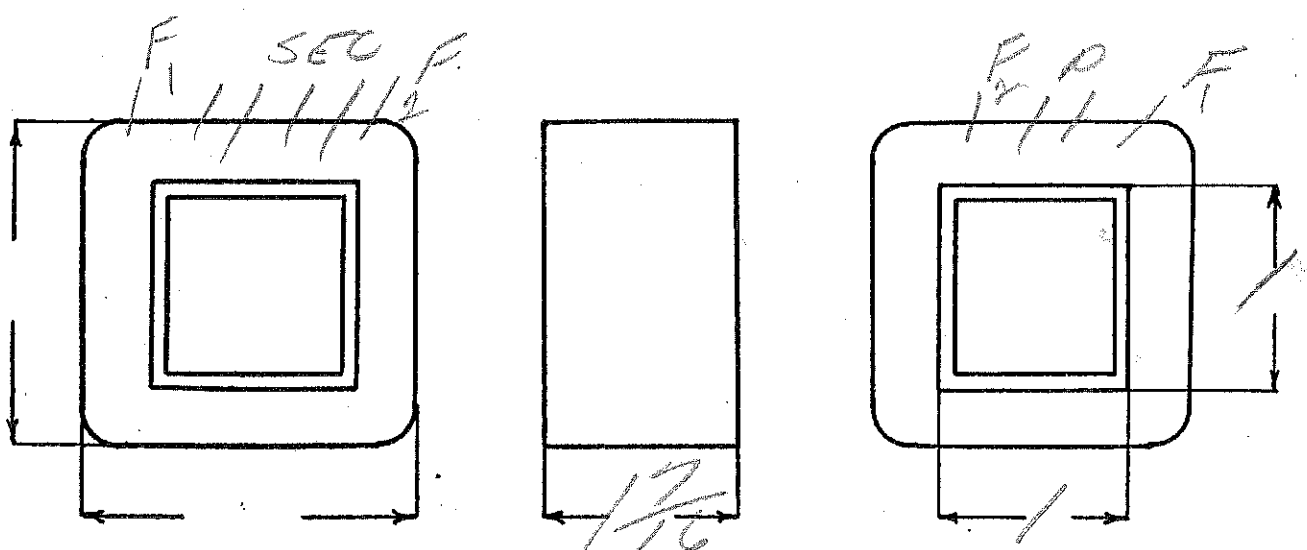
SPEC. NO. 3624

Winding	SEC	SHIELD	PR1	F ₁	F ₂		
Turns	3800 2200		630	31	38		
Taps	1900						
Wind. Lgth.	1.25	L	L	L	L		
Wire Size	#37	#27	#27	#21	#21		
T. P. L.	225		74-9				
Finish	SilM		WIRE OVER				
Type Lead							
Lead Lgth.	3"						
Layer Insul.	#16		40#				
Test Volt.							
Wrapper	16007UC	16007UC	260056A	260056A	260056A		

TUBE	5607	IMPREGNATION	Varnish
------	------	--------------	---------

CORE	GA.	GRADE	STACK
------	-----	-------	-------

MOUNTING B



DESIGNED BY *G. Swann*

DATE 11/9/37

SPEC. NO. 3625

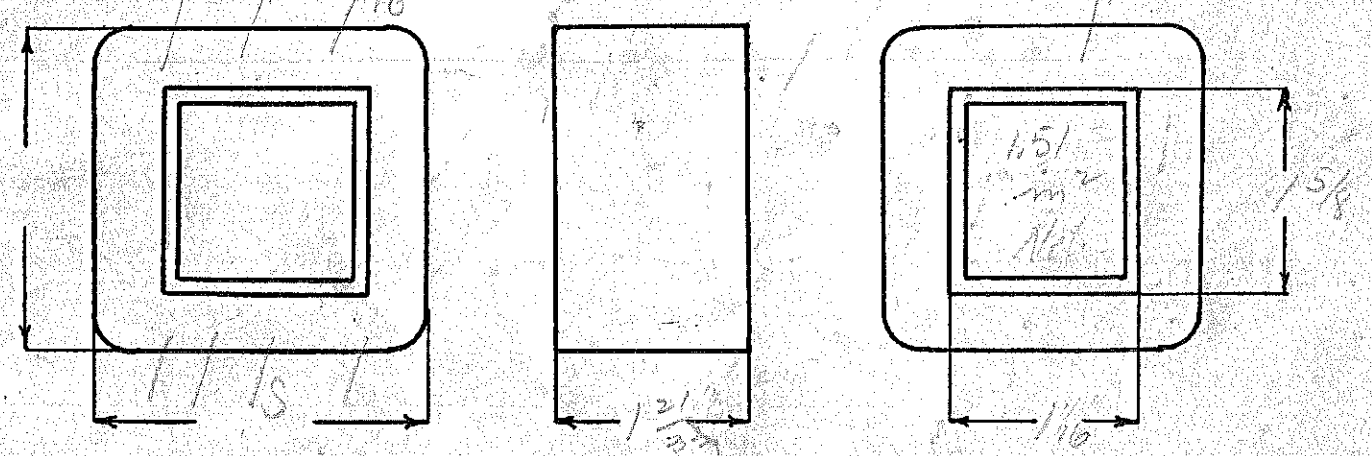
Winding	Pri				
Turns	437		144	2 (8%)	
Taps	365-400		06-120		
Wind. Lgth.	$\frac{15}{32}$		$\frac{17}{32}$	= 1.408	
Wire Size	#22		#19		
T. P. L.	50-10W		36-21W		
Finish	P/100 90%		92%		
Type Lead	1/2" P/100		1/2" P/100		
Lead Lgth.	9"		9"		
Layer Insul.	12 5046		12 007 K		
Test Volt.	1250				
Wrapper	24 005 GA		24 005 GA		Dip lead in oil

TUBE	72-007" GK	IMPREGNATION	Varnish
------	------------	--------------	---------

CORE	1 1/16 x 1 5/8" Ex I GA.	GRADE	D	STACK	24
------	--------------------------	-------	---	-------	----

MOUNTING AA - Leads -

Co = 668 - 643
 Fe = 681.3
 TPV = 3.64
 Wire Net = 0.500" (0.473")
 See VA = 72
 Pri VA = 96
 Pri I = 460 mA
 $\eta = 83\%$
 COS $\theta = 90\%$



DESIGNED BY G. W. DATE 11-9-37
 Copied, MWS - 7-18-41.

Ep - 100-110-120
 Es - 600VCT-45 ma
 F - 5V - 2 amp
 F - 6.3V - 1.5 amp

Conservative rating - 24 hr. period
 ELECTRICAL RESEARCH PROD.

SPEC. NO. 3626

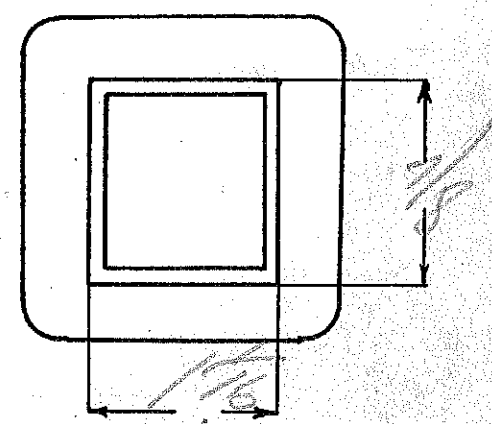
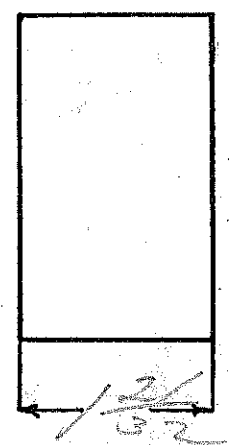
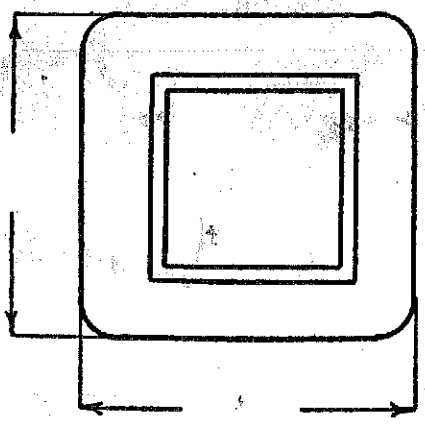
Winding	SEC SHIELD	DR1	6.20 green	DR2		
Turns	3900	70	745	34	43	
Taps	1950		682 625	✓	✓	
Wind. Lgth.	115/32		✓	✓	✓	
Wire Size	#35	#25	#25	#20	#20	
T. P. L.	215-18		70-11			
Finish						
Type Lead	#20 2 pr		#20 2 pr	WIRES ONLY		
Lead Lgth.	9"		9"	9"	9"	
Layer Insul.	96		50H		*	
Test Volt.						
Wrapper	11007VC	11007VC	21005GA	21005GA	21005GA	

TUBE 71007 IMPREGNATION Varnish

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

MOUNTING A

Start White.
 100 - Black.
 110 - Yellow.
 120 - Brown



DESIGNED BY *Geo*

DATE 11/9/37

EP - 125V

E3 - 1500V, 350ma

115

SPEC. NO.

3627

Winding	SEC		PRI			
Turns	1800		144			
Taps	—					
Wind. Lgth.	2 1/4		2 1/4			
Wire Size	#26		#14			
T. P. L.	120-15		5L			
Finish				ground start, use		
Type Lead		WIRE ONLY	— SLEEVING	15" #14 motor lead		
Lead Lgth.		12"		for outside lead		
Layer Insul.	40#		.007K			
Test Volt.	5000					
Wrapper	24007V C 32005GA		3005GA			

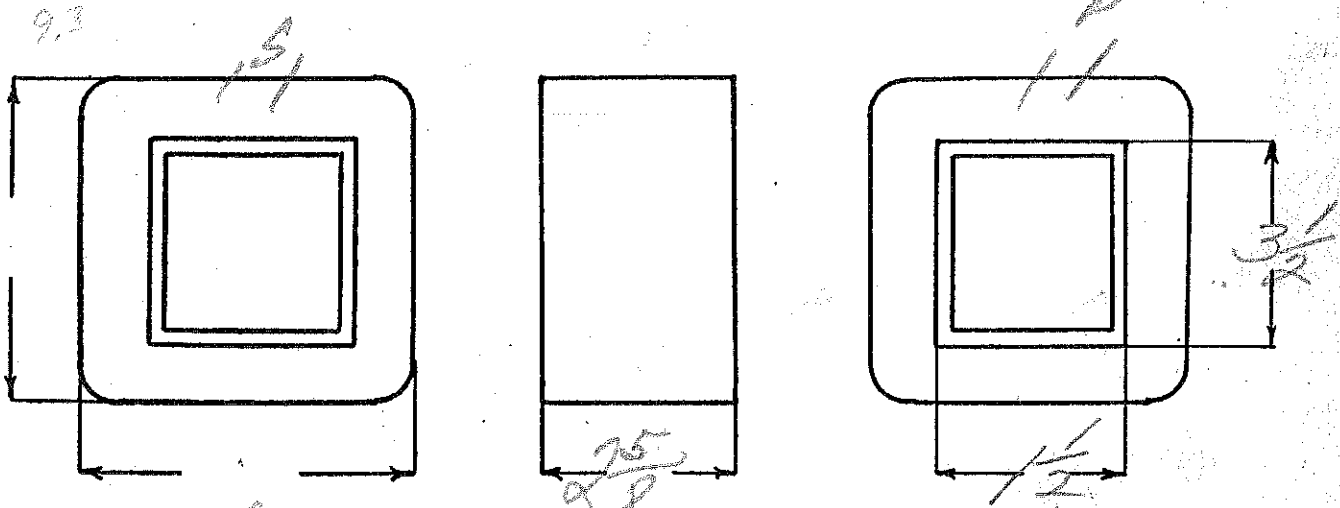
TUBE	92007+4007V C	IMPREGNATION	VARN 15H
------	---------------	--------------	----------

CORE	GA.	GRADE	STACK
------	-----	-------	-------

MOUNTING 5 - lead out lower side of core

ground start of sec winding

sec 20
pri 9.3



DESIGNED BY

Shulman

DATE

11/9/37

EP-110-115-120
 ES-1450V - 350 ma
 EF-10V-7 amp

SPEC. NO. 3628

115

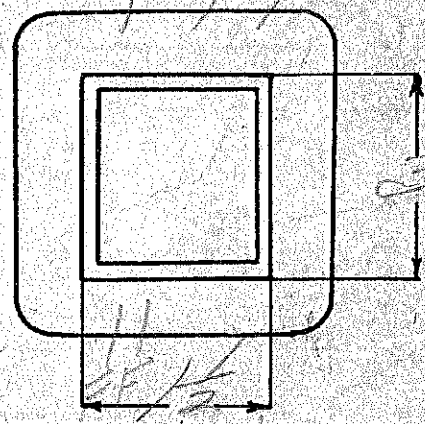
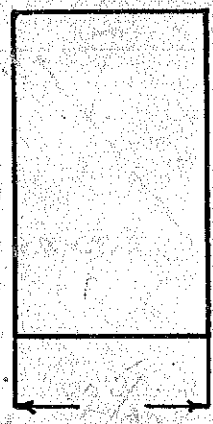
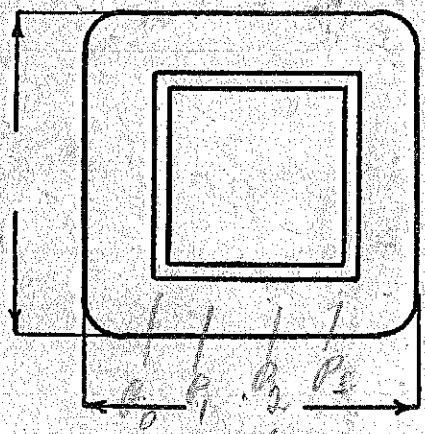
Winding	SEC		PR1		FIL	
Turns	1800		140		13	
Taps			135-130		6 1/2	
Wind. Lgth.	2 1/4					
Wire Size	#26		#14		#17	
T. P. L.	120-15					
Finish	WIRE ONLY					
Type Lead						
Lead Lgth.	3 1/2		3"		3"	
Layer Insul.	40 1/2		107 1/2			
Test Volt.	5000V		2500		2500	
Wrapper	21050A		36050A		21050A	

TUBE 9600 100 MC IMPREGNATION V. 100 MC

CORE 1/2 x 3/2 GA. GRADE STACK

MOUNTING mounted - see 3312

over sec. to facilitate strip
 put fil. to finger

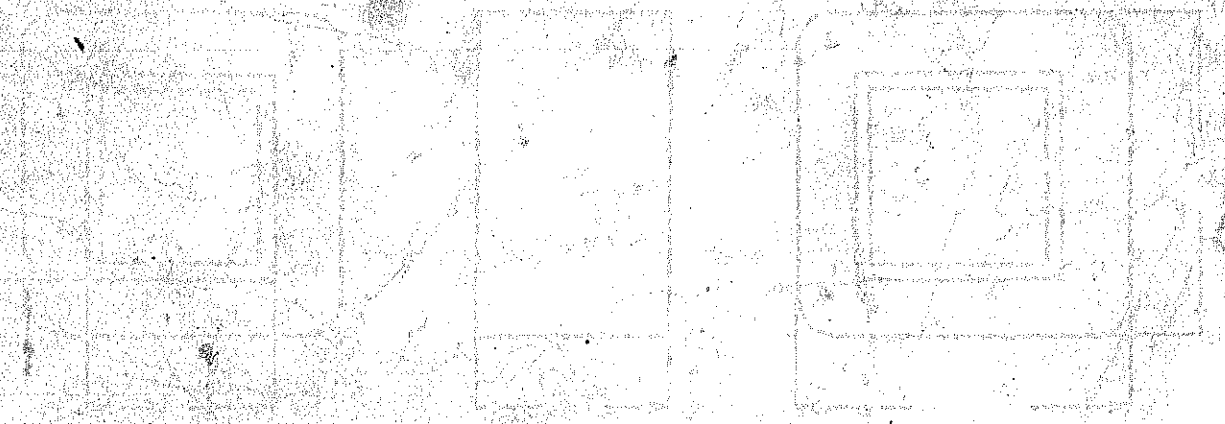
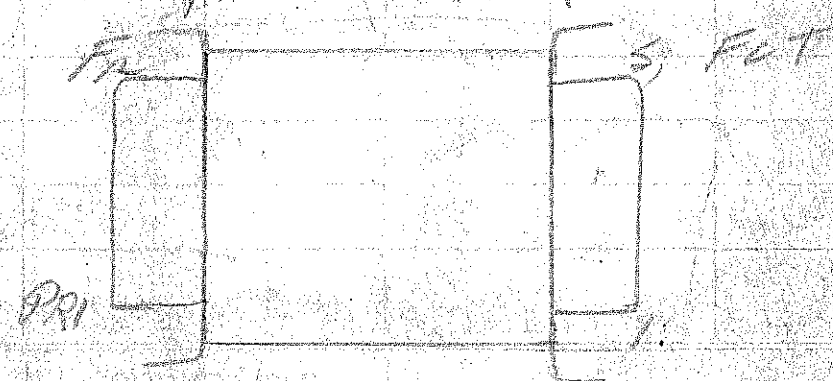
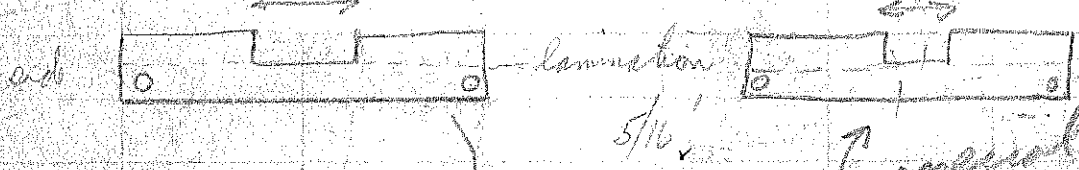
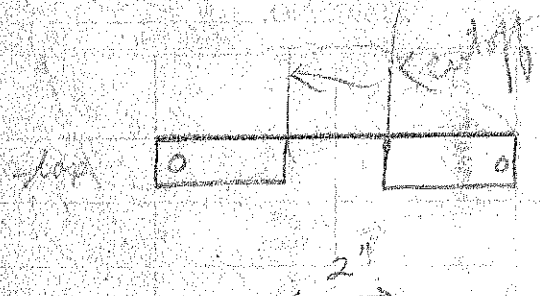


DESIGNED BY

DATE

[Handwritten signatures and dates]

9/16



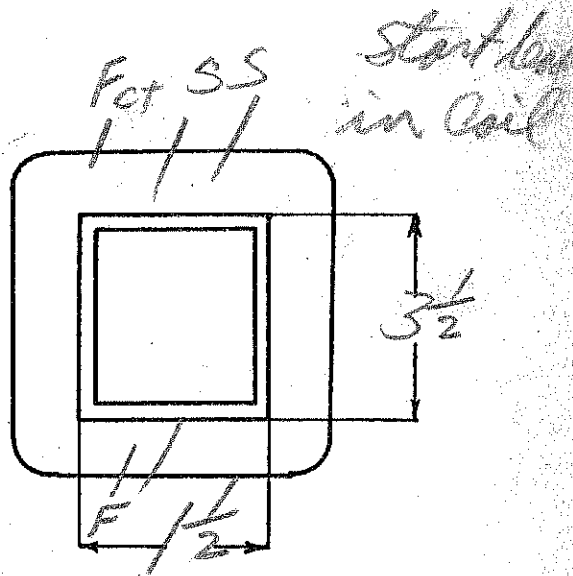
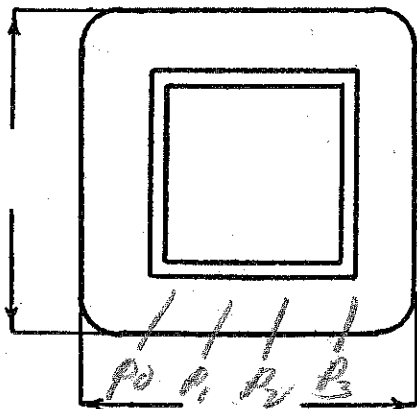
Ep-220-230-240

ES-1450V-350 MA

ET-10V-70amp

SPEC. NO. 3628-230V

Winding	SEC		PR1		FIL		
Turns	1800		280		13		
Taps			270-260		6 1/2		
Wind. Lgth.	2 1/4						
Wire Size	#26		#17		double #17		
T. P. L.	120-15						
Finish	wire only						
Type Lead							
Lead Lgth.	3"		3'				
Layer Insul.	double 40#		107Kraft				
Test Volt.	5000		1250		1250		
Wrapper	31007VC 31005GA		31005GA		31005GA Double		
TUBE	91007/11007VC		IMPREGNATION		Varnish		
CORE	1 1/2 x 3 1/2	GA.	24	GRADE	D	STACK	2 1/2
MOUNTING	wreath						



DESIGNED BY

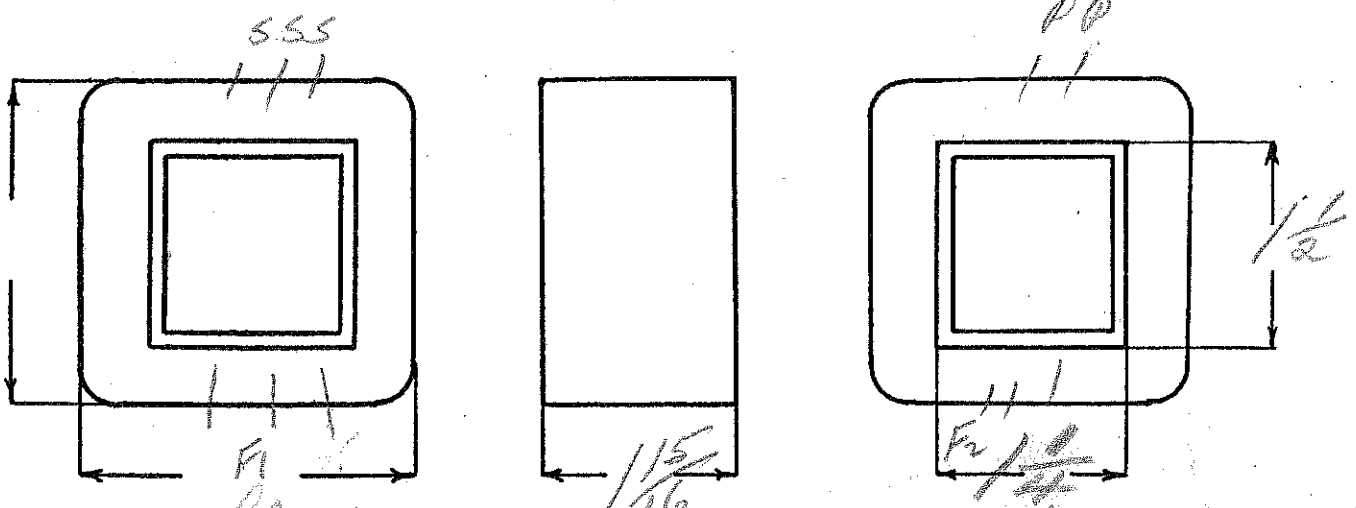
DATE 1/22/38

Ep-115
 ES-900V CT-125 ma
 F-5VCT-2.5 amps F-10VCT-2.5 amps

825
 SPEC. NO. 3629

Winding	SEC	SHIELD	PRI	F ₁	F ₂		
Turns	3200	161	374	18	36		
Taps	1600		-	9	18		
Wind. Lgth.	1.75						
Wire Size	#31	#31	#21	#18	#18		
T. P. L.	161-20		54-7				
Finish			W.O.	✓	✓		
Type Lead	Sil Bz						
Lead Lgth.	4"		4"	4"	4"		
Layer Insul.	double 20#		50#				
Test Volt.							
Wrapper	21007VC	14007VC	21007BA	21007BA	21007BA		
TUBE	92007			IMPREGNATION		VARNISH	

CORE GA. GRADE STACK
 MOUNTING F



DESIGNED BY *Rosen*

DATE 11/10/37

Ep-110-115-120

EF-10VOT-10 amp

white 375

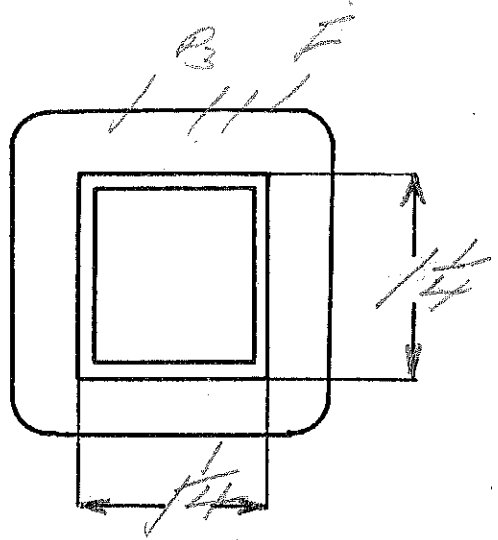
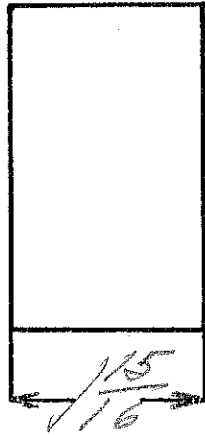
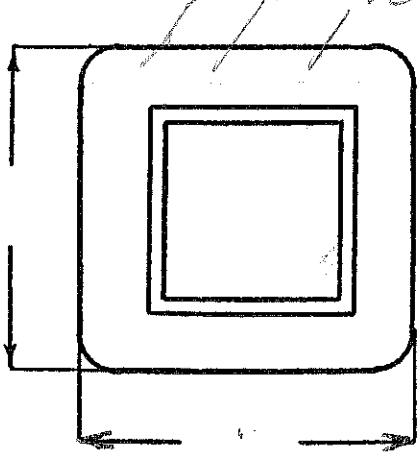
SPEC. NO. 3630

Winding	PR1	SEC				
Turns	450	42				
Taps	430 410	21				
Wind. Lgth.	1.75					
Wire Size	#21	#12				
T. P. L.	53-10	3L				
Finish	#20 enamel	WIRE ONLY				
Type Lead						
Lead Lgth.	9"	9"				
Layer Insul.	50#	.007				
Test Volt.						
Wrapper	21007GA	21007GA				
TUBE	21007		IMPREGNATION			

CORE GA. GRADE STACK

MOUNTING A

Start White
110 - Black
115 - Yellow
120 - Brown



DESIGNED BY SW

DATE 11/9/37

Ep - 120-180V

3000 turns

ES - 3000V - 250 ma

SPEC. NO. 3631

1.06

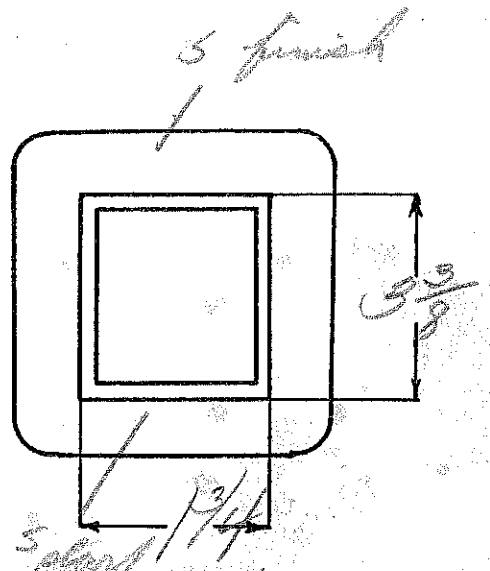
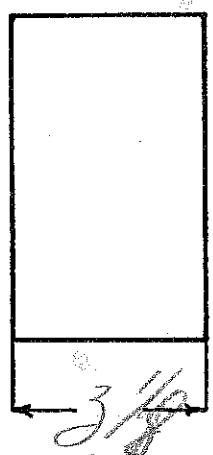
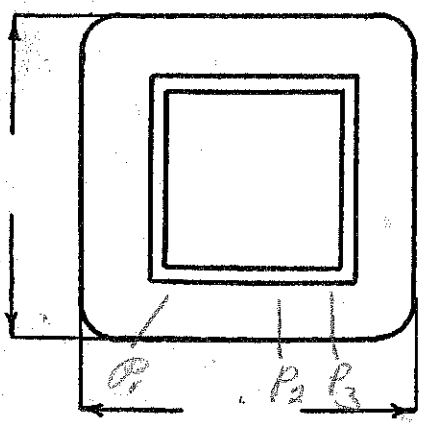
Winding	SEC	PRI				
Turns	3300	128	64			
Taps	—	—	—			
Wind. Lgth.	2 ³ / ₈	2 ³ / ₄				
Wire Size	#26	#13	#18			
T. P. L.	127-26	4L	2L			
Finish				sealant w.o. ground to core		
Type Lead		WIRE ONLY		finish - #20 steel - 18"		
Lead Lgth.		4"	4"			
Layer Insul.	double 50#	1007K				
Test Volt.						
Wrapper	3L007W 2L005		2L005GA 1L010RR			

TUBE 10L007 + 1K007W IMPREGNATION VARNISH

CORE 1/4" x 3 3/8 GA. GRADE STACK

MOUNTING C - open - two sheet metal horiz frames

aluminum Pt

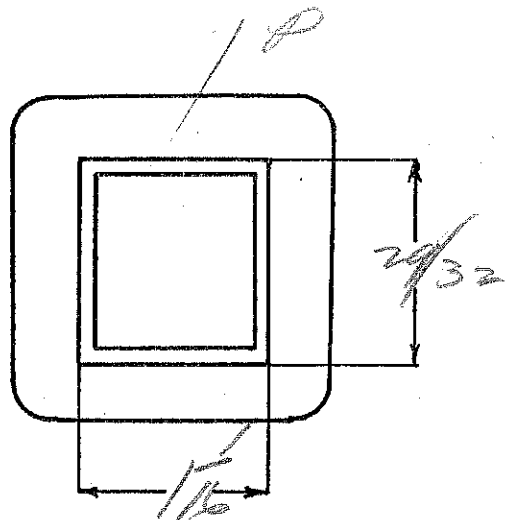
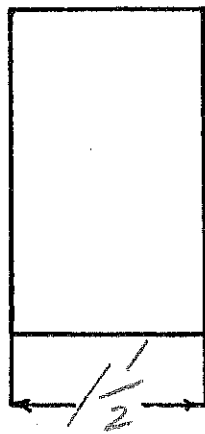
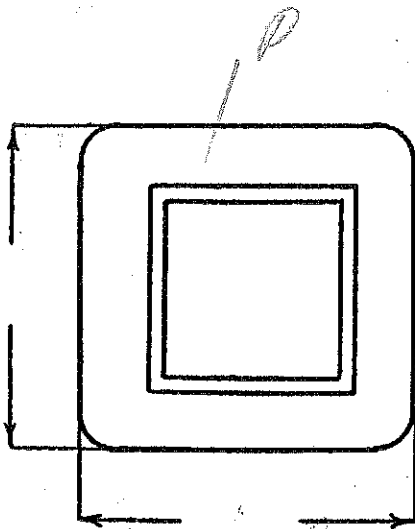


DESIGNED BY *GW*

DATE 11/15/39

SPEC. NO. 3632 Coil

Winding							
Turns	100						
Taps							
Wind. Lgth.	1.25						
Wire Size	#17						
T. P. L.	5L						
Finish							
Type Lead	w. o.						
Lead Lgth.	12" sleeving						
Layer Insul.	007K						
Test Volt.							
Wrapper	26056A						
TUBE	9L007		IMPREGNATION		VARNISH		
CORE	Welding metal	GA.	GRADE		STACK		
MOUNTING							



DESIGNED BY

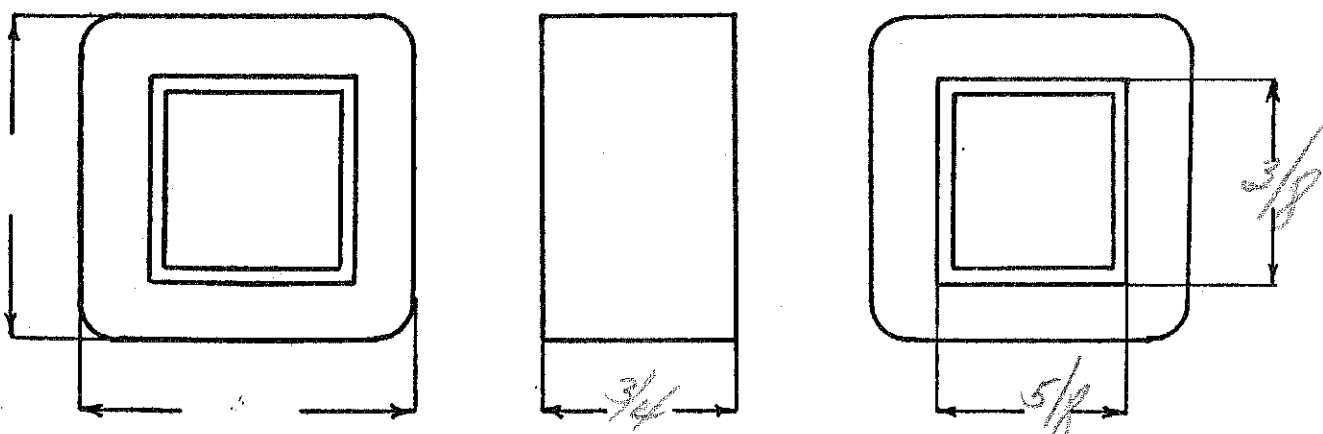
gsw

DATE

11/15/37

SPEC. NO. 3633

Winding	P	S				
Turns	250	2600				
Taps	—	—				
Wind. Lgth.	5/8	5/8				
Wire Size	#27	#38				
T. P. L.	37-7	130-30				
Finish						
Type Lead	W.O	#70				
Lead Lgth.	no sliding 6"	Dulas 6"				
Layer Insul.	30#	20#				
Test Volt.		2500V				
Wrapper	11007VC	11007VC 11005GA				
TUBE	#1007		IMPREGNATION	varnish		
CORE	5/8-502 GA. 24"		GRADE	STACK E only		
MOUNTING	—					



DESIGNED BY SM

DATE 11/18/23

E₁ - 115V - 25ma
 E₂ - 280V - 22ma
 E₃ - 5V - 2amps

Similar to #3560

separate coils¹⁰

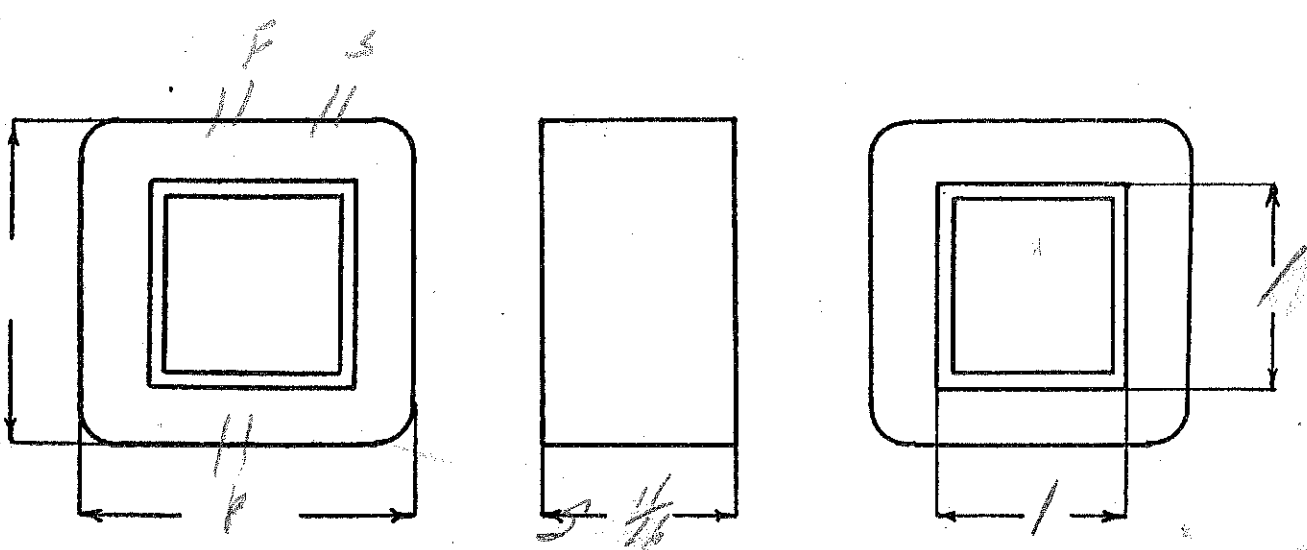
SPEC. NO. 3634-25

Winding		SEC	FIL		PRI	
Turns		3100	58		1170	
Taps						
Wind. Lgth.		15/32			15/32	
Wire Size	#27	#37	#21		#30	
T. P. L.		86-36	42		39-30	
Finish						
Type Lead		sil Br	wa.		sil Br	
Lead Lgth.		3"	3"		3"	
Layer Insul.		double 16#			30#	
Test Volt.		2500				
Wrapper		20056A	20056A		20056A	

TUBE 7007 IMPREGNATION VARNISH

CORE 1x1 GA. 24 GRADE STACK 2x2

MOUNTING BB - reverse position of coils
 wrapping panel per pu and sec
 stack coils side by side with 2-.000" fibre separator



DESIGNED BY *Geo*

P 1/16

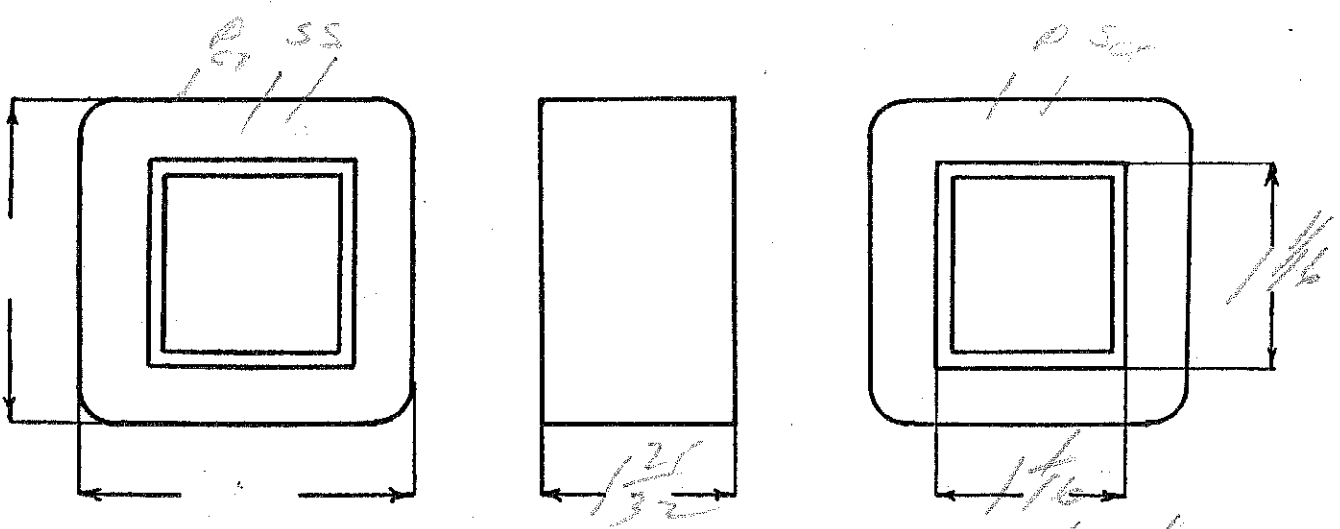
DATE

EP-18
 ES-600V CT - 90 ma
 EF-5V - 3 amp
 EG-6.3V - 1.5 amp

4.88'

SPEC. NO. 3635

Winding	SEC	SHIELD	DR1	F1	F2		
Turns	3120	174	575	27	33		
Taps	1560		-	-	16		
Wind. Lgth.	1 15/32						
Wire Size	#33	#33	#24	#18	#20		
T. P. L.	174-18		64-9				
Finish							
Type Lead	#20 Dia B		#20 Dia B	WIPE ONLY			
Lead Lgth.	9" Dia B	3"	9"	9"	9"		
Layer Insul.	16 #		50 #				
Test Volt.							
Wrapper	11007VC	11007VC	21005GA	21005GA	21005GA		
TUBE	7407	IMPREGNATION		VARNISH			
CORE	1/16 x 1/16	GA.	24	GRADE	STACK 2x2		
MOUNTING	A						



DESIGNED BY *W. Sawyer*

DATE 11/21/37

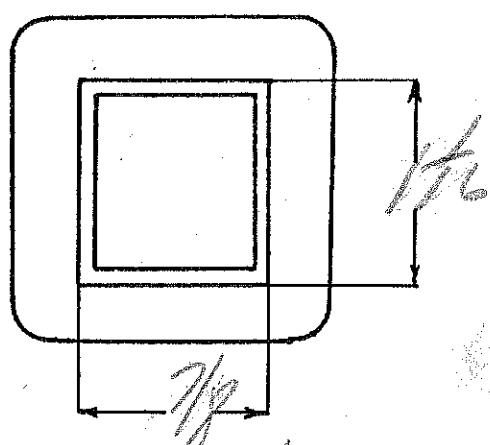
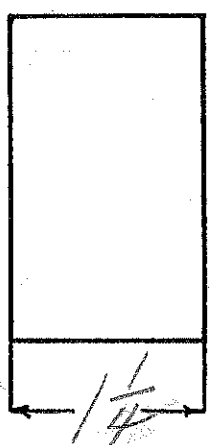
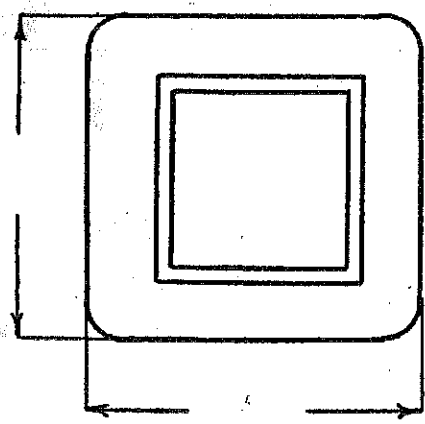
EF-120V
 ES.
 EF-5V-2amp
 EF-6.3V 1.3amp

Kerovan

56

SPEC. NO. 3636

Winding	SEC	SHIELD	PR1	F1	F2		
Turns	3300	70	625	31	38		
Taps	1650		-	-	-		
Wind. Lgth.	1 1/16						
Wire Size	#38	#28	#28	#21	#22		
T. P. L.	210-16		70-9				
Finish							
Type Lead	#22 cellar		#22 cellar	WIRE ONLY			
Lead Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	double 16#		40#				
Test Volt.							
Wrapper	1007VC	7005VC	2005GA	2005BA	2005GA		
TUBE	51007			IMPREGNATION		VARNISH	
CORE	7/8 x 1 1/16	GA.		GRADE		STACK	
MOUNTING	A						



DESIGNED BY *Wlaner*

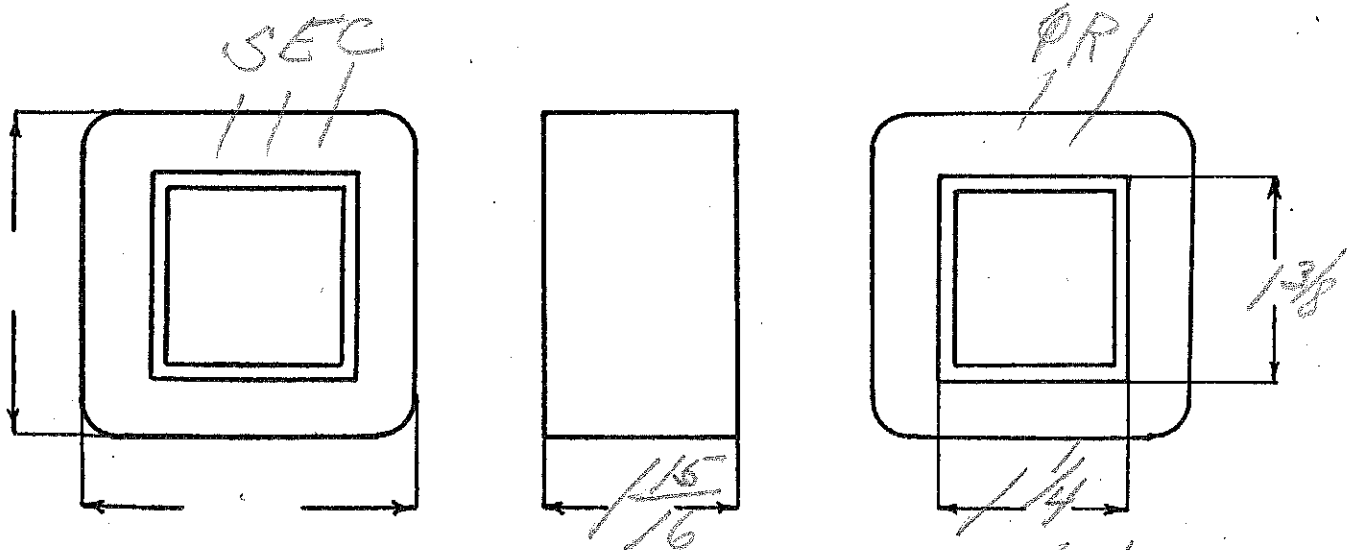
DATE *11/21/37*

EP - 120V
 ES - 600VCT-200ma
 EF - 5V-3amp
 EE - 6.3V-6amp

SPEC. NO. 3637

Winding	SEC	SHIELD	PRI	³³ F ₁	F ₂		
Turns	2160	140	396	18	23		
Taps	1080				12		
Wind. Lgth.	1.75	✓	✓		✓		
Wire Size	#30	#30	#21	#18	#15		
T. P. L.	140-16		52-8				
Finish							
Type Lead	#30 #20 Brass		#20 #20 Al	CURE ONLY			
Lead Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	double 20#		50#				
Test Volt.							
Wrapper	1007VC	1007VC	1007GA	2007BA	2007BA		
TUBE	1/1007			IMPREGNATION		VARNISH	

CORE GA. GRADE STACK
 MOUNTING A



DESIGNED BY Weaver

DATE 11/21/37

230 - 115V - step down for Fischer #106 chassis

1.5

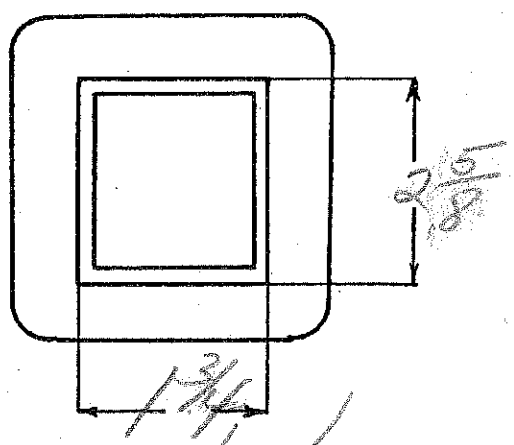
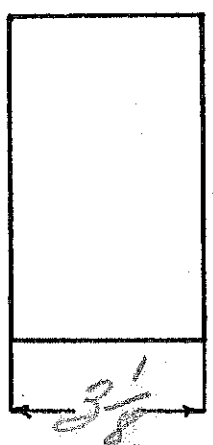
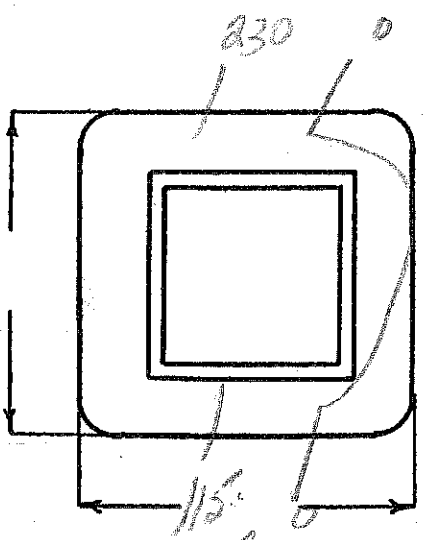
SPEC. NO. 3638

Winding	P						
Turns	360						
Taps	185						
Wind. Lgth.	2 3/4						
Wire Size	#14						
T. P. L.	10L						
Finish							
Type Lead	W.O.						
Lead Lgth.	4" - to lug on coil						
Layer Insul.	.007						
Test Volt.							
Wrapper	310-05GA						

TUBE 91007 IMPREGNATION VARNISH

CORE 1 3/4 x 2 9/8 GA. 24 GRADE Dynamo STACK 2x2

MOUNTING G - supply ends with un-drilled bakelite bands
customer will assemble



DESIGNED BY *gsw*

DATE 1/1/25/37

P-118V
F-5V-3amp

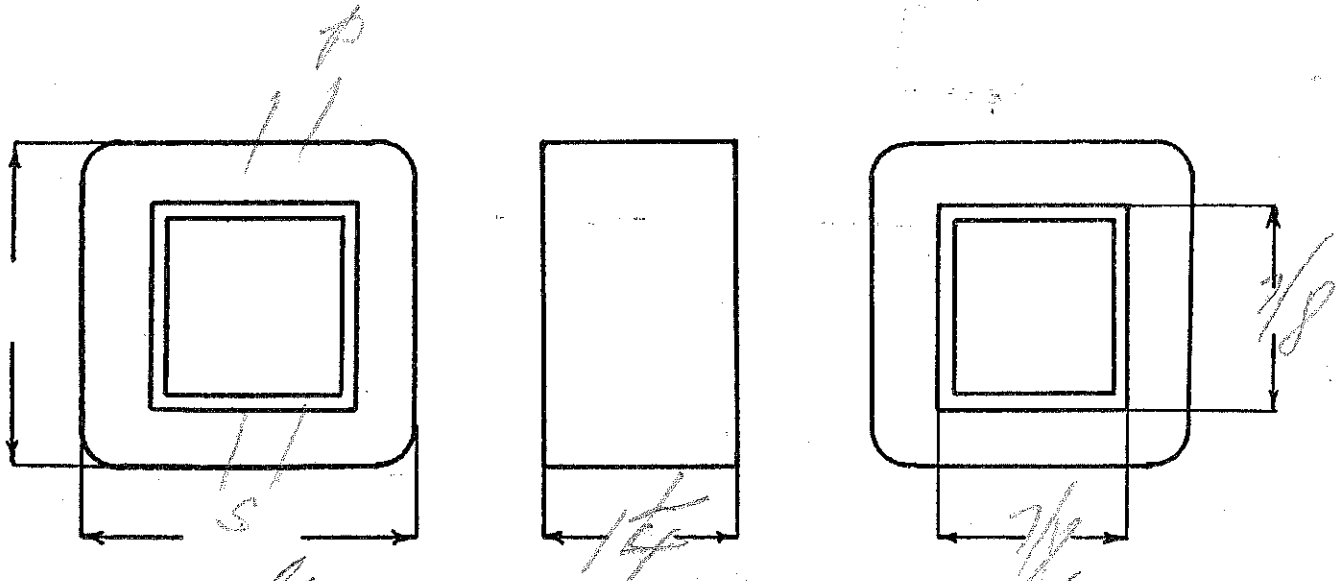
725
SPEC. NO. 3639

Winding	PRI	FIL				
Turns	860	42				
Taps		-				
Wind. Lgth.	1 1/16	1 1/16				
Wire Size	#30	#17				
T. P. L.	87-10	26				
Finish		W.O.				
Type Lead	Silbr					
Lead Lgth.	4"	4"				
Layer Insul.	#0#					
Test Volt.	2500	2500				
Wrapper	1001V	1001V				
	20056A	20056A				

TUBE 7609 IMPREGNATION V/Vanish

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

MOUNTING F



DESIGNED BY *gwr*

DATE 1/10/37

PR1 - 220 - 230 - 240
 FIL - 10.5VCT. 8amp

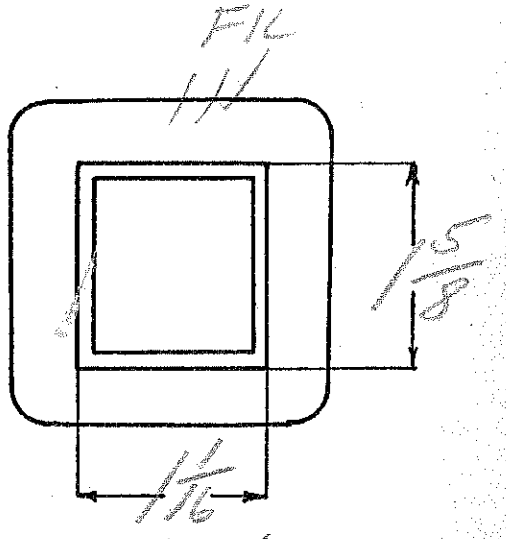
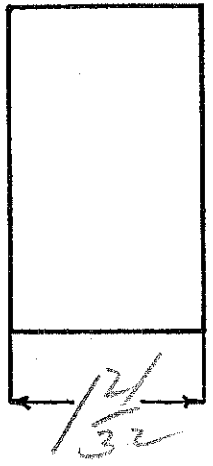
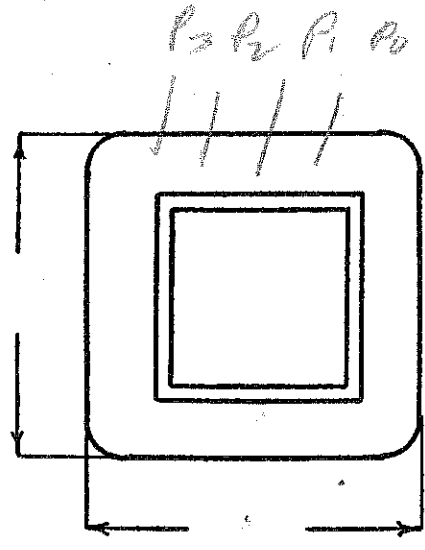
SPEC. NO. 3640
 -240V

Winding	PR1		FIL			
Turns	800	1	39			
Taps	770 740		19			
Wind. Lgth.	115/32					
Wire Size	#26		double # #16 or 13			
T. P. L.	78		32			
Finish						
Type Lead	WIPE ONLY					
Lead Lgth.	4"		4"			
Layer Insul.	50#					
Test Volt.						
Wrapper	260056A		260056A			

TUBE 7607 IMPREGNATION varnish

CORE 1 1/16 x 1 5/8 GA. 24 GRADE D STACK 2x2

MOUNTING @ - cadmium - mounted on base 8 1/2 diameter



DESIGNED BY SW

DATE 11/29/37

EP-230V

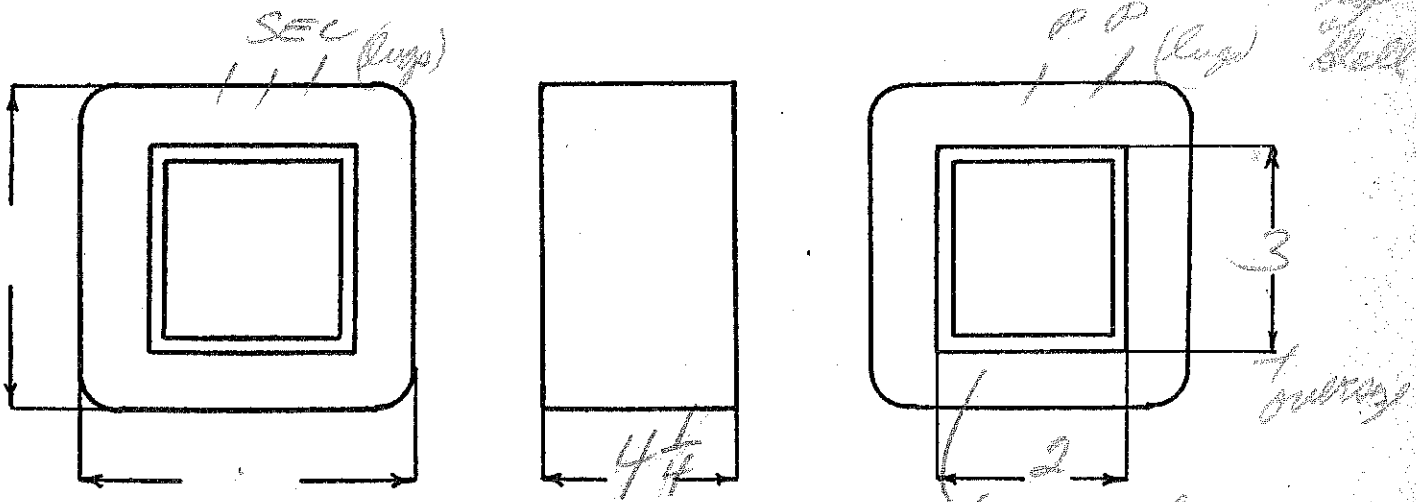
similar to 3589

ES-1750-2000-2500V-400ms

SPEC. NO. 3641-230V

Winding	SEC		PR1				
Turns	2640		240				
Taps	2000-1900						
Wind. Lgth.	3 1/2		3 3/4				
Wire Size	#24		#13				
T. P. L.	147						
Finish	WIPE ONLY						
Type Lead							
Lead Lgth.	4"		4"				
Layer Insul.	double 40W		007K				
Test Volt.	2500V		-				
Wrapper	26007VC 26005GA		3005GA				Double Varnish
TUBE	106007+26007VC		IMPREGNATION				
CORE	2x3	GA.	24	GRADE	D	STACK	2x2
MOUNTING	C-shunt. shelf mount on Fischer 81 chassis						

Pri + sec to lugs
 start sec lead in coil - splice to 26" #14 motor cable out top shell



DESIGNED BY *EW*

DATE *Sec start lead*
11/29/37

EP-115

ES - 450 each side CT @ 200mA & 325 each side CT @ 240mA

EP1 - EP2 - 5V, 3 amp

6.3V - CT - 6.5 amps

SPEC. NO. 3642

EP3

Winding	SEC ₁	SEC ₂	SHIELD	PR1	F ₁	F ₂	F ₃
Turns	1450	2000	168	250	12	12	15
Taps	725	1000					7
Wind. Lgth.	2 1/4	✓	✓	✓	✓	✓	✓
Wire Size	#28	#29	#29	#18	#18	#18	#14
T. P. L.	147-10	168-12		50-5			
Finish							
Type Lead	#20 Par P	N.A.			WIPE ONLY - SLEEVING		
Lead Lgth.	9"	9"	3"	9"	✓	✓	✓
Layer Insul.	double 30#	double 30#		007K			
Test Volt.							
Wrapper	2L007VC	2W007C	2L005GA	2W005GA			3L005GA

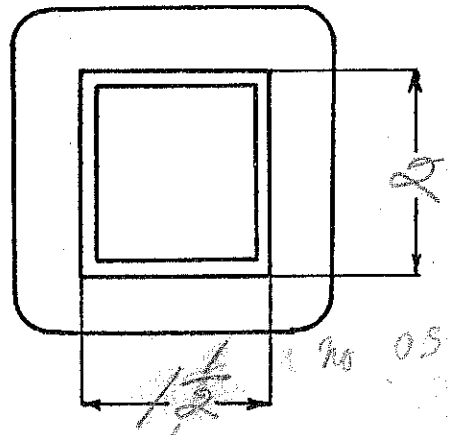
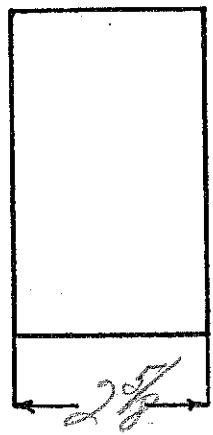
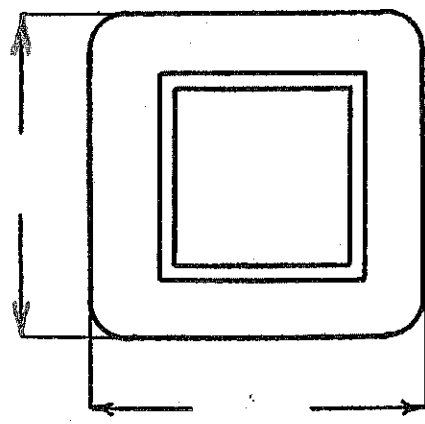
TUBE	9L007	IMPREGNATION	VARNISH
------	-------	--------------	---------

CORE	1/2 x 2	GA.	GRADE	STACK
------	---------	-----	-------	-------

MOUNTING A

Sec₁ - Red
Blue CT

Sec₂ - Brown
White CT.



DESIGNED BY *gwr*

DATE 11/24/39

P - 110-120-200-220-250

51

S - 700V CT - 60 ma

F - 5V - 2 amp

P - 2.5V - 8 amp CT

39

221-3643
SPEC. NO.

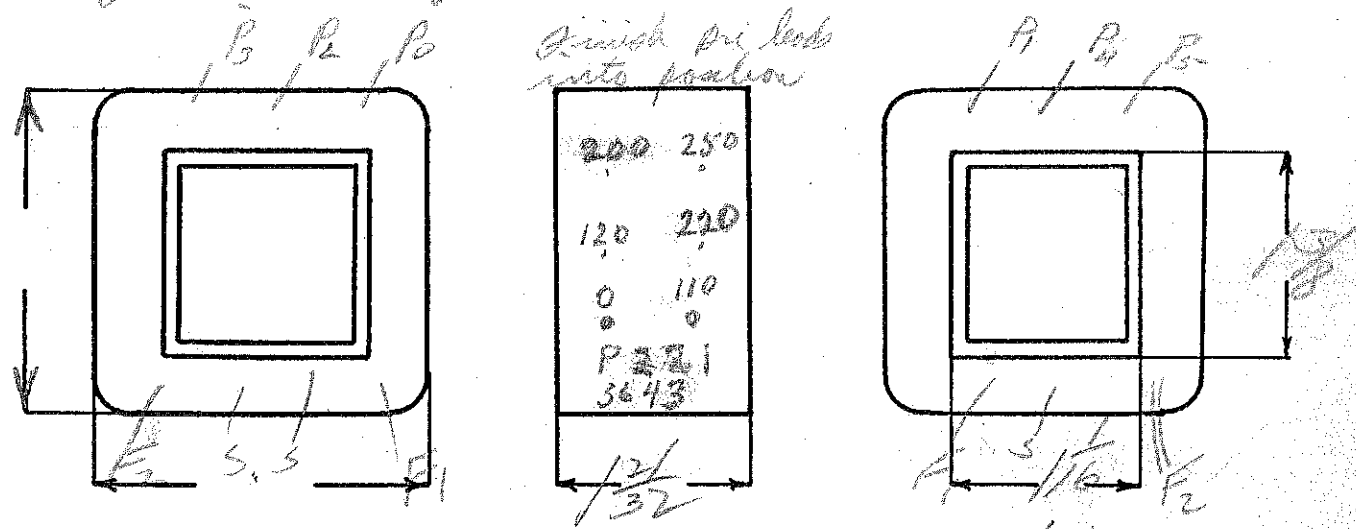
Winding	SEC	SHIELD	PRI	PRI	F ₁	F ₂	
Turns	2940	210	470	490	22	11	
Taps	1470		433	390-312		5	
Wind. Lgth.	1 15/32						
Wire Size	#35	#35	#24	#28	#20	double #19	
T. P. L.	210-14		62-8	100-6			
Finish			WIRE ONLY				
Type Lead	#10 P.L.				WIRE ONLY - ALLEN		
Lead Lgth.	9"	3"	4"	4"	9"	9"	
Layer Insul.	double 16#		50#				
Test Volt.	2500		watch speeds!				
Wrapper	1/1007VC	1/1007VC		2/1005GA	2/1005GA	2/1005GA	

TUBE	71007	IMPREGNATION	Normal
------	-------	--------------	--------

CORE	1 1/16 x 1 3/8	GA.	GRADE	STACK
------	----------------	-----	-------	-------

MOUNTING AF

Sec and F filaments leads
Primary - wire only to keep in F mtg



DESIGNED BY *gwr*

DATE 12/3/37

Ep - 110-120-200-220-250

Es - 700VOT-60 ma

Ef - 5V 2amps

Ef - 6.3V 3.5amps

SPEC. NO. 3644

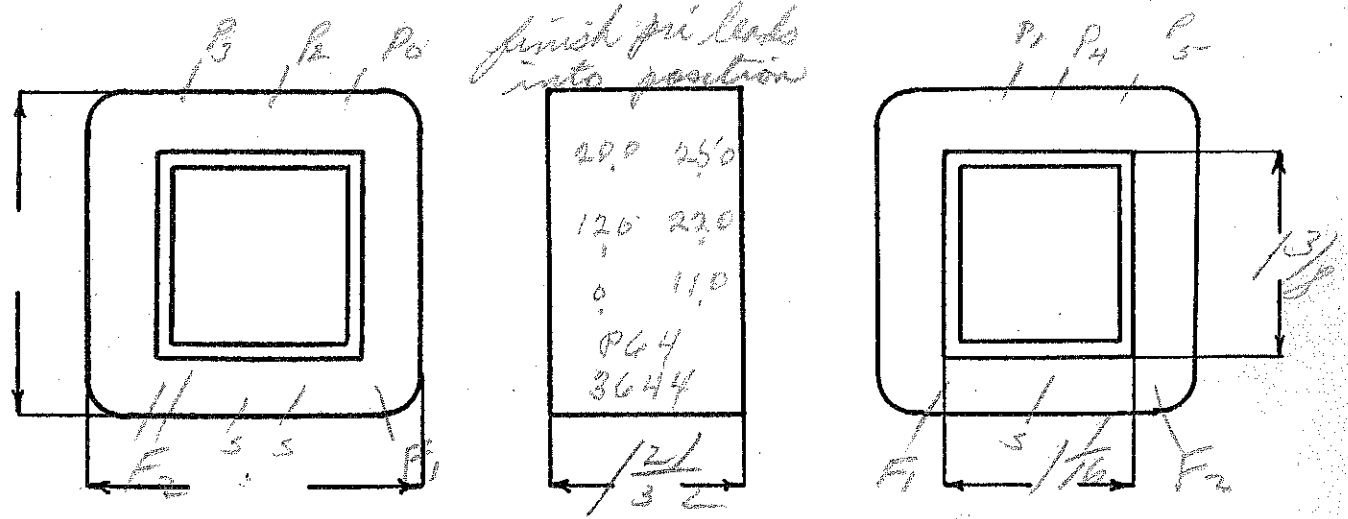
Winding	SEC	SHIELD	PRI	PRI	F ₁	F ₂	
Turns	2940	210	470	490	22	27	
Taps	1470		433	390-312		13	
Wind. Lgth.	115/32						
Wire Size	#35	#35	#24	#28	#20	#18	
T. P. L.	210-14		62	100			
Finish			WIRE ONLY				
Type Lead	#20 7m		---		WIRE ONLY		
Lead Lgth.	9"		4"	4"	9"	9"	
Layer Insul.	double 16#		50#				
Test Volt.			watch spirals!				
Wrapper	11007VC	11007VC		21005GA	21005GA	21005GA	

TUBE 76007 IMPREGNATION Double varnish

CORE 1/16 x 1/8 GA. GRADE STACK

MOUNTING AF

Sec + Filaments - leads
Pri - wire only - to slip in Frntg -



DESIGNED BY *[Signature]*

DATE 12/3/37

Ep - 110-120-200-220-250V
 Es - 700 V.C.T. - 80 ma
 Ef₁ - 5V - 3amps.
 Ef₂ - 6.3V - C.T. - 3amps

Continuous

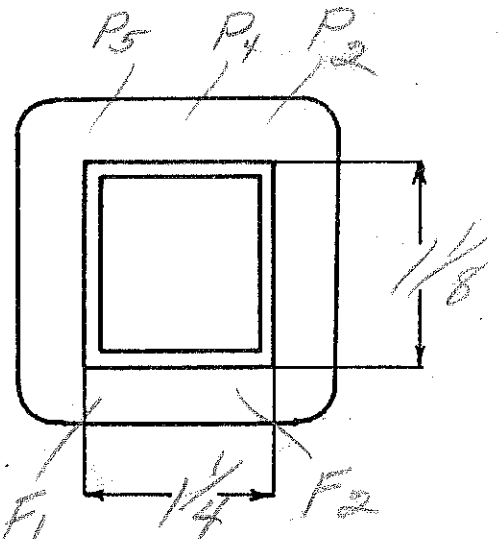
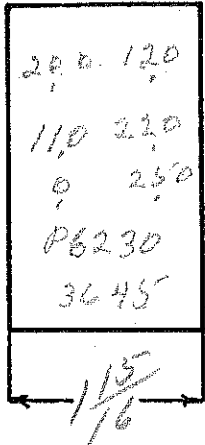
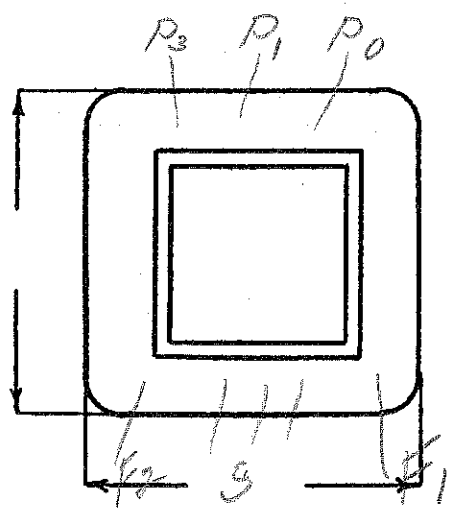
P6230, 3645
SPEC. NO. 3645

Winding	Sec.	Shield	Pri	Pri	blue F ₂	green F ₁	
Turns	3100		480	520	28	22	
Taps	1550		440	400-315	14	—	
Wind. Lgth.	1.75						
Wire Size	#33	#33	#24	#27	#18	#18	
T. P. L.	195-16		74-7	105-6			
Finish			Wire	ONLY			
Type Lead	#20 PB				Wire ONLY		
Lead Lgth.	9"		4"	4"	9"	9"	
Layer Insul.	double 16#		50#				
Test Volt.			watch spirals				
Wrapper	1L007VC	1L007VC		2L007GA	2L007GA	2L007GA	
TUBE	7L007		IMPREGNATION		Double Varnish		

CORE 1/4 X 1/8 GA. GRADE STACK

MOUNTING AF

Sec & Fil - leads
 Pri - "Wire only" to lugs in F case



DESIGNED BY Copy B.S.

DATE 12/3/37

Ep - 110-120-200-220-250

EB - 750VCT- 100ma

EF - 5V- 30amp

EF - 6.3VCT- 2amp

EF - 6.3V - 3.5 amp

3.35

P653-3646 SPEC. NO.

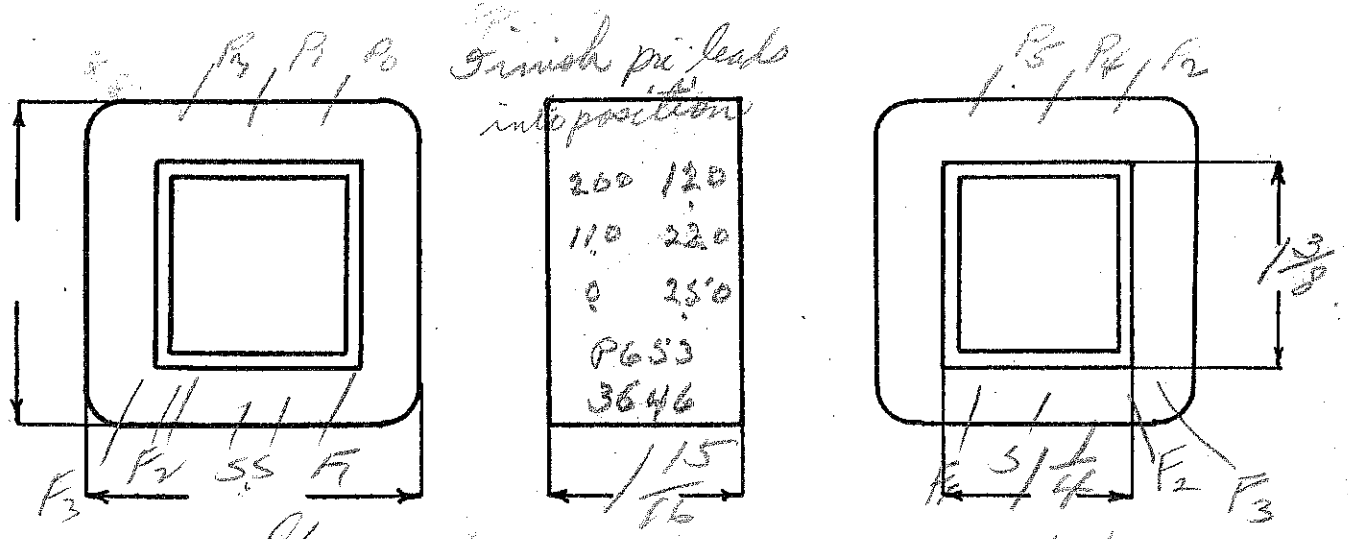
Winding	SEC SHIELD	DR1	DR1	F1	F2	F3	
Turns	2750	196	400	435	18	23	23
Taps	1375		366	335 270		12	-
Wind. Lgth.	1.75						
Wire Size	#33	#33	#22	#26	#18	#20	#17
T. P.L.	196-14		61-7	93-6			
Finish			WIRE ONLY				
Type Lead	#22		1		WIRE ONLY		
Lead Lgth.	9"		4"	4"	9"	9"	9"
Layer Insul.	double 20#		50#				
Test Volt.			watch spikes!				
Wrapper	1000V	1000V		2007BA		2007BA	2007BA

TUBE 7607 IMPREGNATION Varnish

CORE 1/4 x 1 3/8 GA. 24 GRADE STACK

MOUNTING AF

sec - fil - leads
Pri - "wire only" to frame



DESIGNED BY J. Weaver

DATE 12/3/37

Ep - 110 - 120 - 200 - 220 - 250

ES - 750VCT. 125 ma

EF - 5V, 3amps

EF - 2.5VCT. 4amps

EF - 6.3V - 5amps

29

P654-3647
SPEC. NO.

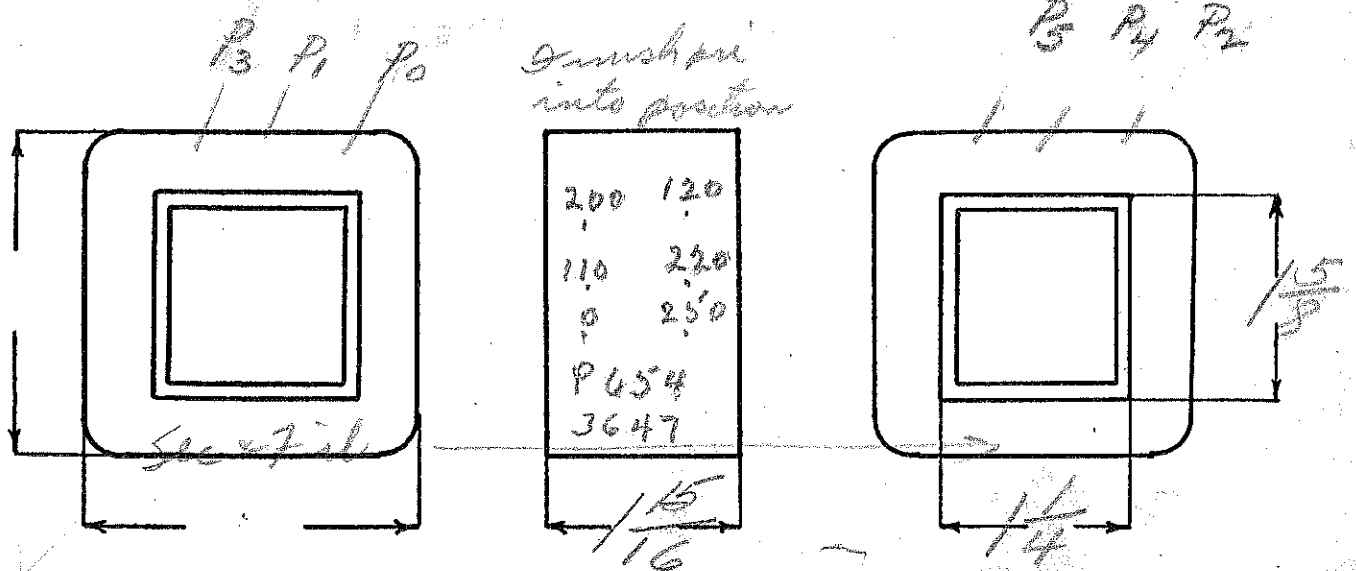
Winding	SEC	SHIELD	PRI	PRI	Fa	F	F
Turns	2380	172	350	380	16	8	20
Taps	1190		318	240-310		4	10
Wind. Lgth.	1.75	✓	✓	✓			
Wire Size	#32	#32	#21	#25	double #21	double #20	double #19
T. P. L.	172-14		53-7	80-5			
Finish			WIRE ONLY				
Type Lead	#20 Pwr/Pwr				WIRE ONLY	WIRE ONLY	
Lead Lgth.	9"		4"	4"	9"	9"	9"
Layer Insul.	double 16#		50#	50#			
Test Volt.							
Wrapper	11007VC 41/2#	11007VC	2107VC	21007GA		21007BA	20007BA

TUBE 7L007 IMPREGNATION VARNISH

CORE 1 1/4 x 1 5/8 GA. GRADE STACK

MOUNTING AF

Sec & Fil - leads
Pri - "wire only" to lug in F panel



DESIGNED BY *DW*

DATE 12/3/37

Ep - 110-120-200-200-250V

Es - 500VCT-65ma EF- 25VCT-10.5amp

EF - 5V-3amp EF - 15V-6.5amp

EF - 5VCT-1amp EF - 1.5V-3amp

425 SPEC. NO. P51-3648

Winding	SEC	PRI	PRI	Black F	Red F	White F	Green F	Blue F
Turns	2300	570	550 425	12	7	24	24	7
Taps	1150	470	340	6	3	12		3
Wind. Lgth.	1.75							
Wire Size	#34	#23	#26	#13	#15	#22	#18	#18
T. P. L.	230-10	67-8	90-7		2 layers			
Finish		WIRE ONLY						
Type Lead	#20 PUSH			WIRE ONLY				
Lead Lgth.	9"	8"	3"	9"				
Layer Insul.	double 16#	50#	50#					
Test Volt.								
Wrapper	16007VC		2100781				Double	

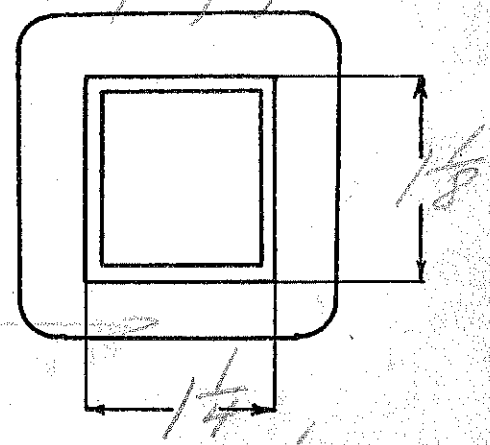
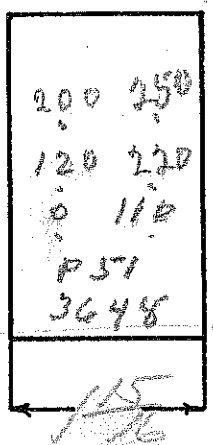
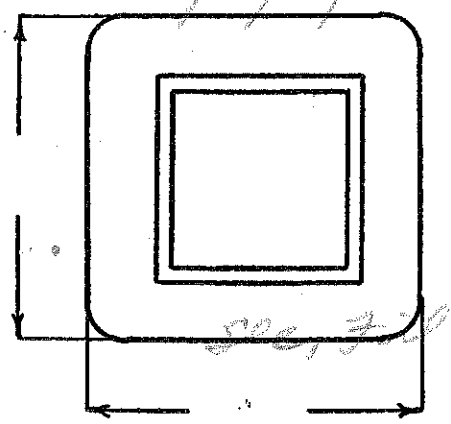
TUBE 71007 IMPREGNATION Varnish

CORE 1/4x1/8 GA. GRADE STACK

MOUNTING AF

Sec. and filament leads
Pri - "wire only" to sup in F panel

Finish to primary leads into position



DESIGNED BY Sw

DATE 12/6/37

Ep - 110 - 120 - 200 - 220 - 250V
 E3 - 250VCT - 85 ma Ef - 25V - 3amps
 Ef - 5V - 3amps Ec - 15VCT - 3.2amps
 Ek - 2.5VCT - 3.5amps G - 15V - 6.5amps

P 52 - 364
 SPEC. NO.

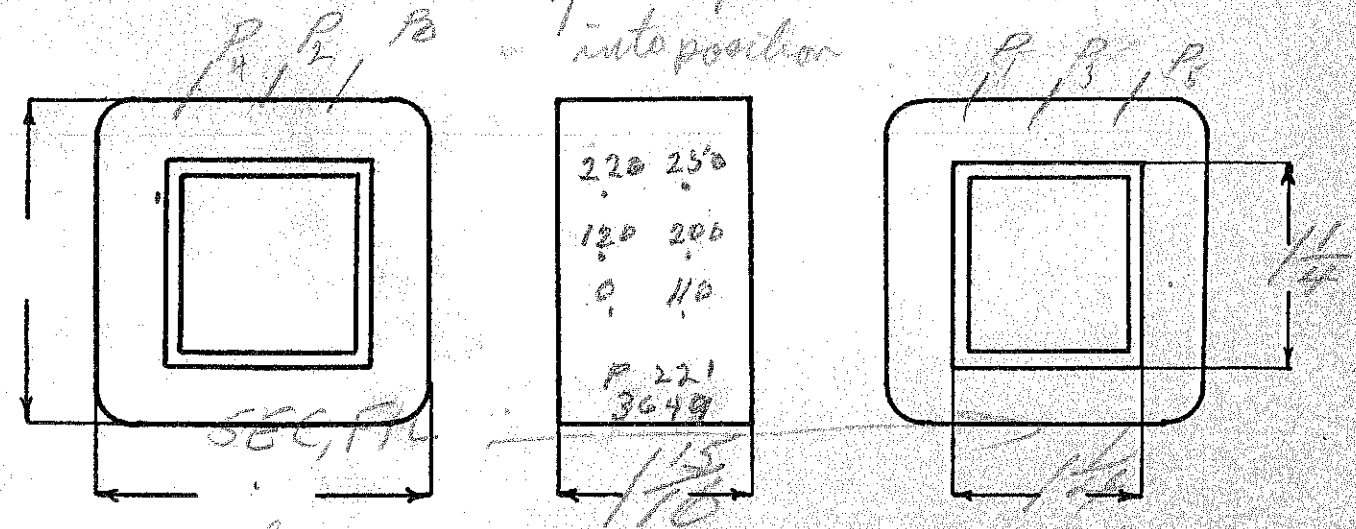
Winding	SEC	PRI	PRI	E1	Blue E5	White F	Black F	Black F
Turns	3000	438	470	20	6	10	10	6
Taps	1500	400	376-282	—	—	5	5	3
Wind. Lgth.	1.75							
Wire Size	#34	#22	#26	#18	#18	#17	#17	#18
T. P. L.	25-14	59-8	94-5L					
Finish		WIRE ONLY						
Type Lead	#20 Pencil				WIRE ONLY			
Lead Lgth.	9"	3"	3"	9"				
Layer Insul.	double 16#	50#	50#					
Test Volt.								
Wrapper	1000 NC		2000 GA				Double	

TUBE 70007 IMPREGNATION VARNISH

CORE 1 1/4 X 1 1/4 GA. GRADE STACK

MOUNTING AF

sec - filaments - leads
 Pri - "wire only" to lead in panel
 finish pri into position



DESIGNED BY *Gew*

DATE 12/6/57

Auto Transformer

120 - 103 - 105V

SPEC. NO. 3650

Continued

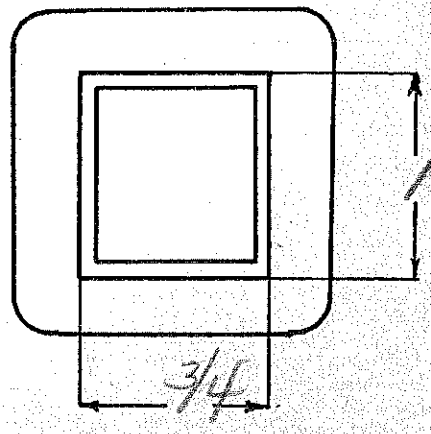
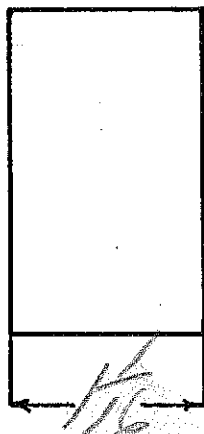
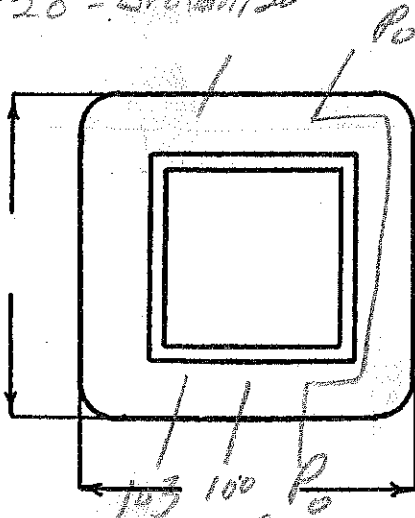
Winding	PRI					
Turns	720	144				
Taps		22				
Wind. Lgth.	7/8					
Wire Size	#29	#24				
T. P. L.	66	36				
Finish						
Type Lead	470 Part Braid					
Lead Lgth.	9'	9'				
Layer Insul.	30#	50#				
Test Volt.						
Wrapper		26005BA				

TUBE 5407 IMPREGNATION VARNISH

CORE 3/4" GA. 24 GRADE D STACK 2x2

MOUNTING D

- 70 - White
- 100 - Black
- 103 - Yellow
- 120 - Brown/20



DESIGNED BY Grewer

DATE 4/20/37

Ep - 120V
 Es - 12V - 1amp

114 turns!
 74
 7.33

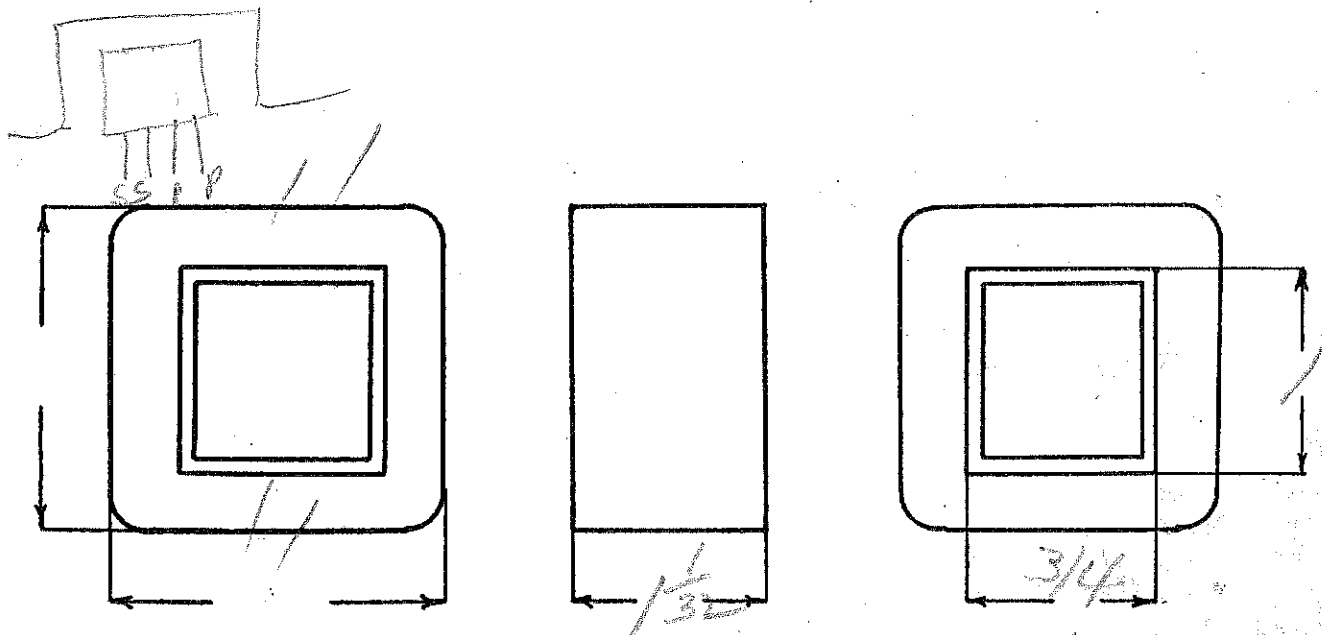
SPEC. NO. 3651

Winding	P	S				
Turns	880	102	+5/114	114		
Taps						
Wind. Lgth.	9/8					
Wire Size	#30	#23				
T. P. L.	74-12	34-3				
Finish						
Type Lead	#20 P/B					
Lead Lgth.	12"	12"				
Layer Insul.	30#	50#				
Test Volt.						
Wrapper	100% VC	260050A				

TUBE 52007 IMPREGNATION VARNISH

CORE 3/4" GA. 24 GRADE STACK 2x2

MOUNTING 0



DESIGNED BY *Sw*

DATE 11/29

Ep - 115

Eg - 6.3V - 1.25 amps

N_g = 1.18

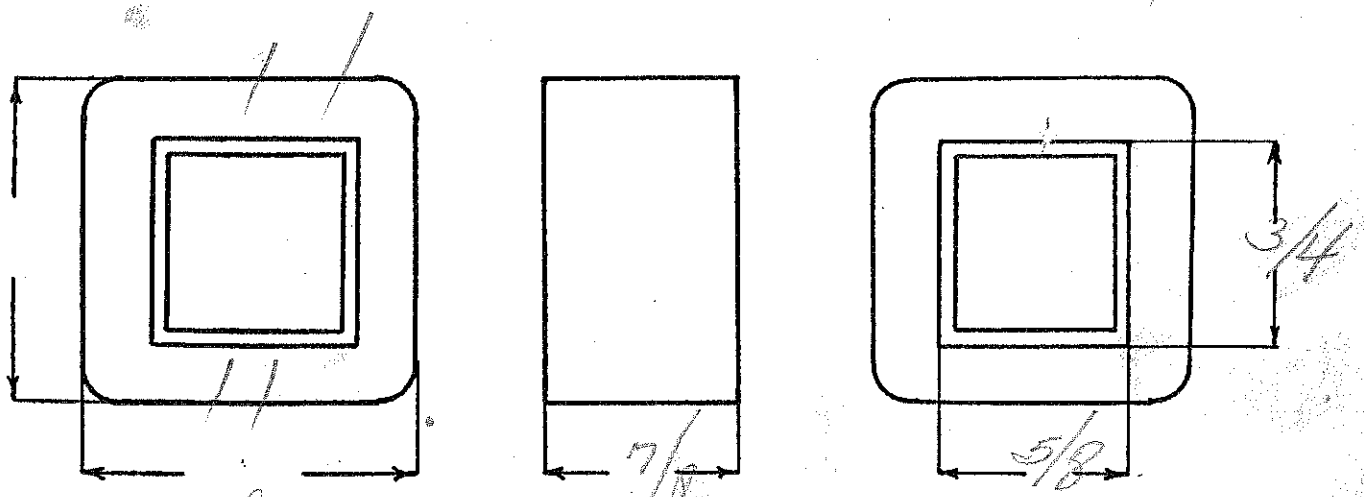
SPEC. NO. 3652

Winding	P	S				
Turns	1360	87				
Taps	-	-				
Wind. Lgth.	3/4					
Wire Size	#34	#22				
T. P. L.	97-14	25-4				
Finish						
Type Lead	#20 Perlon					
Lead Lgth.	10"	10"				
Layer Insul.	30#	50#				
Test Volt.						
Wrapper	2100530	2100530				

TUBE	4k007	IMPREGNATION	VARNISH
------	-------	--------------	---------

CORE	5/8	GA.	24	GRADE	2	STACK	2x2
------	-----	-----	----	-------	---	-------	-----

MOUNTING uncard



DESIGNED BY *[Signature]*

DATE 12/7/57

Ep - 120-176

Es - 3000V - 400ms

SPEC. NO. 3653

Continues

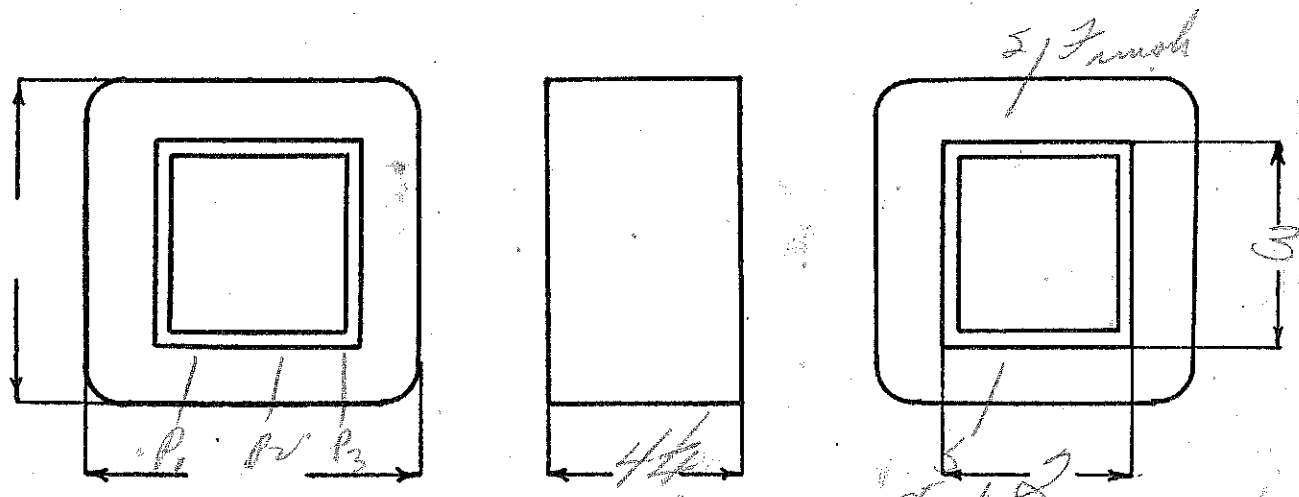
Winding	SEC	P	P			
Turns	3040	120	56			
Taps						
Wind. Lgth.	3 3/4	4"				
Wire Size	#24	#11	#15			
T. P. L.	160-19	4 layers!		close winding		
Finish						
Type Lead	Finishers Note = see below for sec finish					
Lead Lgth.						
Layer Insul.	double					
	50H	007K				
Test Volt.						
Wrapper	2L005BA 44007VC 21005BA		31005BA			

TUBE 10L007 IMPREGNATION VARNISH

CORE 2x3 GA. GRADE STACK

MOUNTING C - open - two horiz brackets - alum. print

Sec Mast. wire only - ground to core
 Sec Finish - 18" of 20 Dulac - cover with VC for 6"



DESIGNED BY glw

DATE 12/4/37

Ep-120
ES-15.4V-1amp

SPEC. NO. 9654

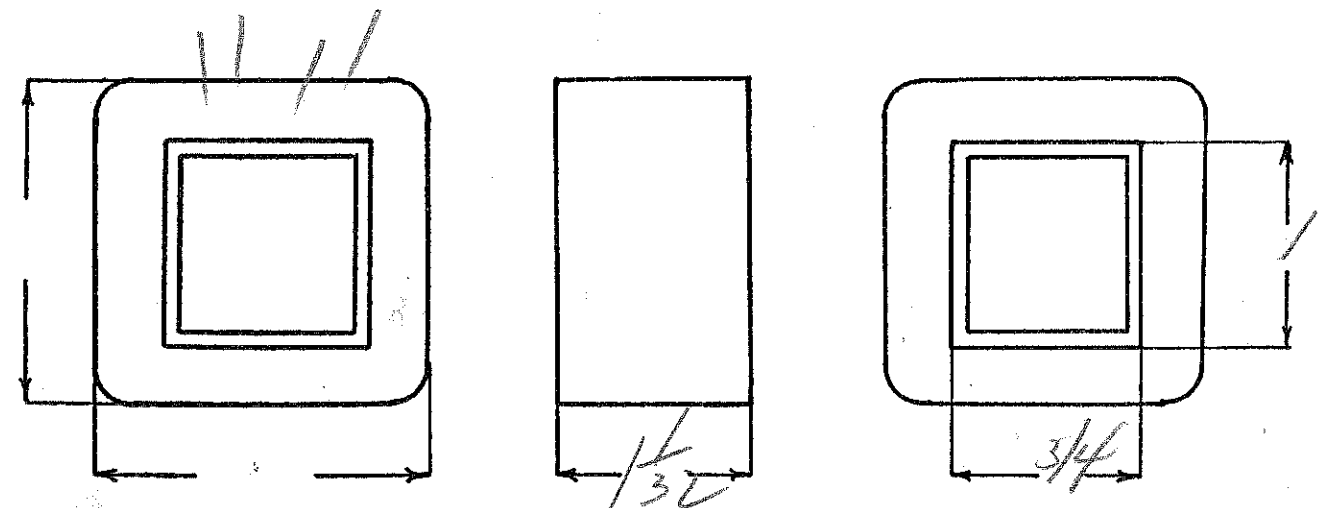
Winding	P	S				
Turns	880	114				
Taps						
Wind. Lgth.	7/8					
Wire Size	#30	#23				
T. P. L.	24-1229-4					
Finish						
Type Lead	#20 P/B					
Lead Lgth.	12"	12"				
Layer Insul.	30#					
Test Volt.						
Wrapper	1600V/C	2005BA				

TUBE 152007 IMPREGNATION Varnish

CORE 3/4x1 GA. 24 GRADE STACK

MOUNTING D

leads down.
case with leads downward



DESIGNED BY *Gur*

DATE 12/2

Ep-110-120V

6.3V-4amps

5V-5amps

4:7

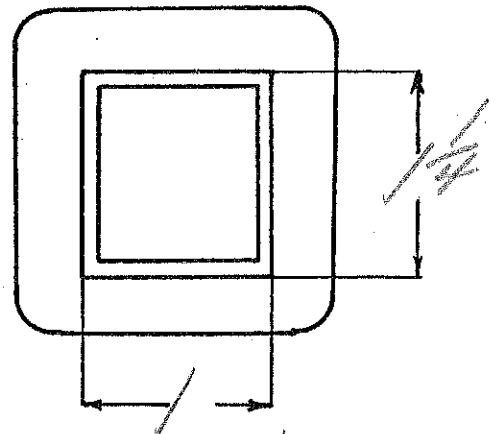
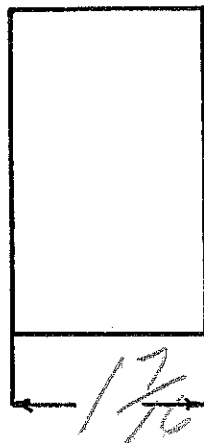
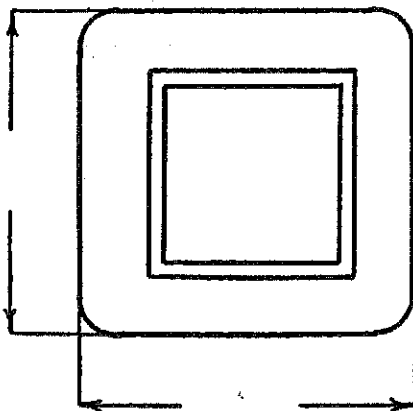
SPEC. NO. 3655

Winding	P	F ₁	F ₂				
Turns	560	32	26				
Taps	515	16					
Wind. Lgth.	1.25						
Wire Size	#26	#17	#16				
T. P. L.	65-9	1.52	1.52				
Finish							
Type Lead	#20 Pwr Bld	WIRES ONLY					
Lead Lgth.	9"	9"	9"				
Layer Insul.	50#						
Test Volt.		1250					
Wrapper	20056A	31056A	320056A				

TUBE 7007 IMPREGNATION VARNISH

CORE 1 1/4 GA. GRADE STACK

MOUNTING A



DESIGNED BY *GW*

DATE 12/3/37

Ep - 120 - 160V
 Es - 2000V - 30 ma

106

SPEC. NO. 3656

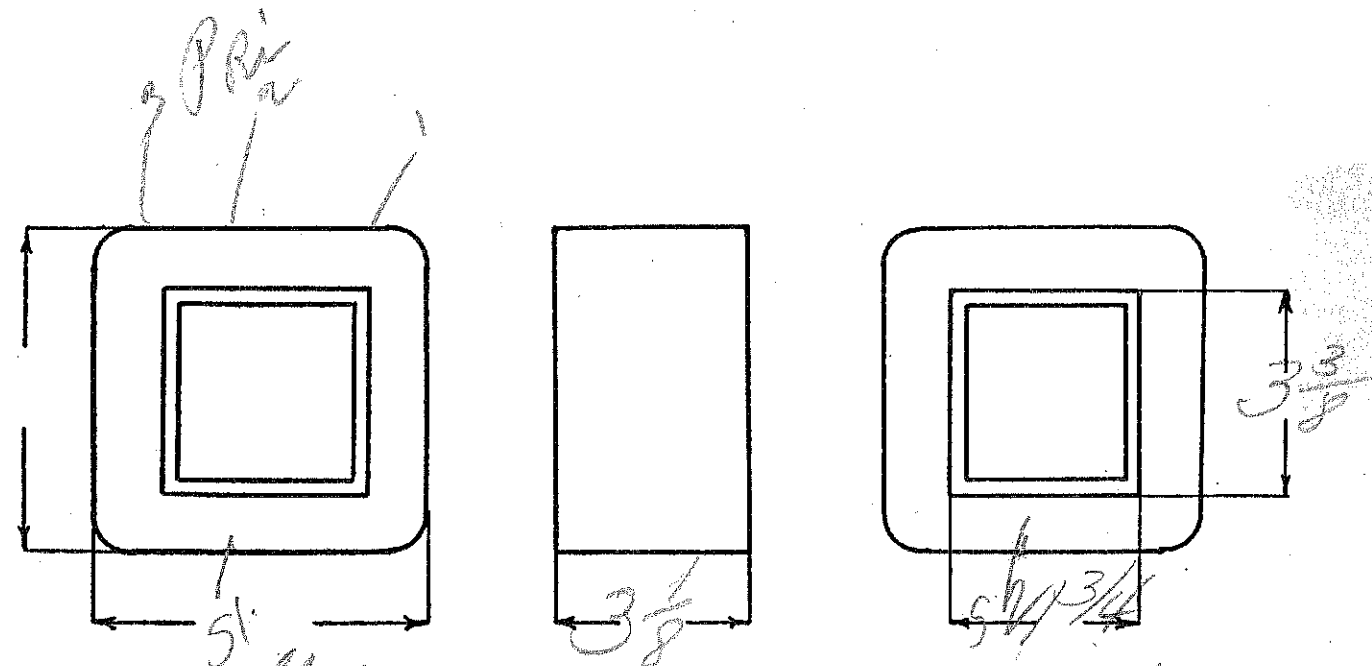
continuous

Winding	SEC	PR1	PR1			
Turns	2350	128	44			
Taps						
Wind. Lgth.	2 3/8					
Wire Size	#25	#13	#17			
T. P. L.	1/2 - 21	4L	2L			
Finish	WIRE ONLY					
Type Lead						
Lead Lgth.	6"	6"	6"			
Layer Insul.	double 50#	.007K				
Test Volt.	7500V					
Wrapper	210053A 21007VE 210053A					

TUBE 10007+1007VE IMPREGNATION VARNISH

CORE 1/4 x 3 3/8 GA. GRADE STACK

MOUNTING C - Cast iron



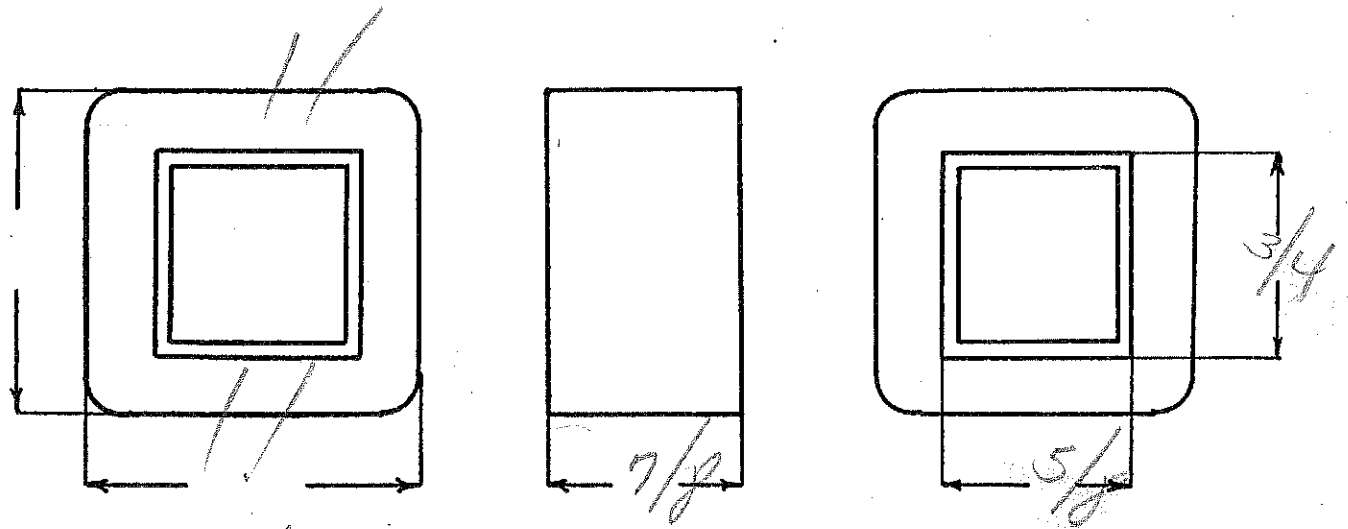
DESIGNED BY *gwr*

DATE 12/14/37

Ep-115
 Es-115V-70ma

SPEC. NO. 3457

Winding	P	5				
Turns	1360	1350				
Taps						
Wind. Lgth.	3/4					
Wire Size	#34	#34				
T. P. L.	99	99				
Finish						
Type Lead	#20 Pb/Pb					
Lead Lgth.	10"	10"				
Layer Insul.	30#	30#				
Test Volt.						
Wrapper	10070C	21005GA				
TUBE	41007		IMPREGNATION		Varnish	
CORE	5/8	GA. 24	GRADE D		STACK 2 1/2	
MOUNTING	unusual					



DESIGNED BY gw

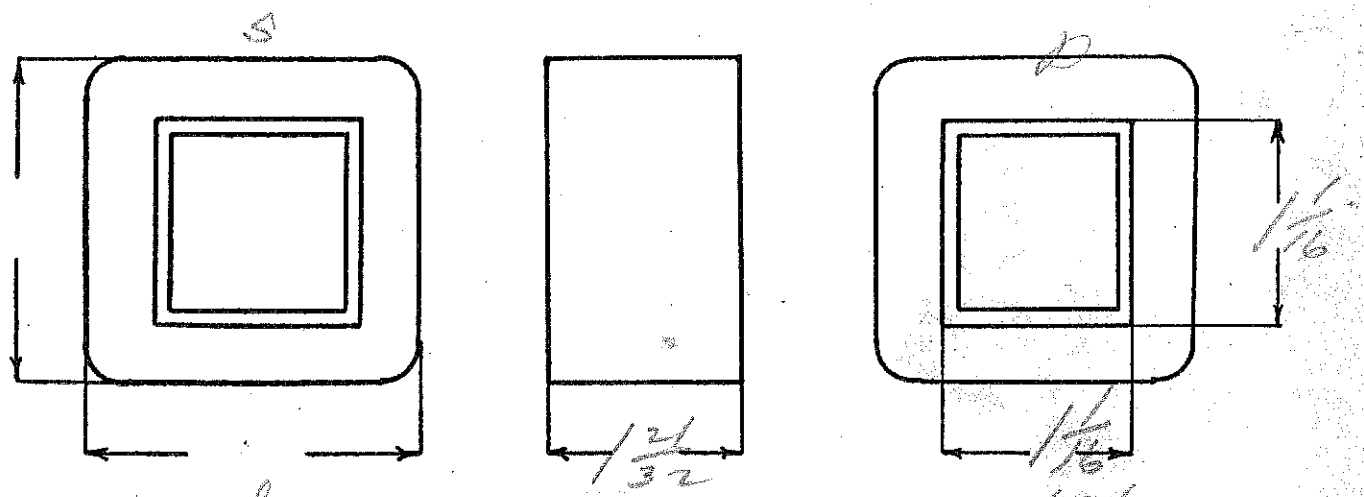
DATE 12/6/37

Ep - 12VCT - 6Vdc source

VCT to deliver 300dc at input to motor - 75 ma
 using synchronous vibrator - 8000 rpm
 with 0304

SPEC. NO. 3658

Winding	SEC	SHIELD	DR1			
Turns	4400	1	70			
Taps	2200		35			
Wind. Lgth.	1 15/32					
Wire Size	#33	5HIM	#16			
T. P. L.	171-26	STOCK	25.3			
Finish						
Type Lead	#20					
Lead Lgth.	9"		W. A. Sleeving			
Layer Insul.	Double 20#		005			
Test Volt.	2500					
Wrapper	2007V	20050A	20050A			Double
TUBE	17007		IMPREGNATION			Varnish
CORE	1 1/16 x 1 1/16	GA.	GRADE			STACK
MOUNTING	A - Cover lamination with shield					



DESIGNED BY *Gweaver*

DATE 12/4/37

115V - 24 Volt

(#10200)

GENERAL CONTROLS CO.

(SIL 36720)
In 230V-24V

10

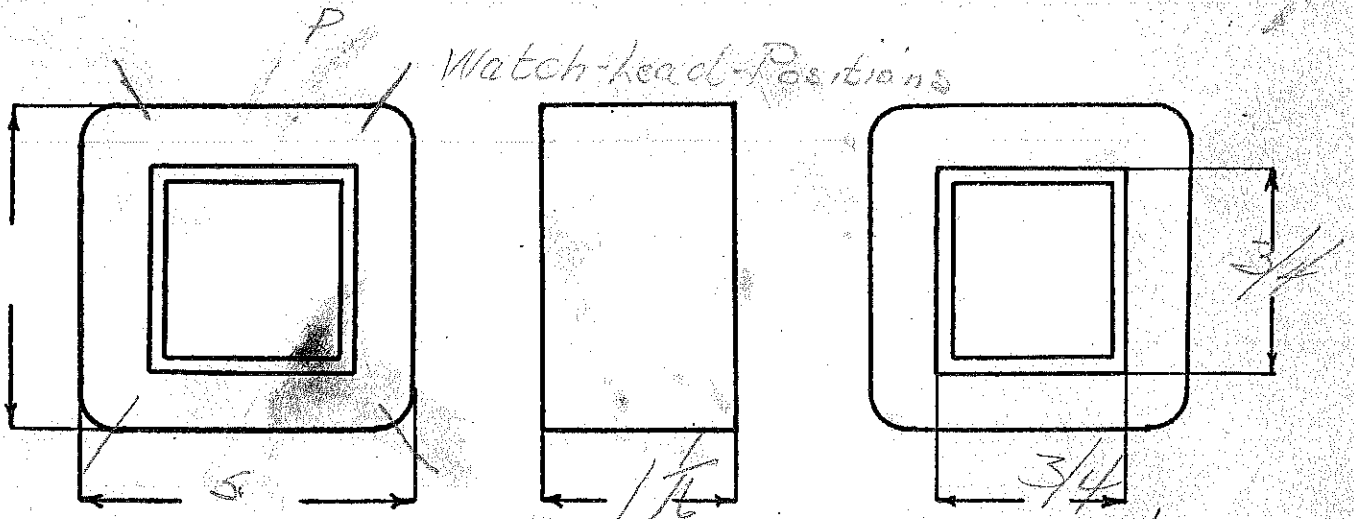
SPEC. NO. 3659

Winding	P	S				
Turns	1150	252				
Taps						
Wind. Lgth.	7/8	—				
Wire Size	#32	#25				
T. P. L.	89-13	42-6				
Finish						
Type Lead	500 Braid thru sleeve					
Lead Lgth.	5"	5" out of coil				
Layer Insul.	30#	40#				
Test Volt.						
Wrapper	1007VC	2005GA				

TUBE	5L007	IMPREGNATION	VARNISH
------	-------	--------------	---------

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

MOUNTING D-leads - leads downward



DESIGNED BY *gww*

DATE 12/6/37

Ep-105-115-125
 Es-1200VCT
 Ef1-Ef2-7.5V
 Ef3-3.1V

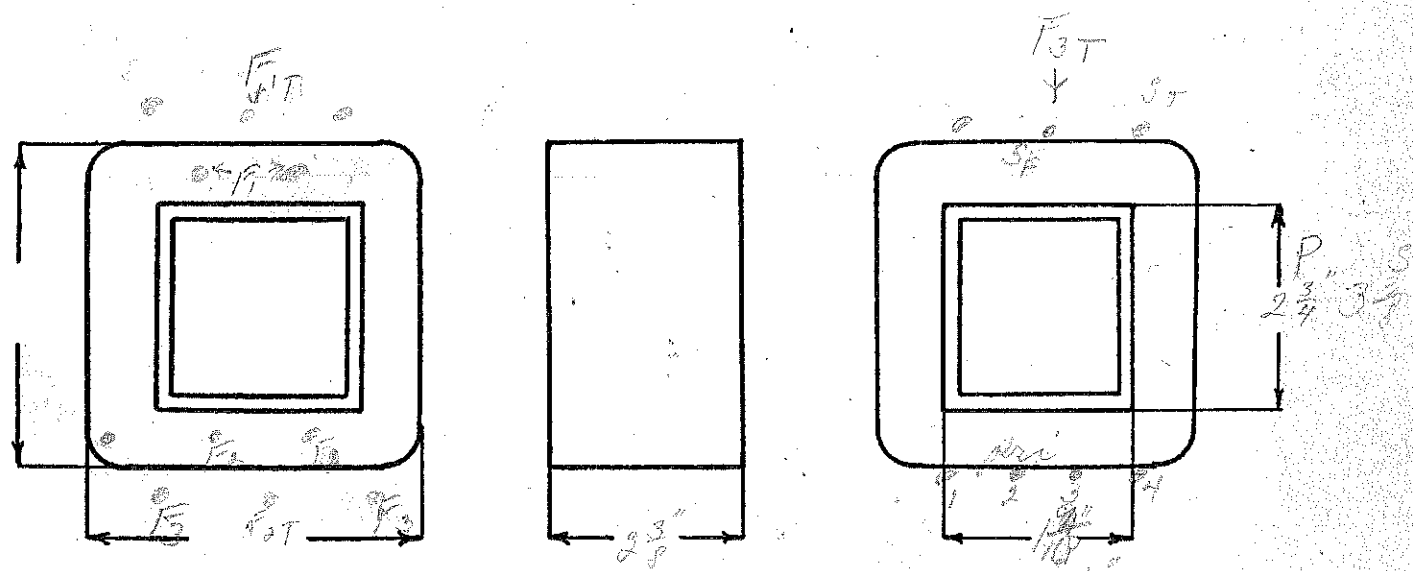
reverse

N_{1/2}-156

SPEC. NO. 3660

Winding	Pri	SHIELD	Sec	F ₁	F ₂	F ₃	
Turns	195	167	2000	12	12	5	
Taps	164-179		1000	6	6	2 1/2	
Wind. Lgth.			1 1/16	more longer			
Wire Size	17	#30	#30	#45CCF	#19 3.C.C. E	#14 Braided	
T. P. L.	40-5		167-12				
Finish							
Type Lead							
Lead Lgth.							
Layer Insul.	007K		double 20+				
Test Volt.							
Wrapper	9L007VC	1L007VC	2L0076A	✓	✓	2L0076A	
TUBE	9L007			IMPREGNATION		Varnish	

CORE GA. GRADE STACK
 MOUNTING D *as furnished by customer*



DESIGNED BY

DATE

3-24

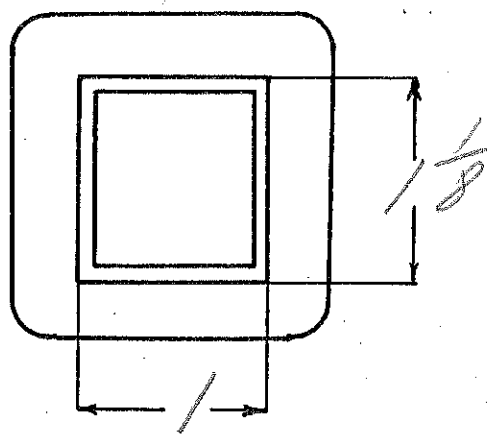
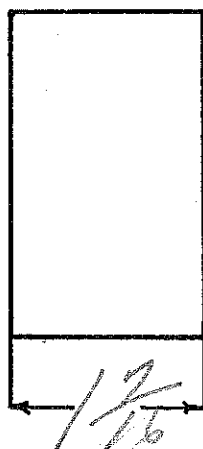
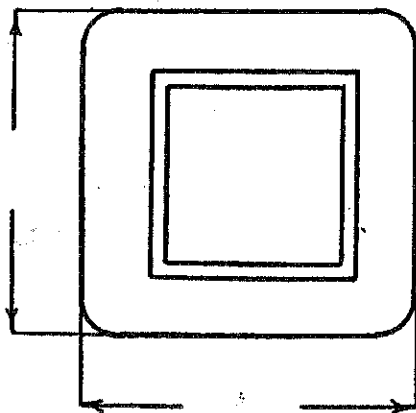
Ep-110-170

EF-6.3V 5 amp

Ep 2.5V CT-6 amp

SPEC. NO. 3661

Winding	P	F	F				
Turns	595	34	14				
Taps	550		7				
Wind. Lgth.	1.25						
Wire Size	#26	#16	#15				
T. P. L.	67-10						
Finish							
Type Lead	#20 P/B	WIRE ONLY					
Lead Lgth.	9"	9"	9"				
Layer Insul.	40#						
Test Volt.							
Wrapper	21005BA	21005CA	21005EA				
TUBE	52007			IMPREGNATION	VARNISH		
CORE	1/16"	GA.	GRADE	STACK			
MOUNTING	A						



DESIGNED BY

DATE

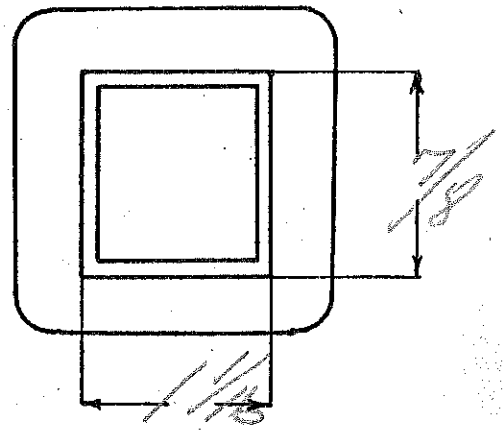
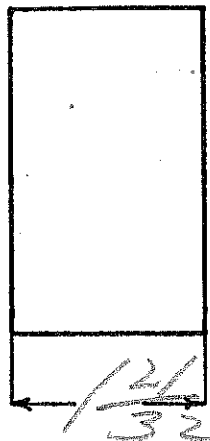
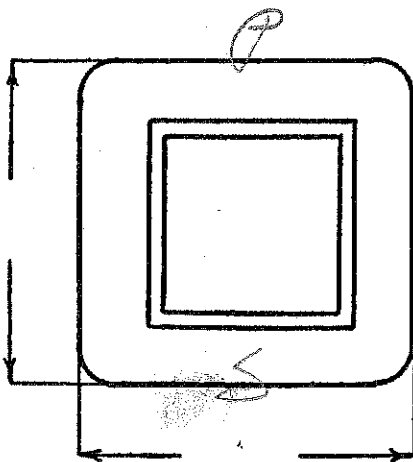
Ep-110-120V

Es -14V-4amp

60

SPEC. NO. 3662

Winding	PR1	FK					
Turns	720	93					
Taps	660	-					
Wind. Lgth.	1 ¹⁵ / ₃₂						
Wire Size	#25	#16					
T. P. L.	67-11	4L					
Finish	WIRE ONLY						
Type Lead							
Lead Lgth.	4"	4"					
Layer Insul.	50#						
Test Volt.							
Wrapper	3L005GA	3L005GA					
TUBE	7L007		IMPREGNATION		Varnish		
CORE	1 ¹ / ₁₆ x 7 ¹ / ₈	GA.	GRADE		STACK		
MOUNTING	F						



DESIGNED BY

Sw

DATE

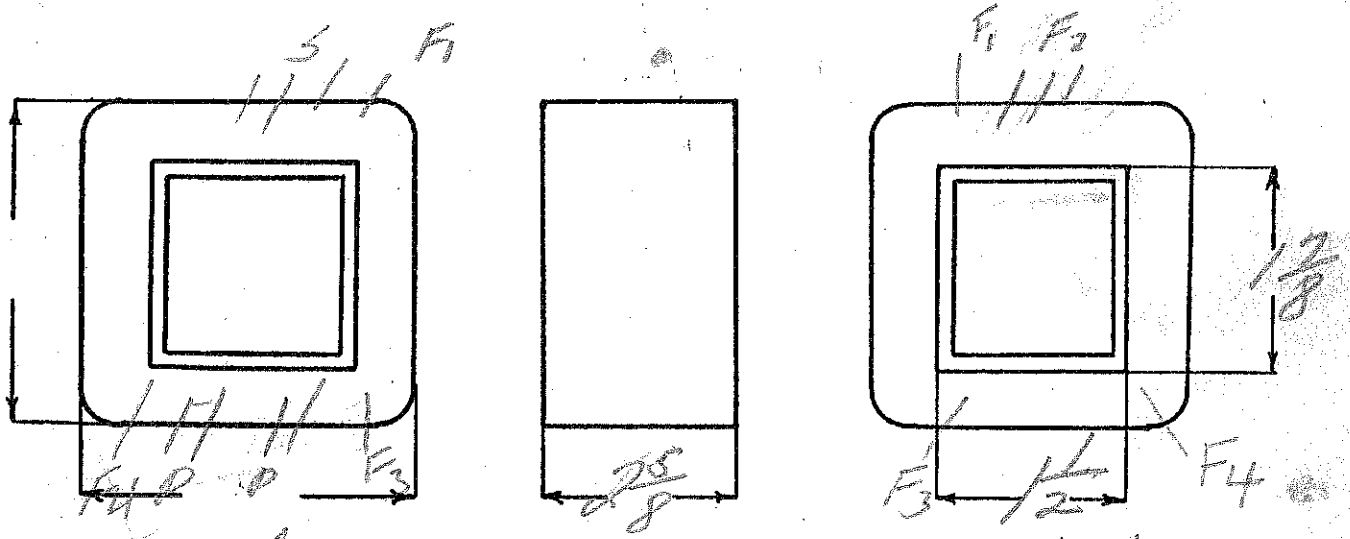
12/9/37

Ep - two 125V windings for series or parallel
 E3 - 1000 VCT - 250ma
 Ef - 5V - 3amp
 EF - 2.5V - 8amp
 EF - 2.5VCT - 10amp
 EF - 2.5V - 3amps

SPEC. NO. 3663

Winding	SEC	SHIELD	PRI ₁	PRI ₂	F ₁	F ₂	F ₃	F ₄
Turns	2300	146	240	240	12	6	6	6
Taps	1150				-	3	-	-
Wind. Lgth.	2 1/4	✓	✓					
Wire Size	#28	#28	#21	#21	#18	#12	#12	#18
T. P. L.	146-16		63-4	63-4				
Finish								
Type Lead	#20 P. 20		#20 P. 20	✓	WIRES ONLY			
Lead Lgth.	9 1/2	8"	9 1/2	9 1/2	✓	✓		
Layer Insul.	double 30#		50#	50#				
Test Volt.								
Wrapper	21007VC	11007VC	11007VC 31 20	21005GA				31005GA Daculle
TUBE	91007			IMPREGNATION		Varnish		

CORE GA. GRADE STACK
 MOUNTING A



DESIGNED BY *Gur*

DATE 12/9/37

Ep - 117
 Es - 730 VOLT - 90 ma
 Ef - 5V - 2 amp
 Ef - 6.3V - 3.2 amp

45

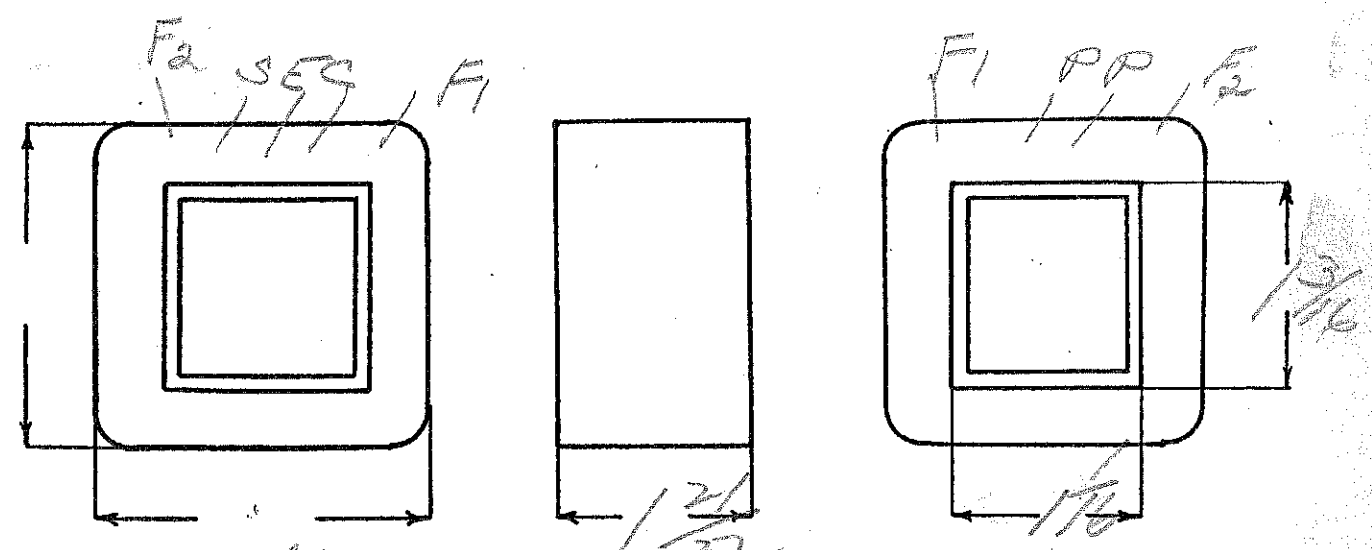
SPEC. NO. 3664

Winding	SEC	SHIELD	PRI	F ₁	F ₂		
Turns	3460	136	530	31	25		
Taps	1730			—	—		
Wind. Lgth.	15 3/32	✓	✓	✓	✓		
Wire Size	#33	#33	#24	#18	#20		
T. P. L.	173-20		62-9				
Finish							
Type Lead	#20 Par Br		#20 Par Br	WIRE ONLY			
Lead Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	double 10#		50#				
Test Volt.							
Wrapper	1200VC	1105VC	21005GA	✓	21005GA		

TUBE 72007 IMPREGNATION VARNISH

CORE GA. GRADE STACK

MOUNTING SA



DESIGNED BY Guelmer

DATE 12/8/37

$E_p = 250V$
 $E_s = 1800VCT-300M, dc$

$\frac{N}{f} = 2$

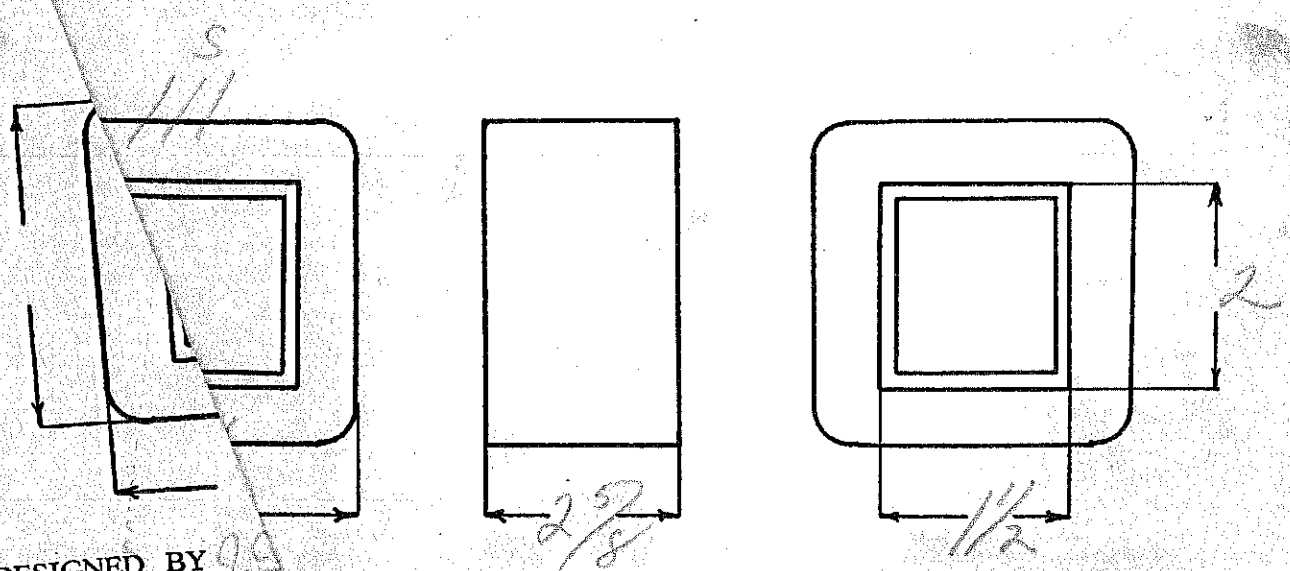
SPEC. NO. P-3665-230V

Winding	Sec	Pr 1				
Turns	3800	576	Black			
Taps	1300	460	Blue			
Wind. Lgth.	2 1/4	0 white				
Wire Size	#28	#21				
T. P. L.	147-26	65-9				
Finish						
Type Lead	Double	Double				
Lead Lgth.	9"	9"				
Layer Insul.	Double	50#				
Test Volt.	5000					
Wrapper	260056A	260056A				

TUBE 10L007 GK IMPREGNATION Double Varnish

CRE 1/2 X 2 GA. 24 GRADE D STACK 2 X 2

MOUNTING A



DESIGNED BY 29

DATE 2-7-39

Primary - 120V - 60 Cycle

Secondary - 1800V CT or 1600V CT @ 300 Ma.

(Primary Control)

SPEC. NO. P-3665

Winding	Sec.		Pri.			
Turns	3800		257			
Taps	1900		228			
Wind. Lgth.	2-1/8" = 2.125"		2 1/4" = 2.25"			
Wire Size	#28		#17			
T. P. L.	146 - 26L		46 - 6L			
Finish	93%		96%			
Type Lead	#80 Dulac		W.O.		VC TUBING OVER LEADS.	
Lead Lgth.	9"		9"		ANCHOR AT FINISHERS.	
Layer Insul.	D - 20#		007" GA .005" K		MICA SADDLE.	
Test Volt.	4500V		1250V			
Wrapper	2L .007" VC 3L .007" GA		2L .007" GA			

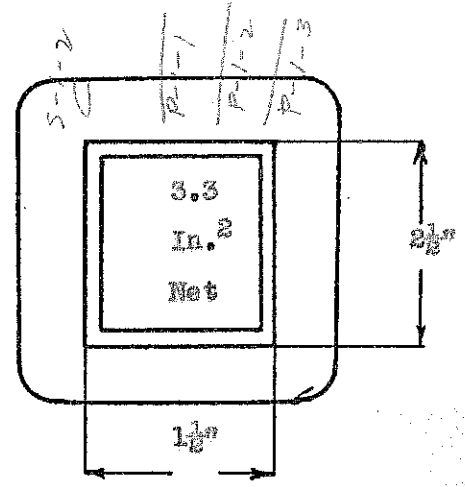
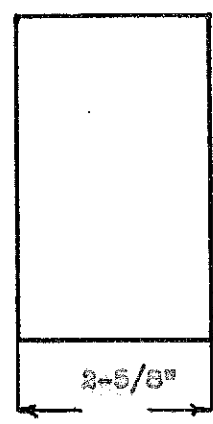
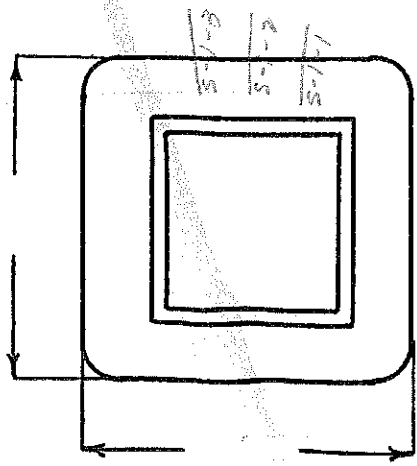
TUBE 10L - .007" VC / 1L - .007" VC IMPREGNATION DOUBLE VARNISH

CORE 1 1/8" x 2 1/8" E & I GA. 24 GRADE D STACK 2 x 2

MOUNTING "AA" - Fiber Grommets in Lead Holes.

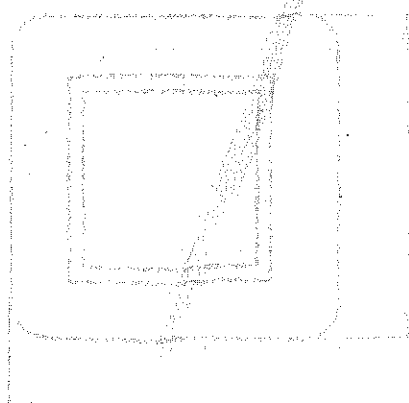
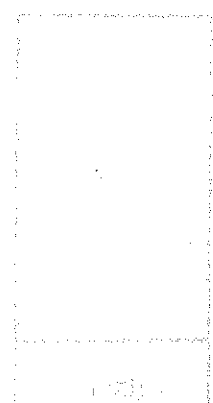
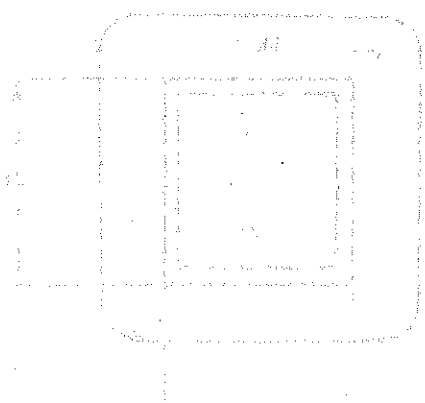
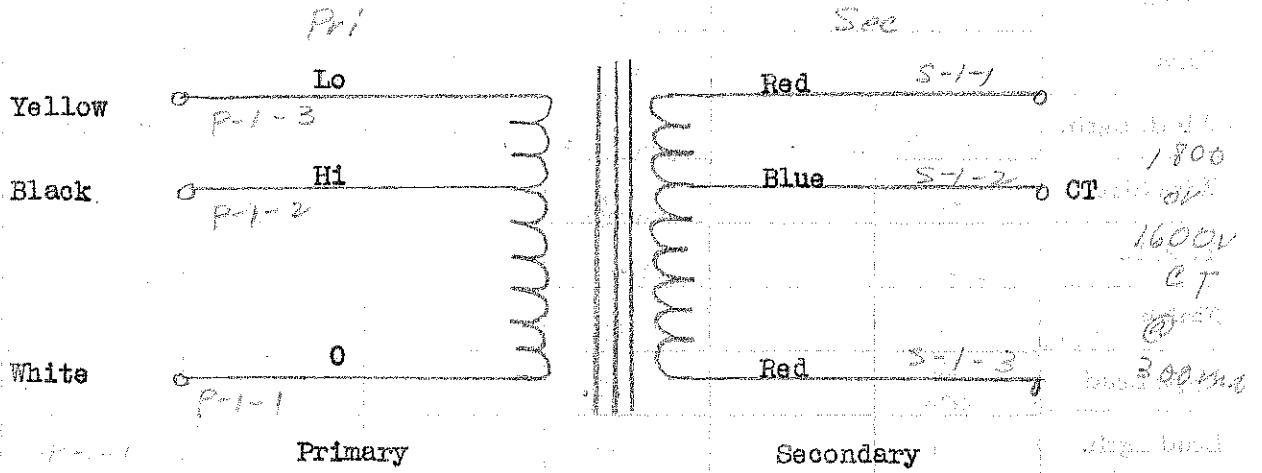
Cu = 889 - 715
 Fe = 59.8, 53.2 @ 60 Cycle
 TFV = 1.9, 2.14
 Wire Net = .725" (.735")
 .730

Sec. VA = 270
 Pri. VA = 344
 Pri. I = 2.87
 Efficiency = 87%
 COS θ = 90%



DESIGNED BY H. E. S., Jr.

DATE 7 - 29 - 41



Ep - 110 - 115 - 120
 Es - 2800V - 250 Ma
 Ef - 10.4V - 6.5 amps

Bristow

n/e 1.07

SPEC. NO. 3666

POWER

Winding	Sec.	Pri.	Fil.			
Turns (870)	3240	129 183	12	7 1/2%		
Taps	-	118	6			
Wind. Lgth.	2 1/4		2 1/4			
Wire Size	#27	#13	#14			
T. P. L.	135-24	4L	1-L			
Finish	W.O.		35%	6 in dulac st. and fin.		
Type Lead	W.O.	W.O.	W.O.			
Lead Lgth.	4"	4"	4"			
Layer Insul.	double 40#	.0076A .007K				
Test Volt.	7500V					
Wrapper	4I007VC 3I005GA	3I005GA	2I005GA 1I010RR			

TUBE	10I007 + 1I007VC	IMPREGNATION	VARNISH
------	------------------	--------------	---------

CORE	1 3/4 X 3 1/4	GA.	24	GRADE	STACK
------	---------------	-----	----	-------	-------

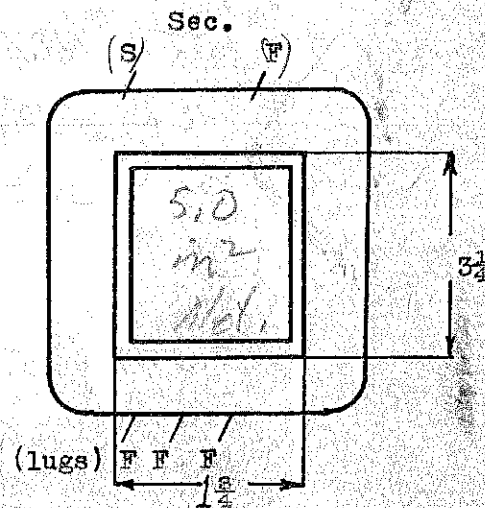
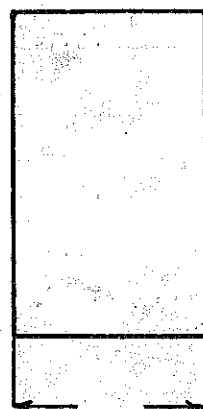
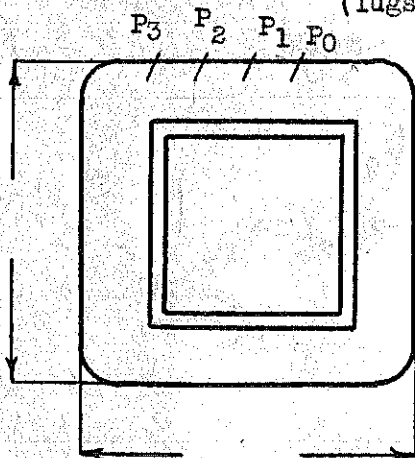
MOUNTING ^U - Cadmium brackets as on reverse side- secondary to bakelite strip

Cu = 803 - 552 - 632
 brackets with sec. and fil. up

Σ 3 sec VA = 768
 Pri VA = 1030
 Pri I = 9.37A

(over)

Fc = 70 @ 60Hz
 TRV = 1.07
 Wire dia = 0.940 / 0.930"
 (lugs)

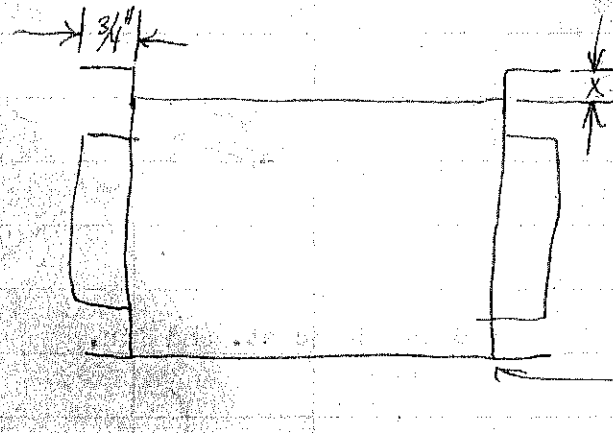


DESIGNED BY G. W.

DATE 5

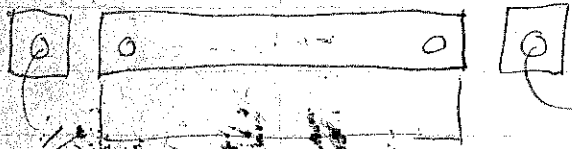
#2

.0173



3/8" absolute max.
to top of bracket
brackets similar to
those on 3312 U

flush



1/4" clearance

1/4" clearance

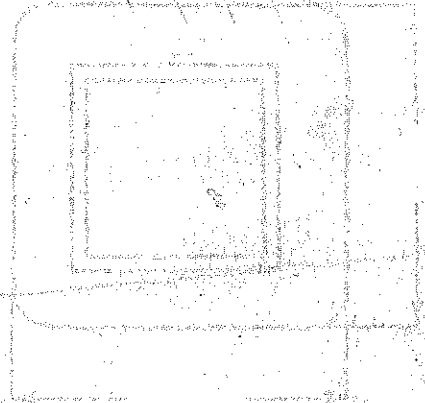
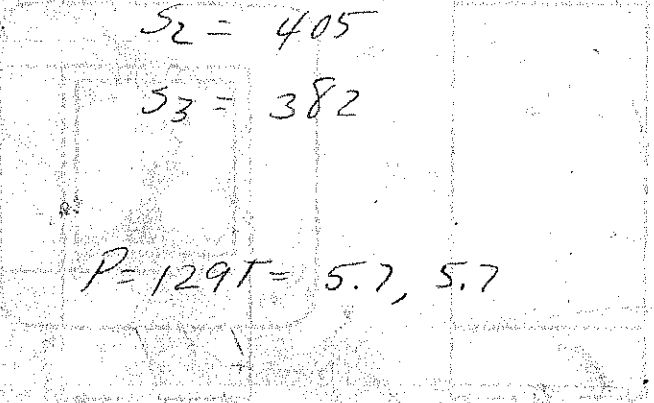
Ratio = 8:1

$$S_1 = 417$$

$$S_2 = 405$$

$$S_3 = 382$$

$$P = 129T = 5.7, 5.7$$



$E_p = 220-230-240$
 $E_s = 2800V - 250mA$
 $E_f = 10.4V - 6.5Amp$

1/10/35

SPEC. NO. 3666-230V

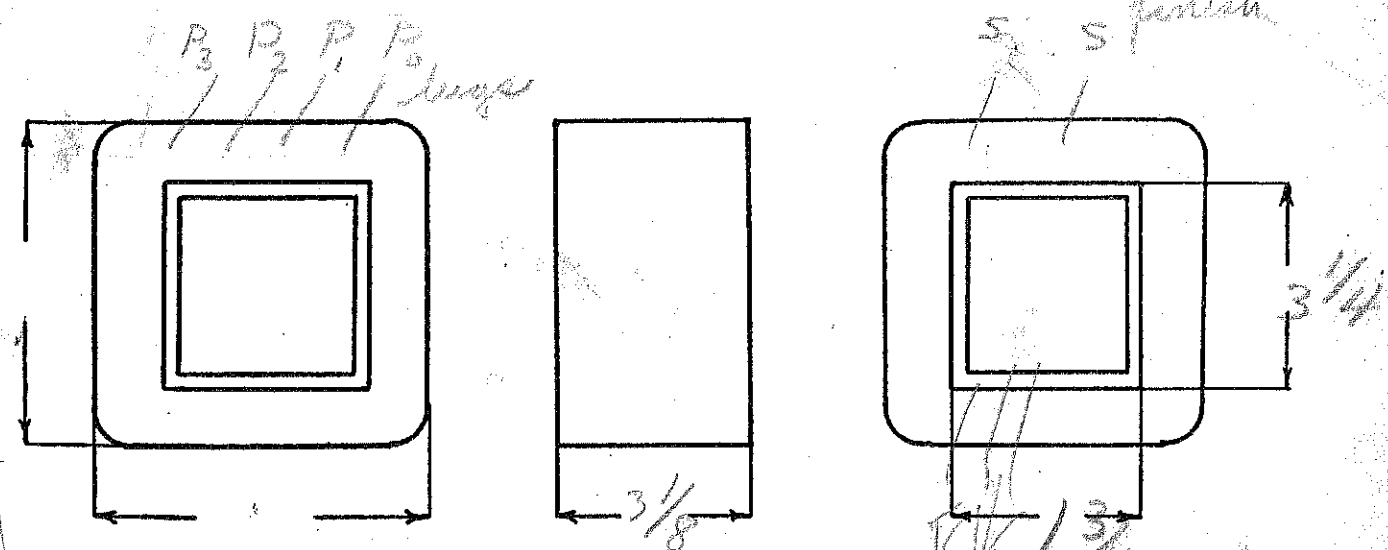
Winding	Sec	Pri	Fil			
Turns	3240	258	12			
Taps	—	236-246	6			
Wind. Lgth.	2 1/4	—	—			
Wire Size	#27	#16	#14			
T. P. L.	135-24	52-5				
Finish						
Type Lead	W.O.	W.O.	W.O.			
Lead Lgth.	4"	4"	4"			
Layer Insul.	double 110	007K				
Test Volt.	7500V					
Wrapper	4L007VC 3L0056A	3L0056A	3L0056A			

TUBE 10L007 + 1L007VC IMPREGNATION Varnish

CORE 3/4 x 3/4 GA. 24 GRADE D STACK 2x2

MOUNTING U - Brackets as on reverse side.

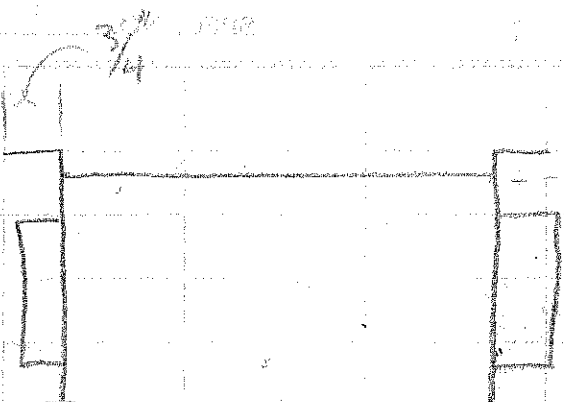
*Sec to bakelite strap
Cadmium*



DESIGNED BY JCS

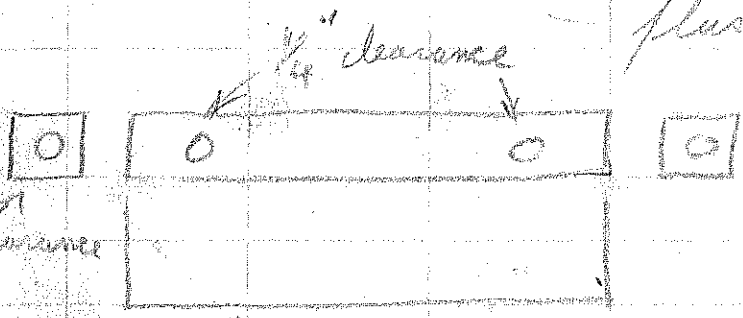
(over)

DATE 1-10-35

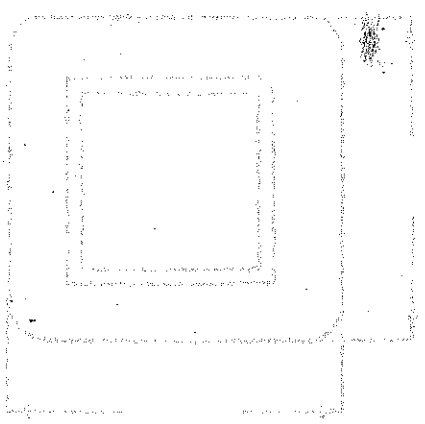
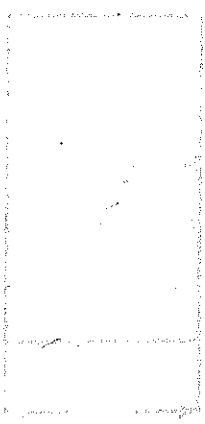
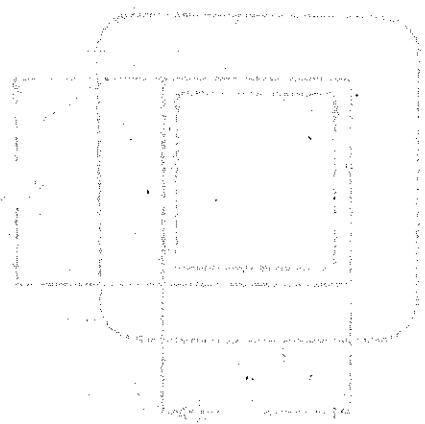


$\frac{1}{2}$ "

Baskets similar
to those on 3312



flush



Part no 3458A except for 24Vdc

Ep- 24Vdc

ES- 800VGT 150 ma

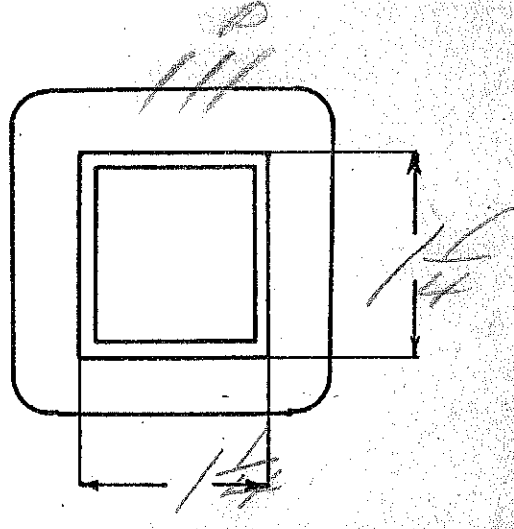
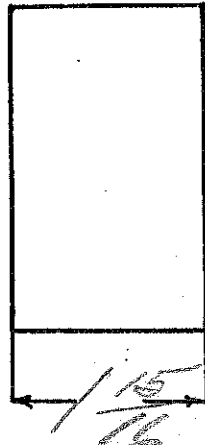
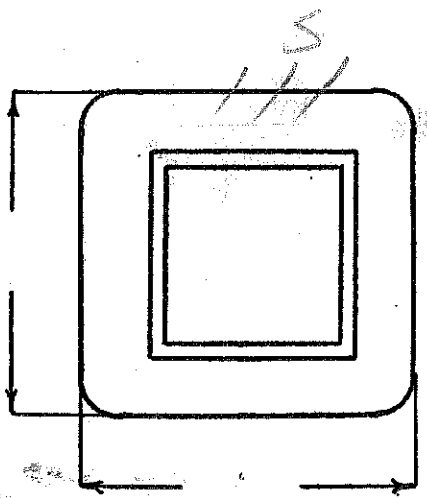
SPEC. NO. 3667

Winding	SEC	SHIELD	PRI			
Turns	4000	1	84			
Taps	2000		42			
Wind. Lgth.	1.75					
Wire Size	#30	Cross Shield	#16			
T. P. L.	145-28					
Finish						
Type Lead	#20 Tin Cu	Sil Br	W.O.			
Lead Lgth.	9"	3"	9"			
Layer Insul.	double 16#					
Test Volt.						
Wrapper	21007VC	21005GA	21005BA			

TUBE	71007H1007VC	IMPREGNATION	VARNISH
------	--------------	--------------	---------

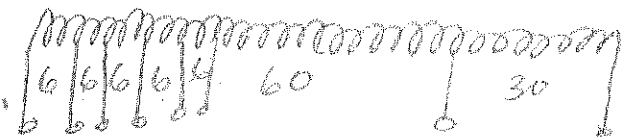
CORE	GA.	GRADE	STACK
------	-----	-------	-------

MOUNTING A - Copper strip over laminations



DESIGNED BY *SW*

DATE 12/13/37



auto transformer - 20 amp intermittent

Continuous

13

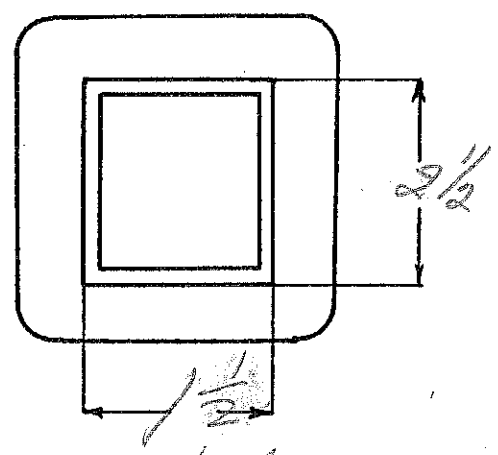
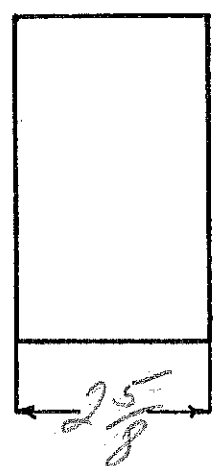
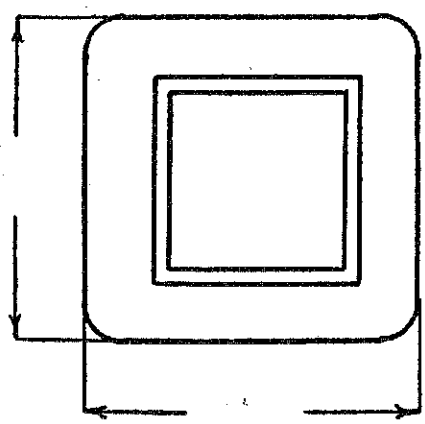
SPEC. NO. 3668

Winding							
Turns							
Taps							
Wind. Lgth.							
Wire Size	#12	#13	#11				
T. P. L.	16	3	3				
Finish							
Type Lead							
Lead Lgth.							
Layer Insul.							
Test Volt.							
Wrapper							

TUBE IMPREGNATION

CORE GA. GRADE STACK

MOUNTING



DESIGNED BY

GM

DATE

10/17/37

Ep - 110-115-120
 E3 - 2100V - 300 ma
 EF - 10V - CT - 7.75 amps

116

SPEC. NO. 3669

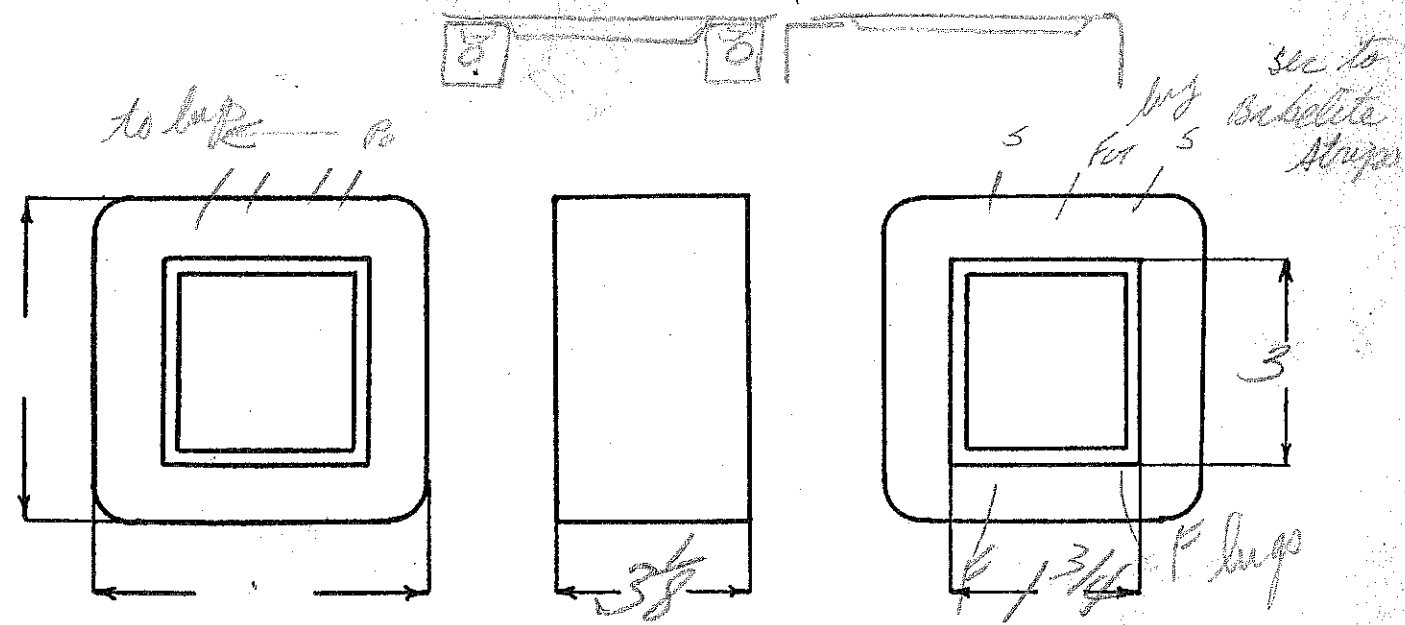
Winding	SEC	PRI	FIL			
Turns	2600	140	13			
Taps	-	134-128	6			
Wind. Lgth.	2 1/2	2 1/2				
Wire Size	#26	#13	#13			
T. P. L.	13-20	5L				
Finish		WIRE ONLY				
Type Lead						
Lead Lgth.	6"	3"	3"			
Layer Insul.	Double 50#	007K				
Test Volt.						
Wrapper	3L007VC 3L005BA	3L005BA				

TUBE 10L007 + 14007VC IMPREGNATION VARNISH

CORE GA. GRADE STACK

MOUNTING U-steel brackets with extra brackets

above



DESIGNED BY *Law*

DATE 12/20/37

P - 120V - 60W - 115V Ins - P-S - 30,000V working
 S1 - 120V - 460 watts S1-S2 - 10,000V working
 S2 - 144V - 146 watt

1.5

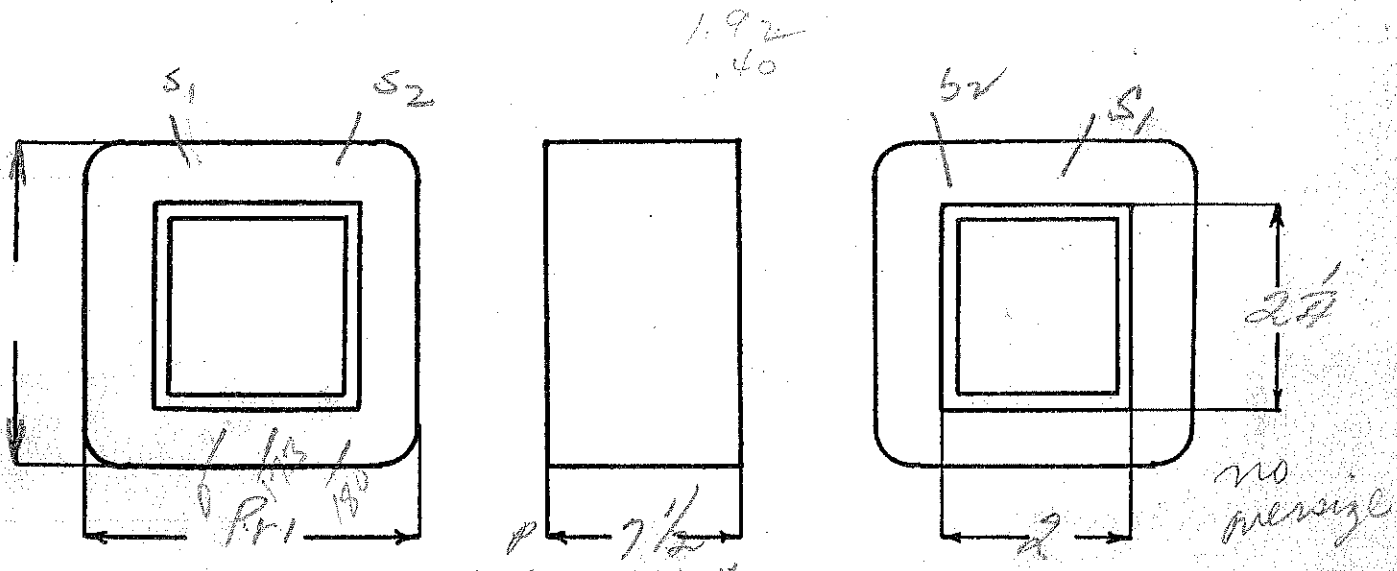
SPEC. NO. 3670

Winding	P	S1	S2
Turns	180	192	22
Taps	173	-	-
Wind. Lgth.	7"	5 1/2"	square
Wire Size	#13	#16	#14
T. P. L.	90-24	24	
Finish	WIRE ONLY		
Type Lead			
Lead Lgth.	10"	10"	10"
Layer Insul.	20007K		
Test Volt.			
Wrapper	20007K 10007V 20007K	7007K 5007V 7007K	20007K 10007V 20007K } end paper only
TUBE	10007	IMPREGNATION	OIL FILLED

CORE GA. GRADE STACK

MOUNTING Special steel case - bakelite top - oil filled

short and long E oil = .85



DESIGNED BY G.W. wrapper S1 6 1/4" wrapper S2 5"

DATE 12/21/37

Bidg Trans No 83 Tubes - 003320
 GP - 105-110-115-120
 EF1 - 5V-6amp
 EF2 - EF3 - 5V-3amp

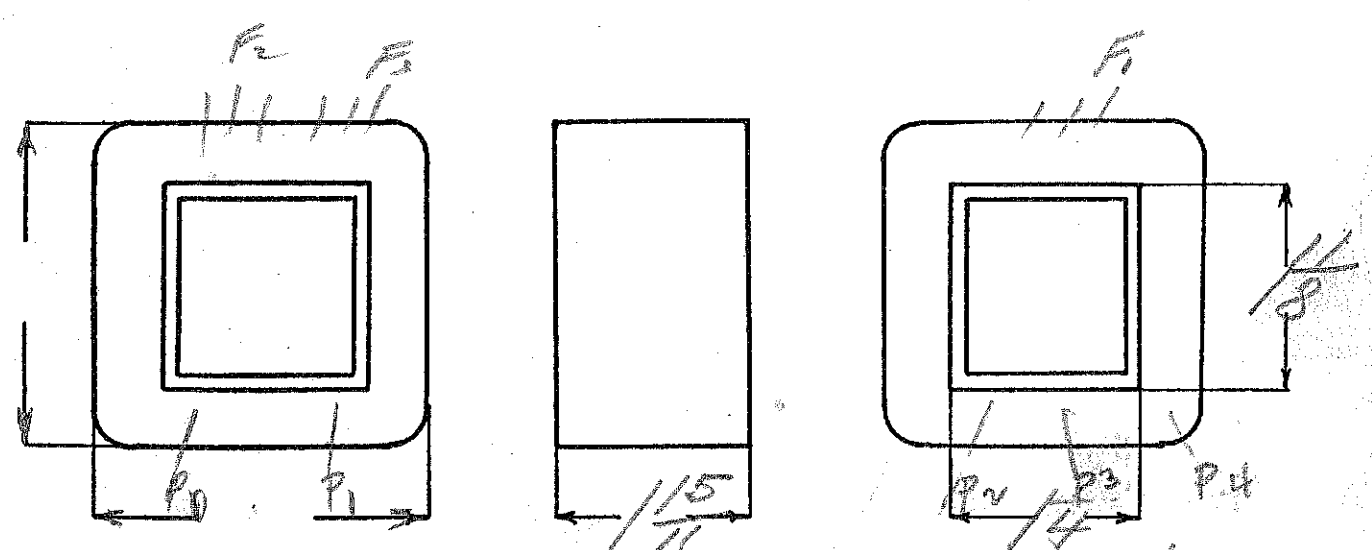
SPEC. NO. 3671

Winding	P		F ₁	F ₂	F ₃		
Turns	513 492		24	24	24		
Taps	471 450		12	12	12		
Wind. Lgth.	1.75						
Wire Size	#25		#15	#18	#18		
T. P. L.	80-5.1Wt. ^{then} finish						
Finish	WIRE ONLY						
Type Lead							
Lead Lgth.	3"	✓	✓	✓	✓		
Layer Insul.	50#						
Test Volt.							
Wrapper	21007VC 310076A		21007VC 310076A	21007VC 310076A	21007VC 310076A		

TUBE 7L007 IMPREGNATION VARNISH

CORE GA. GRADE STACK

MOUNTING B



DESIGNED BY SW

DATE 12/20/37

230V to 24V

(#10200-B)

GENERAL CONTRACTOR

(see 3.6.590)

SPEC. NO. 3672

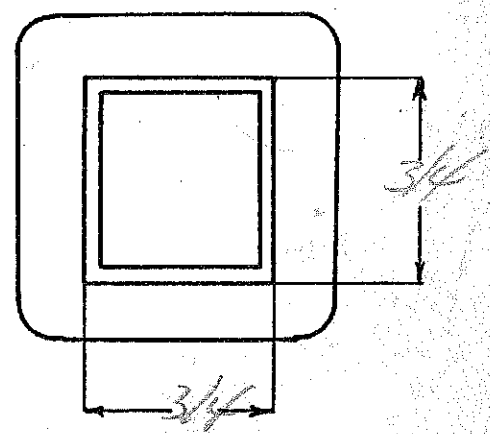
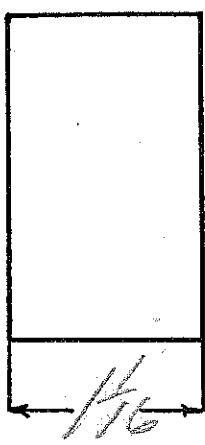
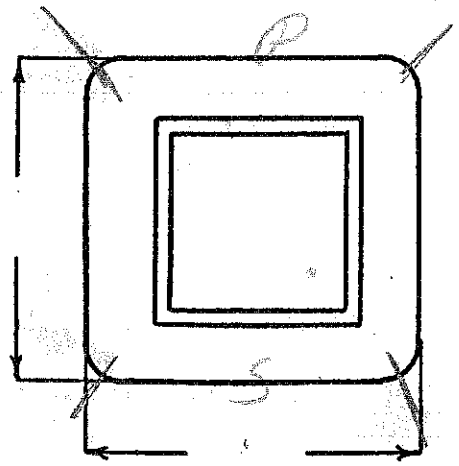
Winding	P	S				
Turns	2300	252				
Taps	-	-				
Wind. Lgth.	7/8	✓				
Wire Size	#35	#25				
T. P. L.	128-18	42				
Finish	452 or - thru small sleeve					
Type Lead	-	-				
Lead Lgth.	5"	5" out of coil.				
Layer Insul.	30#	40#				
Test Volt.	-	-				
Wrapper	1407 VC	2100 5BA				

TUBE 52007 IMPREGNATION Parallel Greenish

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

MOUNTING D - Leads

Note lead positions



DESIGNED BY *EW*

DATE 12/17/37

EP-10
 E3 - 2.5V - 2amps
 E4 - 7.5V - 4amps

4/6

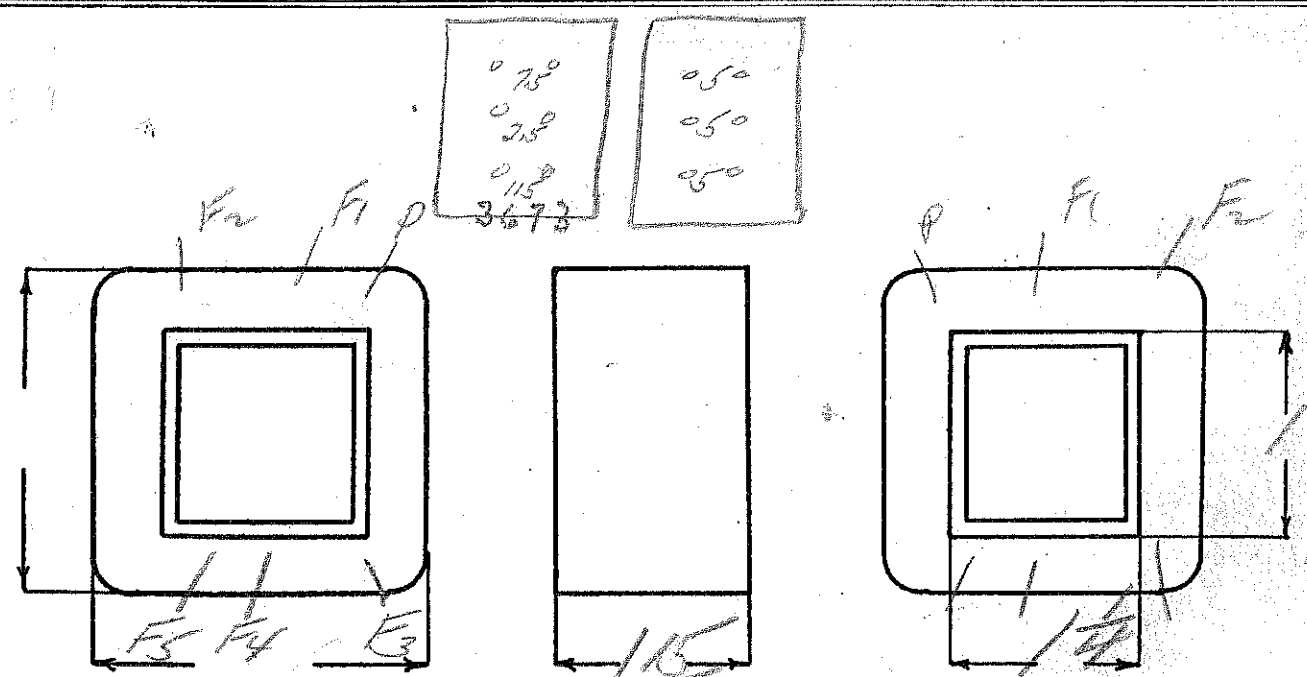
E3 - E4 - E5 - 5V - 2amp - 5000V ins. SPEC. NO. 3673

Winding	PRI	F1	F2	F3	F4	F5
Turns	530	13	39	26	26	26
Taps	-					
Wind. Lgth.	1.75	✓	✓	✓	✓	✓
Wire Size	#23	#20	#20	#20	#20	#20
T. P. L.	67-8	3 layers				
Finish	WIRE ONLY					
Type Lead						
Lead Lgth.	4"	✓	✓	✓	✓	✓
Layer Insul.	50#					
Test Volt.						
Wrapper	210076A	210076A	21007VC	21007VC	21007VC	21007VC
			210076A	210076A	210076A	210076A

TUBE 7L007 IMPREGNATION VARNISH

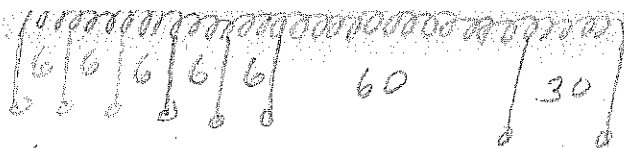
CORE 1/4x1 GA. GRADE STACK

MOUNTING F



DESIGNED BY *[Signature]*

DATE 1/9/38



auto transformer
- 20 amp on any tap

Continuously

1.5

SPEC. NO. 3674

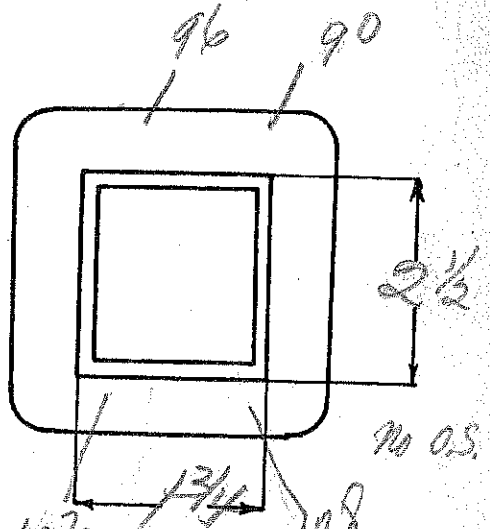
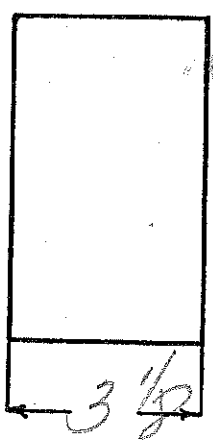
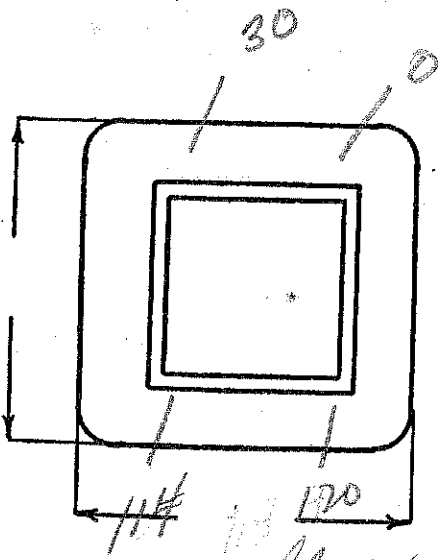
Winding						
Turns	45	90	45			
Taps			9-18-27-36			
Wind. Lgth.	2 3/4					
Wire Size	#11	#12	#9			
T. P. L.	2L	3L	3			
Finish						
Type Lead		WIRE ONLY				
Lead Lgth.	4"	copper lugs				
Layer Insul.	.007 Kraft					
Test Volt.						
Wrapper			310078-A			

TUBE 102007 IMPREGNATION VARNISH

CORE GA. 24 GRADE STACK

MOUNTING U - vertical frames

anchor leads securely in oil!



DESIGNED BY

SW

DATE

102
12/22/37

P-230

adjust to 5 amp SC

S - 24V - 5 amp (high reactance)
separate coils

SPEC. NO. 3675-230V

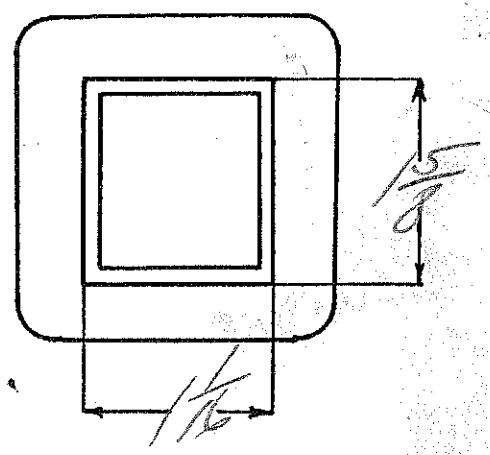
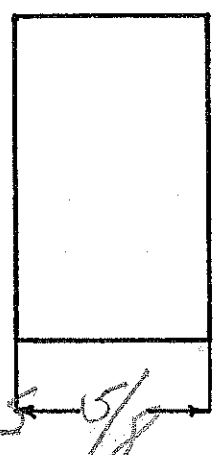
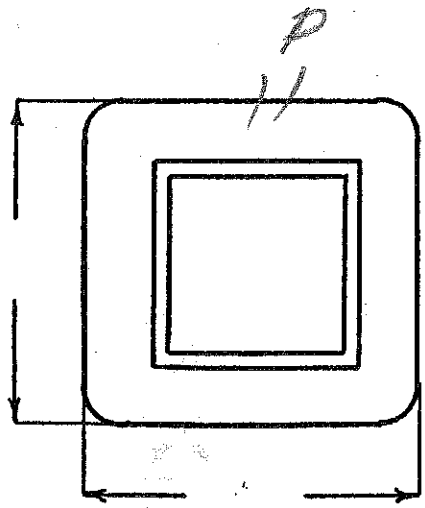
Winding	P	S				
Turns	760	90				
Taps		-				
Wind. Lgth.	9/16	1/2				
Wire Size	#26	#17				
T. P. L.	28-28	9-10				
Finish	W. O.	W. O.				
Type Lead						
Lead Lgth.	3"	3"				
Layer Insul.	40#	.007K				
Test Volt.						
Wrapper	21005GA	21005GA				Double

TUBE 7L007 IMPREGNATION varnish

CORE GA. keepers GRADE STACK 2x2

MOUNTING S - Motor cable leads - 8" thru porcelain bush

no shunts 5/8" x 2"



DESIGNED BY

Gen

P - 11/16

DATE

9/13/38

P-115

S-24V - 5amps (50%)

separate coils 3.2

SPEC. NO. 3675

Winding	P	S				
Turns	380	90				
Taps						
Wind. Lgth.	1/2	1/2				
Wire Size	#23	#17				
T. P. L.	19-20	9-10				
Finish	WIRE ONLY					
Type Lead						
Lead Lgth.	3"	3"				
Layer Insul.	50#	007				
Test Volt.						
Wrapper	24056A	24056A				

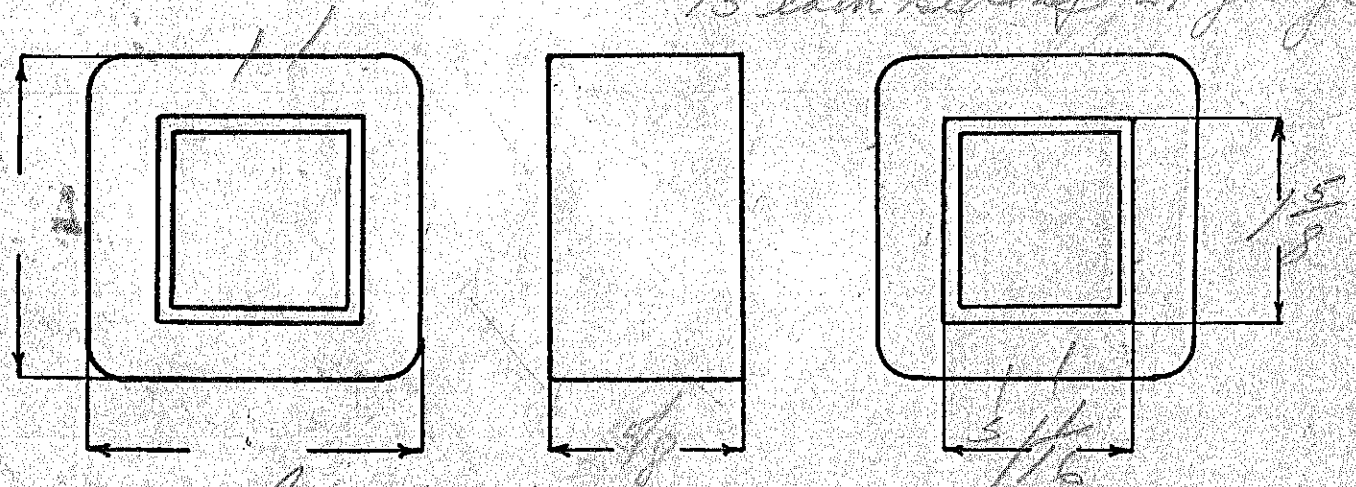
TUBE 2007 IMPREGNATION VARNISH

CORE 1/16 x 1/8 GA. Keen GRADE STACK 212

MOUNTING S - motor cable leads - 8" - precision bushings

adjust gap (up to 1/4") to 5amps

use shunts 5/8 x 2" 15 each side of 27 gauge

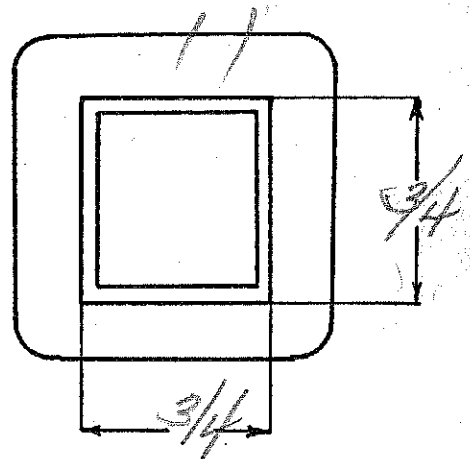
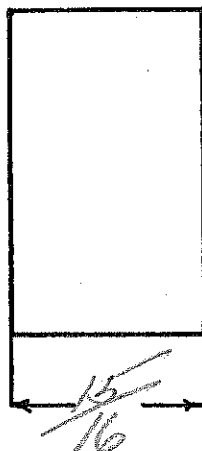
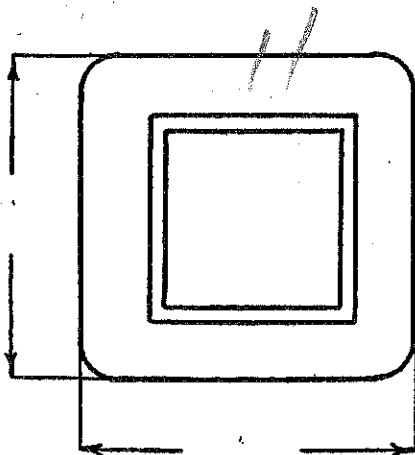


DESIGNED BY *Law*

DATE 12/13/37

SPEC. NO. 3676

Winding	SEC	PR1					
Turns	2900	350					
Taps							
Wind. Lgth.	3/4	3/4					
Wire Size	#37	#27					
T. P. L.	138-21	45-8					
Finish							
Type Lead	#20 Pa. Br						
Lead Lgth.	9"	9"					
Layer Insul.	20#	30#					
Test Volt.							
Wrapper	11007VC	21005GA					
TUBE	71007		IMPREGNATION	VARNISH			
CORE	3/4 x 3/4	GA. 24	GRADE	STACK			
MOUNTING	M1	E Only					



DESIGNED BY *DW*

DATE 1/9/37

P-117
 S - 730VCT - 90ma
 F - 5V - 2amp
 F - 6.3V - 3.2amp

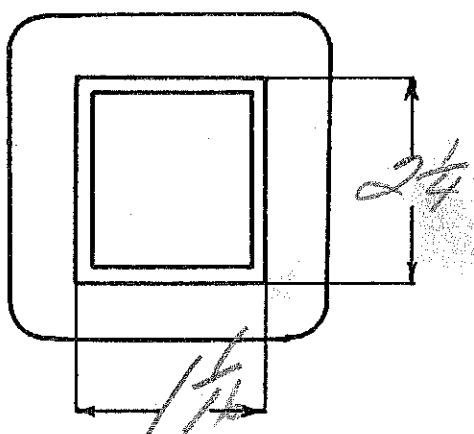
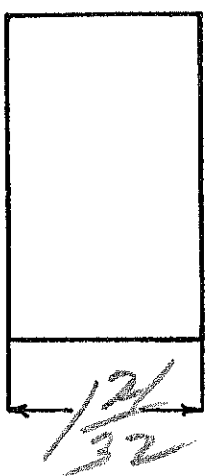
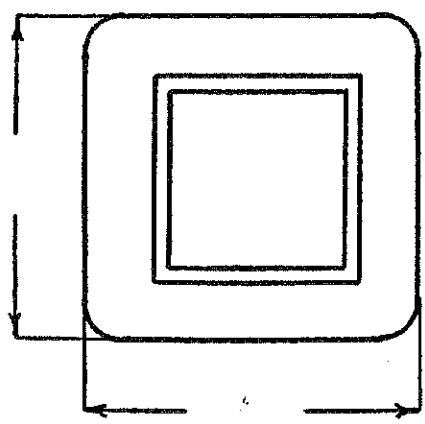
SPEC. NO. 3677-25A

Winding	SEC	SH.	PRI	F ₁	F ₂		
Turns	3060	1	470	28	22		
Taps	1530		—	—	—		
Wind. Lgth.	1 15/32						
Wire Size	#33	Shim	#23	#17	#20		
T. P. L.	170-18		55-9				
Finish							
Type Lead	#20 PBR		#20 PBR	wire	only		
Lead Lgth.	9"		9"	9"	9"		
Layer Insul.	double 16#		50#				
Test Volt.							
Wrapper	1007VC	1005VC	21005GA	✓	✓		

TUBE 72007 IMPREGNATION Varnish

CORE GA. GRADE STACK

MOUNTING 5A - Long bolts



DESIGNED BY *Geo*

DATE 9/2/38

Ep- 117
 Es- 730VCT- 90 ma
 Ef- 5V- 2amps
 Ee- 6.3V- 3.2amps

3.95

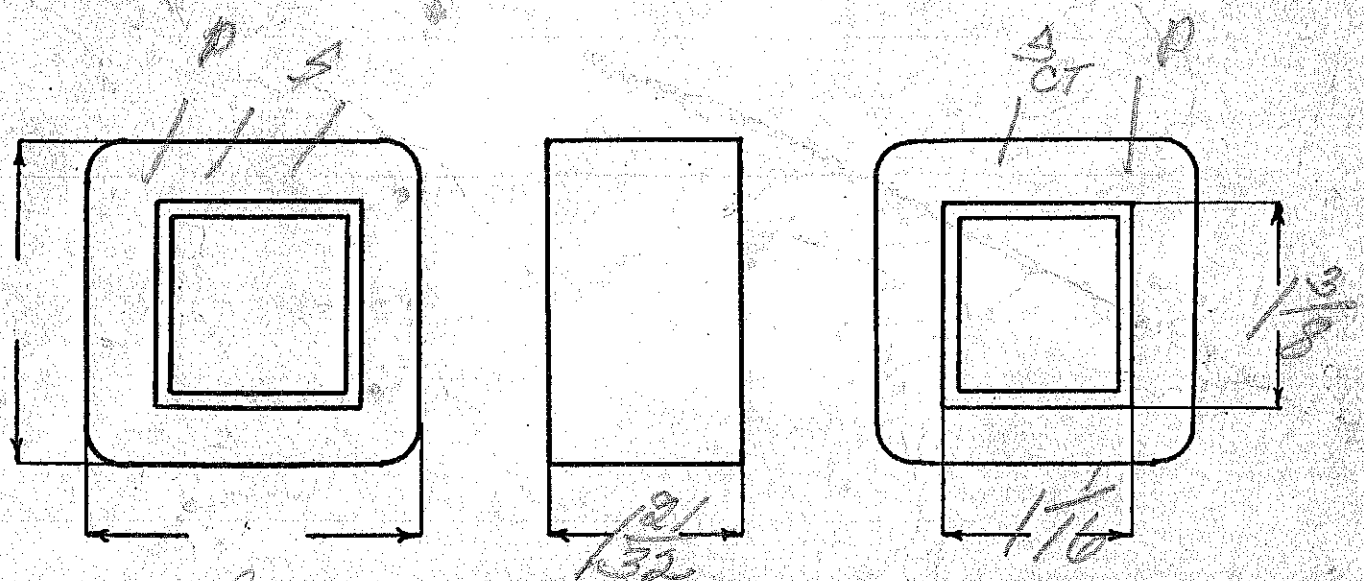
SPEC. NO. 3677

Winding	⁸¹ SEC	⁹ SHIELD	^{Reg- 6"} PRI	⁸¹ FIBER	⁸¹ F2 90cm		
Turns	3000	1105	465	27	22		
Taps	1500						
Wind. Lgth.	1.15						
Wire Size	#33	Shun Stack	#23	#17	#20		
T. P. L.	170-18	711	55-9				
Finish							
Type Lead	#20 Par Br	#22 cellu	#20 Par Br	WIRE ONLY			
Lead Lgth.	see card	5"					
Layer Insul.	16#		50#				
Test Volt.	2500		2500				
Wrapper	12007K	12025K	2005GA	21005GA	21005GA		

TUBE 7007 IMPREGNATION VARNISH

CORE 1/16x1/8 GA. GRADE STACK

MOUNTING SA - long bolts - black



DESIGNED BY *QW*

DATE 12/31

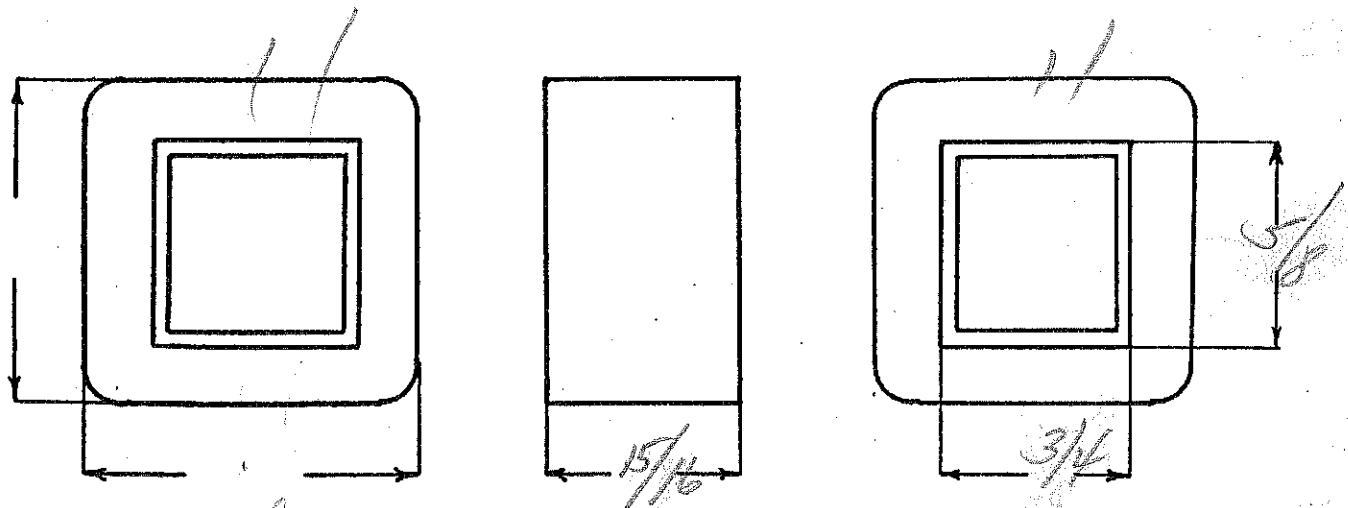
SPEC. NO. 3678

Winding	5	Ø				
Turns	3100	375				
Taps	—	—				
Wind. Lgth.	3/4	3/4				
Wire Size	#38	#28				
T. P. L.	155-20	50-8				
Finish						
Type Lead	#20 P BV					
Lead Lgth.						
Layer Insul.	20H	30H				
Test Volt.						
Wrapper	11007K	21005GA				

TUBE 71007 IMPREGNATION Varnish

CORE 3/4 x 5/8 GA. 24 GRADE STACK

MOUNTING M E only



DESIGNED BY gwr

DATE 1/9/37

Ep-115

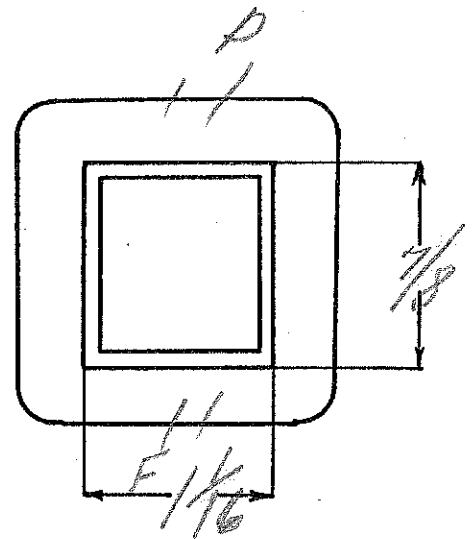
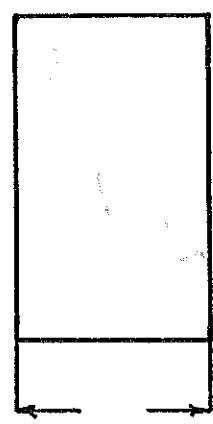
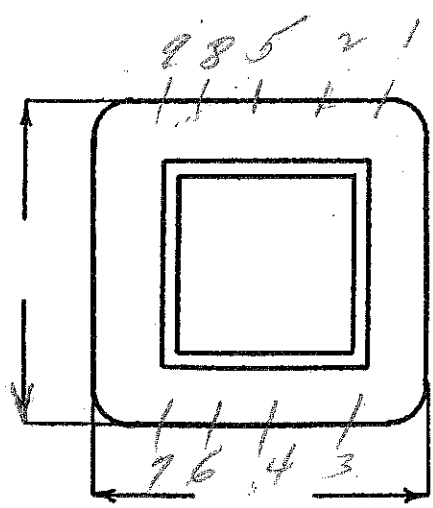
ES - 500-400-300-200V.C.T. 100MA

EF - 5V-4amp

6.0

SPEC. NO. 3679

Winding	SEC		PRI	FIL		
Turns	3300 2970	2340 1680	690	33		
Taps	2640	990 660				
Wind. Lgth.	1 15/32	330	✓			
Wire Size	#33		#25	#17		
T. P. L.	168-20		69-10	1L		
Finish						
Type Lead	Sil Br		WIRE ONLY			
Lead Lgth.	311					
Layer Insul.	double 16#		40#			
Test Volt.						
Wrapper	1L007VC		2L005GA	2L005GA		
TUBE	7607		IMPREGNATION			
CORE		GA.	GRADE	STACK		
MOUNTING	BB					



DESIGNED BY

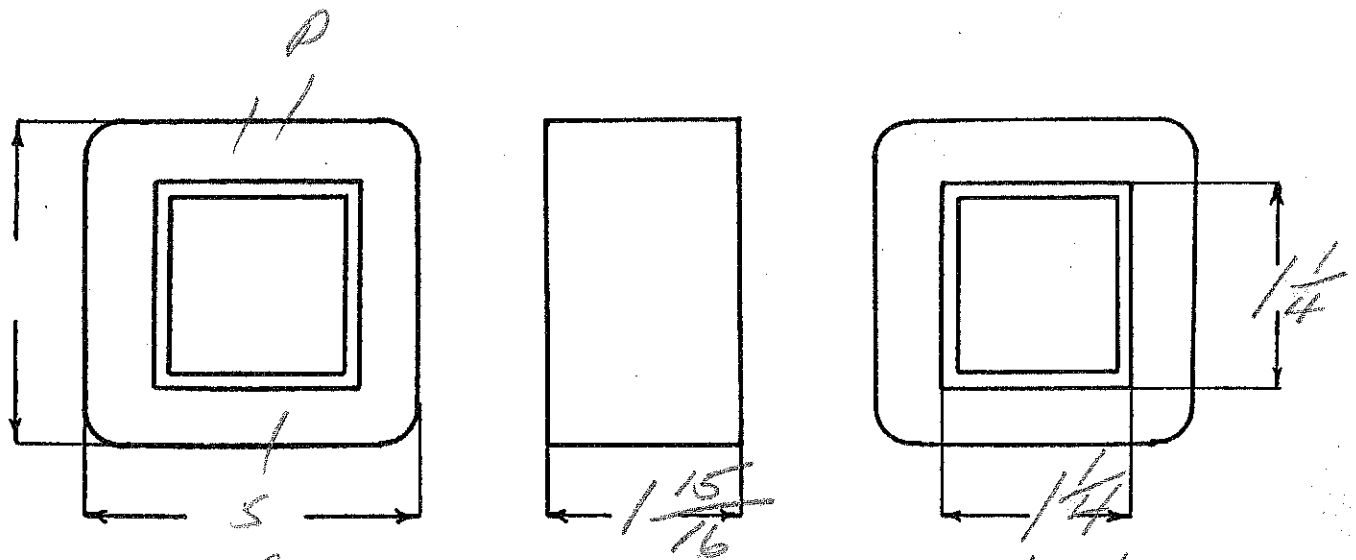
DATE

P- 110V-500 W } both insulated 2500V dc working
 5 - 6V-20 amp }

2.4

SPEC. NO. 3680

Winding	PRI	SEC				
Turns	265	16				
Taps	—	—				
Wind. Lgth.	1.25	1.25				
Wire Size	#21	#9				
T. P. L.	38-7	2L				
Finish						
Type Lead	WIRE ONLY					
Lead Lgth.	4"	4"				
Layer Insul.	207K					
Test Volt.	5000	5000				
Wrapper	21007VC	21007VC				
	21007BA	21007GA				
TUBE	21007 + 21007GA		IMPREGNATION	VARNISH		
CORE	1/4 x 1/4	GA.	GRADE	STACK 2x2		
MOUNTING	B					



DESIGNED BY *SW*

DATE 1/25/38

EP-12VCT - vibrator source (dc)

ES-800VCT-125 ma

SPEC. NO. 3681

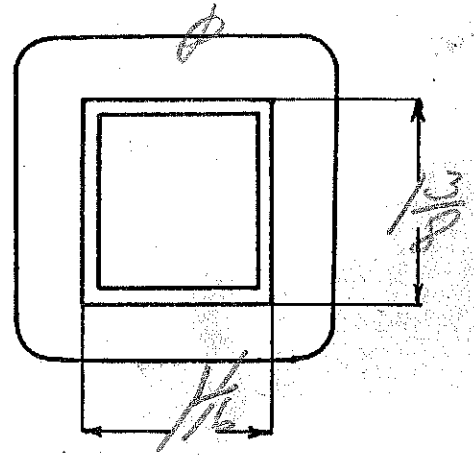
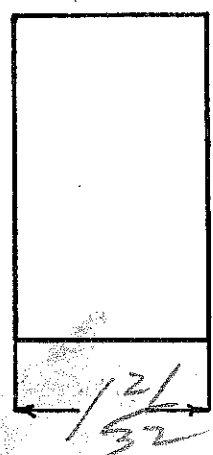
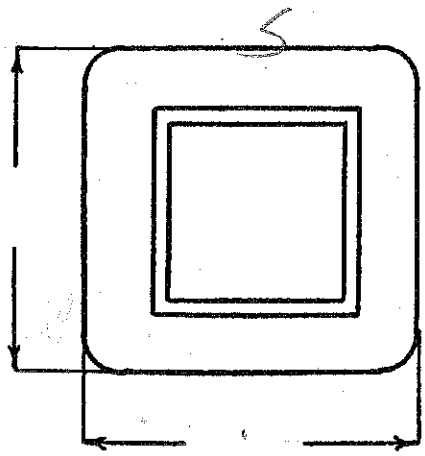
Winding	SEC SHIELD	DR1			
Turns	4000	1	44		
Taps	2000		22		
Wind. Lgth.	115/32				
Wire Size	#32	copper	#14		
T. P. L.	154	chem			
Finish					
Type Lead	#20	sil br	w.o		
Lead Lgth.	9"	3"	9"		
Layer Insul.	d-16*		00715		
Test Volt.					
Wrapper	2L007VC	2L005GA	2L005GA		Double

TUBE 7L007+1L007VC IMPREGNATION VARNISH

CORE GA. 24 GRADE 0 STACK 2x2

MOUNTING A - copper strip over lamination

heavy finishing - 2L007VC
2L007GA



DESIGNED BY *GW*

DATE 1/11/37

Ep - 110V-500 N
 EF - 2.5VCT-15amp } both insulated 2500V d.c. working

3.25

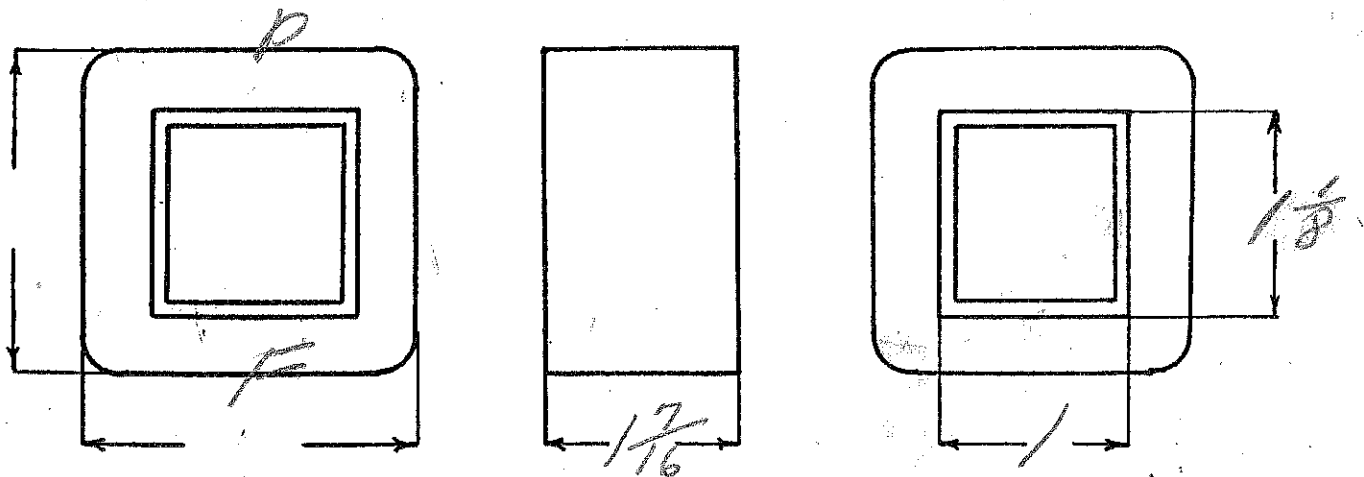
SPEC. NO. 3682

Winding	PRI	FIL				
Turns	360	9				
Taps		5				
Wind. Lgth.	7/8	7/8				
Wire Size	#26	#11				
T. P. L.	46-8					
Finish	WIRE ONLY					
Type Lead						
Lead Lgth.	4"	4"				
Layer Insul.	50 #					
Test Volt.	5000	5000				
Wrapper	2L007VC 3L005GA	2L007VC 3L005GA				

TUBE 5L007 + 2L007VC IMPREGNATION VARNISH

CORE GA. GRADE STACK

MOUNTING F



DESIGNED BY *SW*

DATE 1/25/38

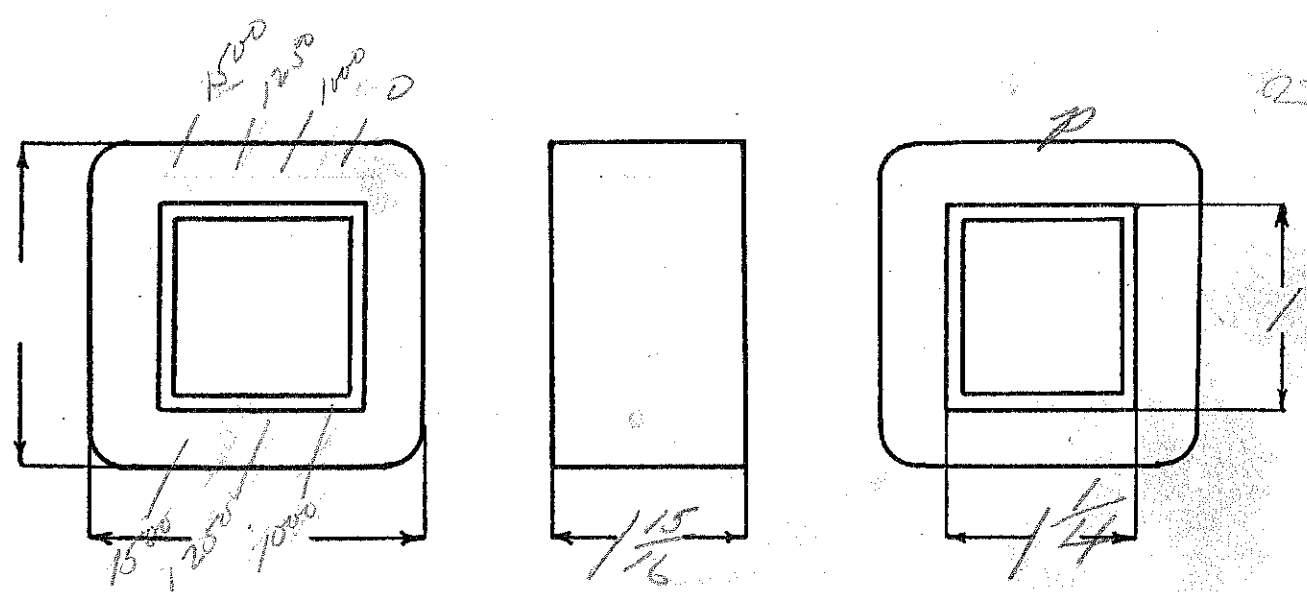
Ep - 110V - 500 V (pri sec. 2500V dc working)

ES - 1500V, 1000, 1250 ea side CTI - 10ma

29

SPEC. NO. 3683

Winding	P	S				
Turns	325	9600				
Taps		800-1600-4800-8000-8500				
Wind. Lgth.	1 3/8"	7/8"				
Wire Size	#27	#39				
T. P. L.	82-4	200-48				
Finish						
Type Lead	W.O.					
Lead Lgth.	6"					
Layer Insul.	double 40#	double 40#				
Test Volt.	5000	7500				
Wrapper	52007VC	40007VC 24007GA				
TUBE	74007 + 24007VC		IMPREGNATION	Varnish		
CORE	GA.	GRADE	STACK			
MOUNTING	J					



DESIGNED BY

DATE

Ep-110V-500~

5- 800VCT-1.5 amps (tap 300V ea side)

both insulated
2500VDC. working

SPEC. NO. 3684

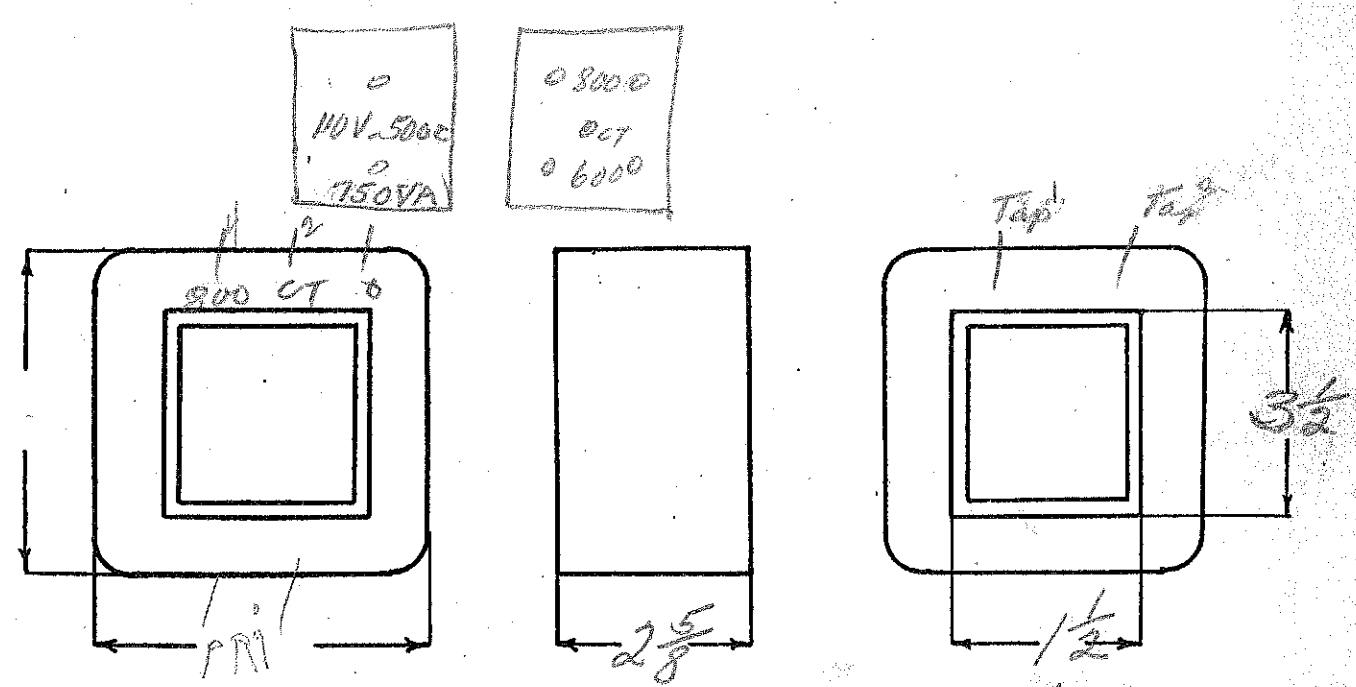
70

Winding	PRI	SEC				
Turns	77	600				
Taps		525-300-75				
Wind. Lgth.	2 1/4					
Wire Size	#12	#20				
T. P. L.	3L	10L				
Finish						
Type Lead	WIRE ONLY					
Lead Lgth.	4"	4"				
Layer Insul.	007K	✓				
Test Volt.	5000	5000				
Wrapper	2400TVC 2400SGA	2400TVC 3400.53A				

TUBE 91007+2400TVC IMPREGNATION VARNISH

CORE 1 1/2 x 3 1/2 GA. 24 GRADE D STACK 2x2

MOUNTING G



DESIGNED BY *gwo*

DATE 1/25/38

Ep - 120 or 240V - sensor parallel

P. 12000 - DEBYE

Es - 750VCT - 225 ma

1.80

Ep - 5V 3amp Ec - 6.3V - 7amps

SPEC. NO. 3685

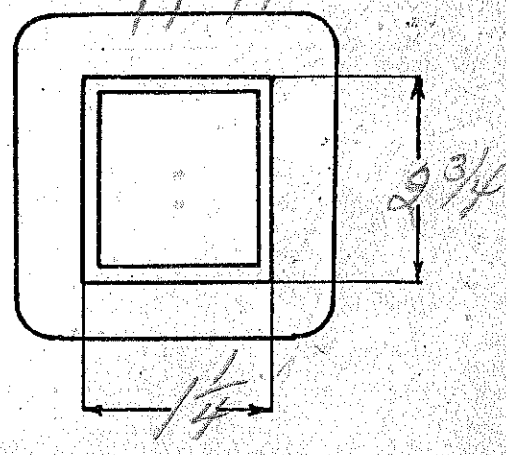
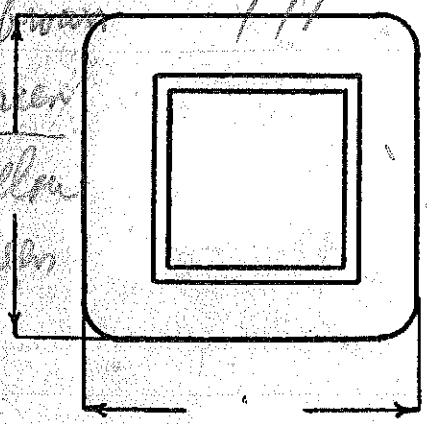
Winding	SEC	SHIELD	PRI	PRI	F1	F2
Turns	1400	1	216	216	10	12
Taps	700				-	-
Wind. Lgth.	1.75	✓	✓	✓	✓	✓
Wire Size	#28	thin stock	#22	#22	#17	#13
T. P. L.	117-12		58-4	58-4		
Finish						
Type Lead	#24 pld		#20 pld			
Lead Lgth.						
Layer Insul.	double 30#		double 40#			
Test Volt.						
Wrapper	1400V 32#	1400V	1400V	2000V 32#		2600V 32#
TUBE	9407				IMPREGNATION	DOUBLE VARNISH

CORE GA. GRADE STACK

MOUNTING SA - Cadmium plated plate - Black

2 grommets spaced 1/8" c-c on center line of hole

sec - black - blue CT 5
 P starts brown 1/11
 P ends green
 5.0 - yellow
 6.3 - green



DESIGNED BY *GW*

over

DATE 1/17/38

115V $E_1 - 1100VCT - 200Ma$
 $E_2 - 5V - 3amp$
 $E_3 - 6.3V - 5amp$

SPEC. NO. 3686

Winding	SEC	SHIELD	PR1	F1	F2		
Turns	2150		215	10	12		
Taps	1075						
Wind. Lgth.	1.75						
Wire Size	#29	#29	#19	#17	#15		
T. P. L.	135-16		43-5				
Finish							
Type Lead	#200W		WIRE ONLY				
Lead Lgth.	9"		9"	9"	9"		
Layer Insul.	double 30#		007				
Test Volt.							
Wrapper	2100VCT	1100VCT	3100VCT				

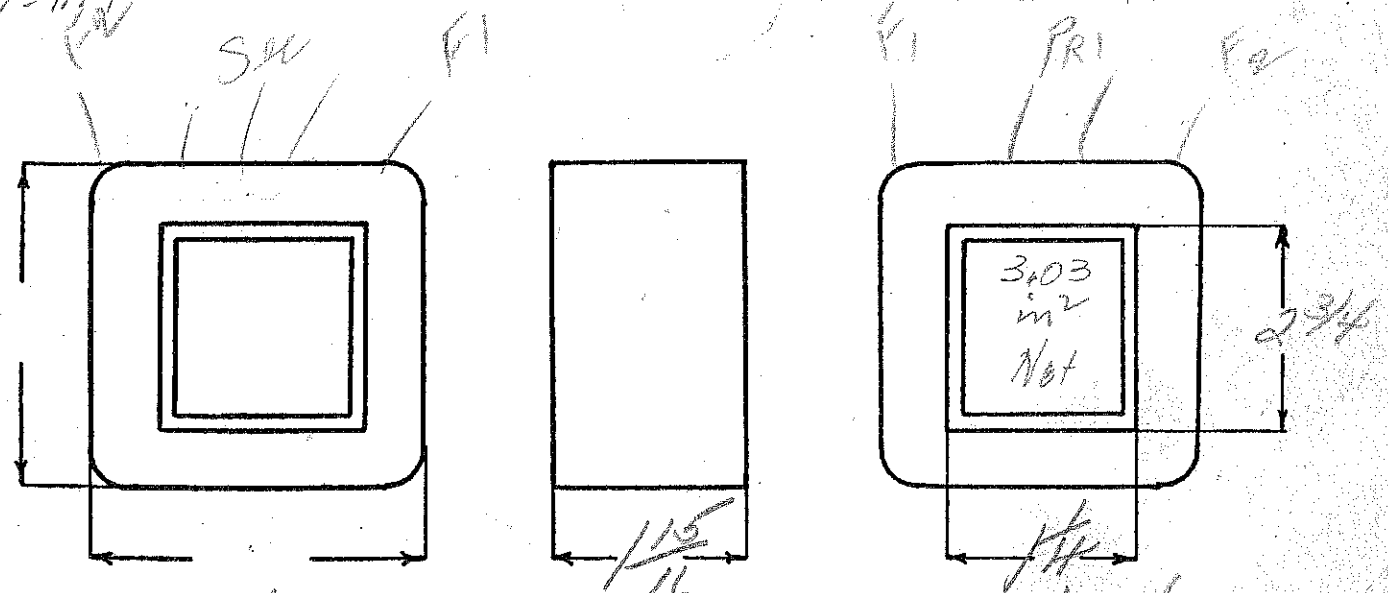
TUBE 9L007 IMPREGNATION VARNISH

CORE GA. GRADE STACK

MOUNTING A

$C_0 = 1000 - 650 - 684 - 650$
 $F_0 = 69 @ 60v$
 $TPV = 1.79$

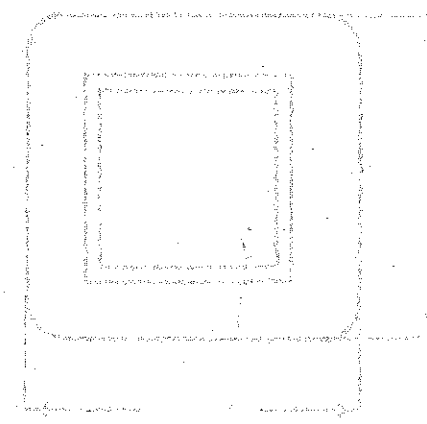
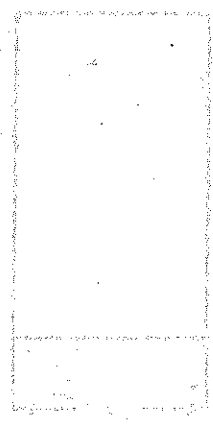
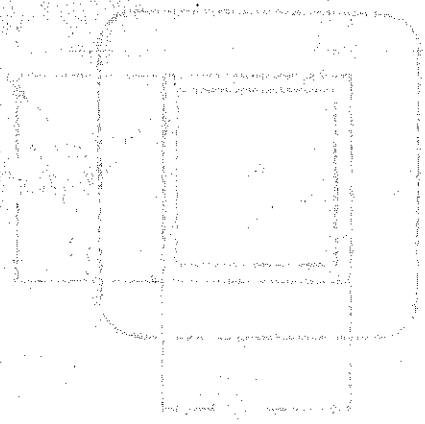
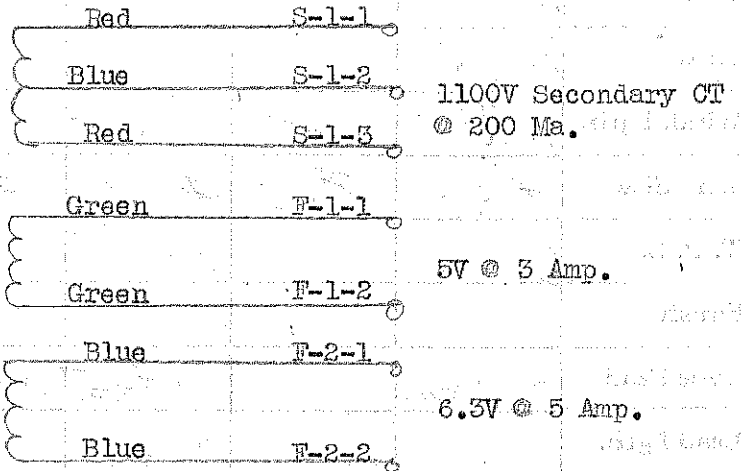
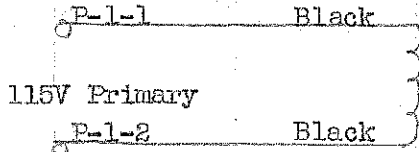
$\Sigma Sec VA = 177$
 $P_{pri VA} = 237$
 $P_{pri I} = 1.98$
 $\eta = 83$
 $\cos \theta = 90$



DESIGNED BY Gaw

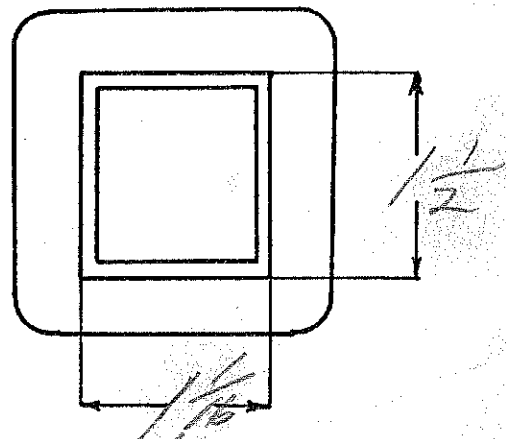
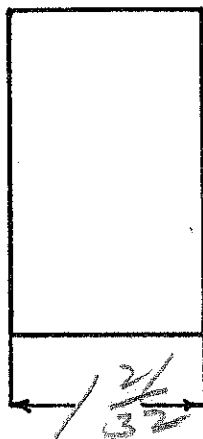
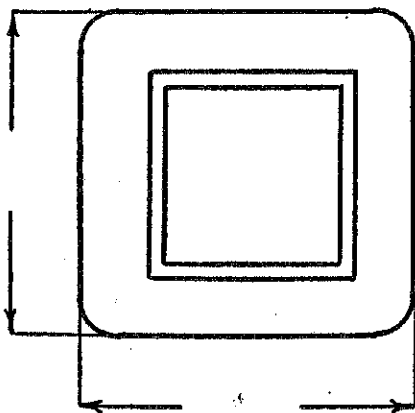
DATE 4/18/37

#3686-A



Ep - 117V
 Es - 720VCT 100ma
 E₁ - 5V-3amp
 E₂ - 6.3VCT-3.5amp
 3.5 SPEC. NO. 3687

Winding	SEC	WELD	PR1	F ₁	F ₂		
Turns	2700	170	410	20	24		
Taps	1350	—	—	—	12		
Wind. Lgth.	1 15/32	✓	✓	✓	✓		
Wire Size	#33	#33	#23	#18	#17		
T. P. L.	170-16		56-8				
Finish							
Type Lead	#33		#33	WIRE ONLY			
Lead Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	double 16#		50#				
Test Volt.							
Wrapper	1007VC	1005UC	2005GA	2005BA	2005BA		
TUBE	71007			IMPREGNATION		VARNISH	
CORE	1 1/16	GA.	24	GRADE	D	STACK	ex 2
MOUNTING	A						



DESIGNED BY *GW*

DATE 1/26/38

Ep-115-120
 ES-3000V-250 ma
 EP-5.1V CT 13 amp

replung 2662
 (4046)

1.1

SPEC. NO. 3688

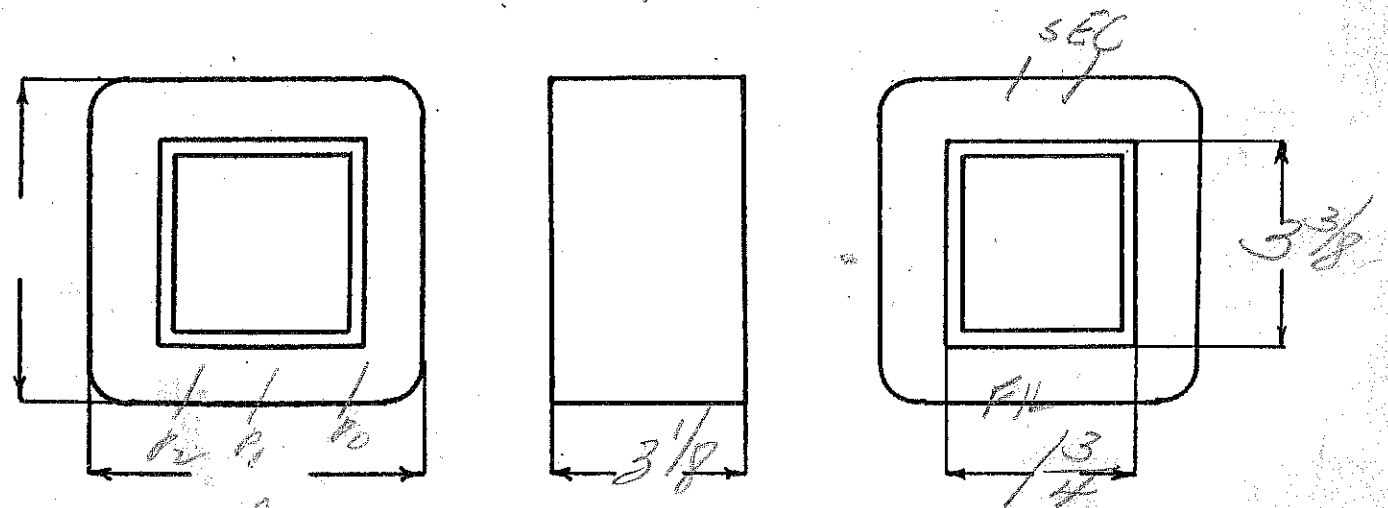
Winding	SEC	PRI	FIL			
Turns	3500	132	6			
Taps	—	126	3 - grounded			
Wind. Lgth.	2 1/2					
Wire Size	#27	#12	double #14			
T. P. L.	147.24					
Finish	WIRE ONLY					
Type Lead				Start sec. lead in coil		
Lead Lgth.	3"	3"	3"			
Layer Insul.	double 40#	207K				
Test Volt.	750					
Wrapper	3100VC 3105GA	3105GA	21005GA 11010RD			

TUBE 10L007 + 1100VC IMPREGNATION VARNISH

CORE GA. 24 GRADE Dynaco STACK 2x2

MOUNTING Unused - vertical sheet metal brackets

cadmium plated - mount so that sec + fil are at bottom.
 Sec to bakelite strip - pri + fil to legs. Aluminum Paint



DESIGNED BY SW

DATE 1/21/38

SPEC. NO. 3689

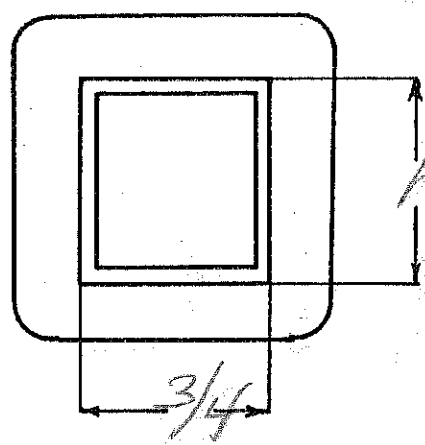
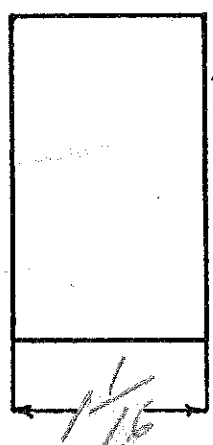
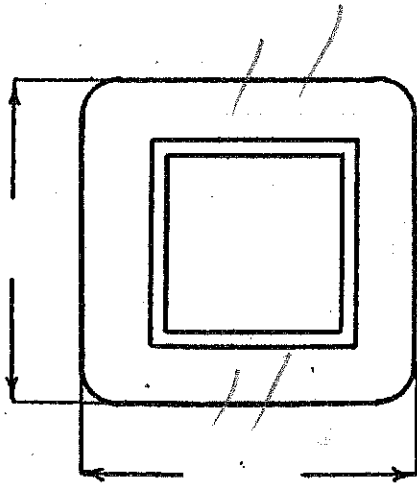
Winding	PRI	SEC				
Turns	320	3200				
Taps						
Wind. Lgth.	7/8	3/4				
Wire Size	#26	#38				
T. P. L.	45-7	153-24				
Finish						
Type Lead	Silver	Brass				
Lead Lgth.	3"	3"				
Layer Insul.	40#	30#				
Test Volt.	-	2500				
Wrapper	2007VC	40050A				

TUBE 7607 IMPREGNATION Varnish

CORE 3/4x1 GA. 24 GRADE D STACK 2x2

MOUNTING D

heavy secondary pushing - remove 12007GA



DESIGNED BY lgw

DATE 1/24/38

Pri - 230V (tapped)
 Sec - 35V @ 4.5 Amp -

Shop
 ✓
 ✓

(Transf. on Multi-Winding Machine)

SPEC. NO. 3690 Rev.

Winding	Pri		Sec -	38V		
Turns	510		81	(8 1/2%)		
Taps	488-467-446-425-0		-			
Wind. Lgth.	1 1/16"		1 1/16"	= 1.6875"		
Wire Size	#21		#16			
T. P. L.	51-10h		27-3h			
Finish	90%		84%			
Type Lead	W.O. Sleeve		W.O. Sleeve			
Lead Lgth.	9"		9"			
Layer Insul.	50#9		0056A			
Test Volt.						
Wrapper	0056A		0056A			

TUBE 7L-007 6K IMPREGNATION Varnish

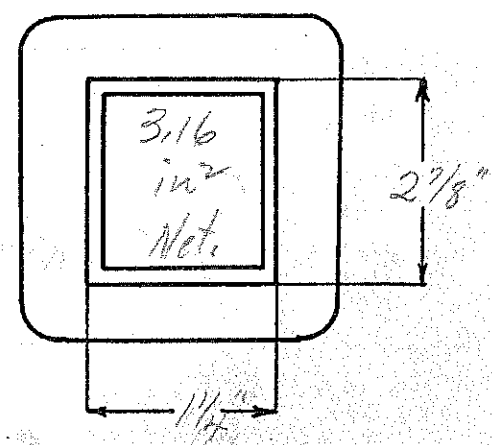
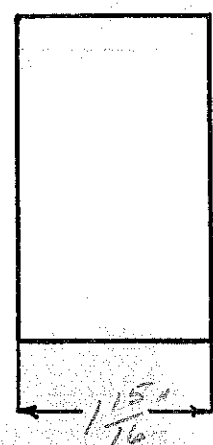
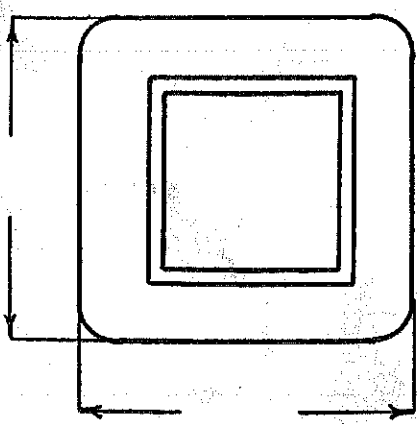
CORE 1/4" x 2 7/8" E.I. GA. 24 GRADE D STACK 2 x 2

MOUNTING "A"

Note: All Single Wound -

Cu = 580-575.
 Fe = 56 @ 60V
 TPV = 2.12
 Wire Net = 0.585" (0.

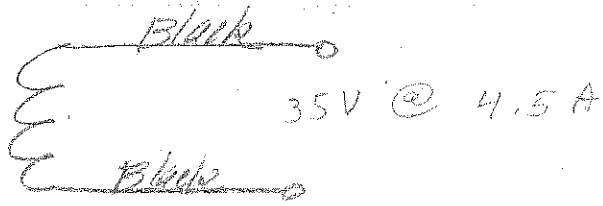
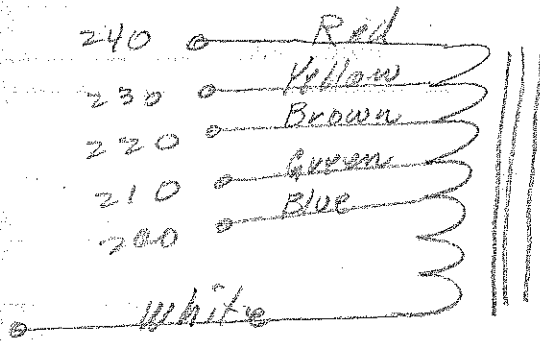
Sec VA = 158
 Pri VA = 293
 Pri I = 1.4 Amp @ 210V. H
 r = 83, cos φ = 65



DESIGNED BY KLB

DATE 1-5-42

over



$E_p - 120V$
 $E_s - 95V - 105V - 400watts$

53

SPEC. NO. 3691

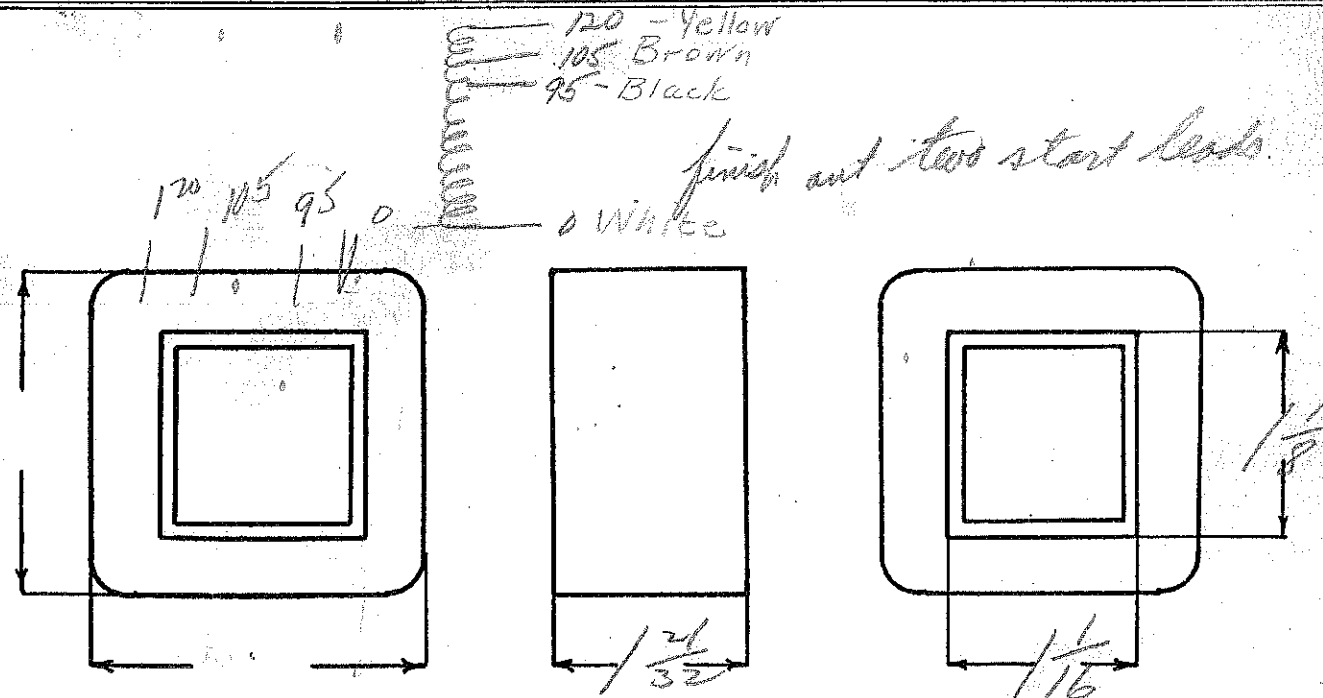
Continuous

Winding						
Turns	504	133				
Taps		53				
Wind. Lgth.	$\frac{115}{32}$					
Wire Size	#23	#17				
T. P. L.	56-9	52				
Finish						
Type Lead	#20 Part	W.O.				
Lead Lgth.	9"	9"				
Layer Insul.	50#	005				
Test Volt.						
Wrapper		2L005GA				

TUBE	71007	IMPREGNATION	VARNISH
------	-------	--------------	---------

CORE	GA.	GRADE	STACK
------	-----	-------	-------

MOUNTING *A*



DESIGNED BY *SW*

DATE 1/13/37

Ep 110-115-120
 Es - 2500 VOLT 300 ma

SPEC. NO. 3692

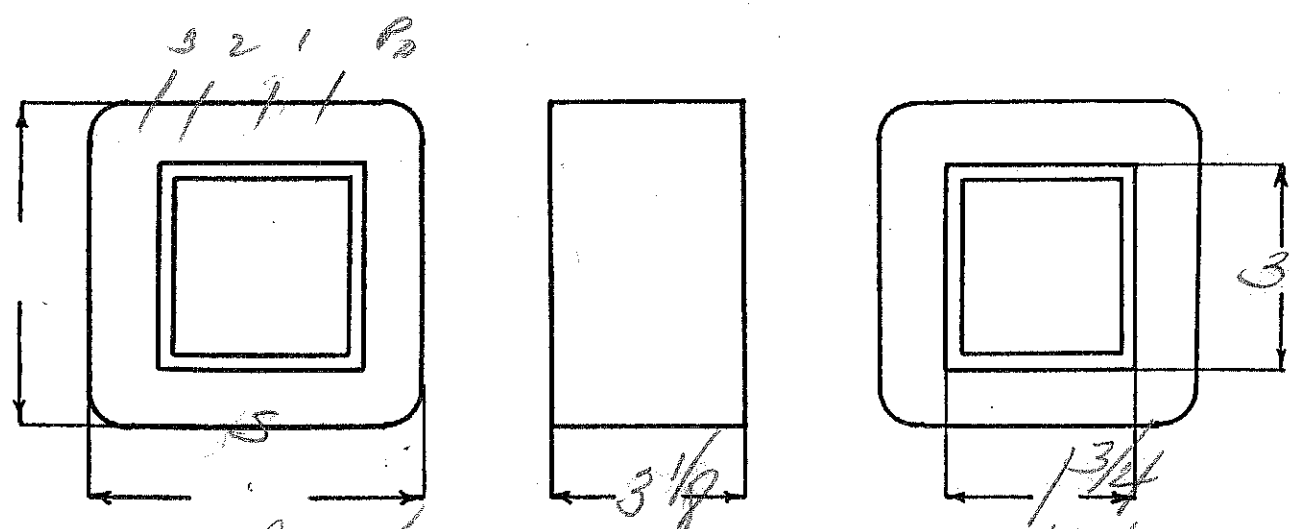
1.22

Winding	SEC		PRI			
Turns	3340		147			
Taps	1670		141-135			
Wind. Lgth.	25/8					
Wire Size	#26		#13			
T. P. L.	140-24		5L			
Finish	WIRE ONLY					
Type Lead						
Lead Lgth.	6"		6"			
Layer Insul.	double 40*		OK			
Test Volt.						
Wrapper	32007VC 32005GA		32007VC 32005GA			

TUBE 106007 + 32007VC IMPREGNATION VARNISH

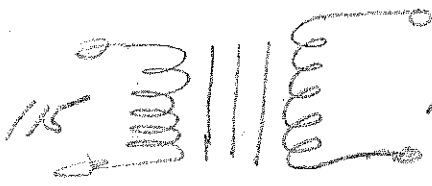
CORE GA. GRADE STACK

MOUNTING U - Pin to lug, see to poleplate strip



DESIGNED BY *GW*

DATE 1/13/37



10V - 200amps

40H
10k

2675

$$\frac{N}{E} = 84$$

SPEC. NO. _____

3683

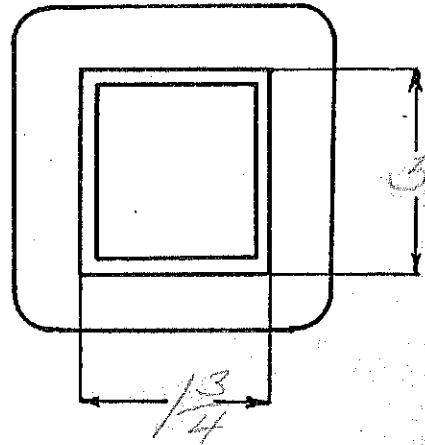
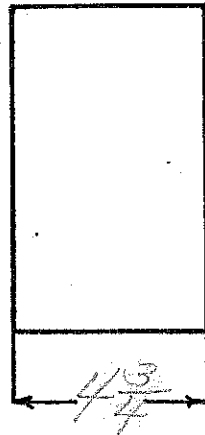
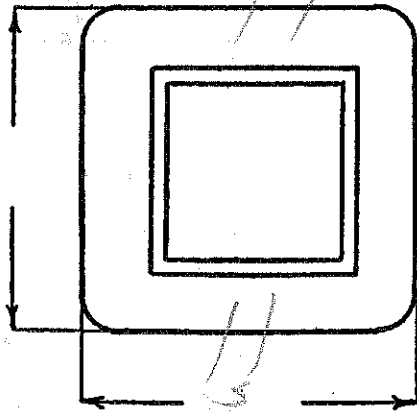
Winding	PRI		SEC				
Turns	100		9				
Taps							
Wind. Lgth.	4 1/4		Double				
Wire Size	#8		#6 twin square				
T. P. L.	4L		2L				
Finish							
Type Lead	WIRE ONLY						
Lead Lgth.	12"		12"				
Layer Insul.	2-007K						
Test Volt.							
Wrapper	3L0056A		3L0056A				

TUBE 106007 IMPREGNATION VARNISH

CORE 1 3/4 X 5 - long GA. GRADE STACK 2 x 2

MOUNTING increased special brackets

35"



DESIGNED BY _____

DATE _____

Telee



$$\frac{N}{E} = 2.6$$

SPEC. NO. 3694

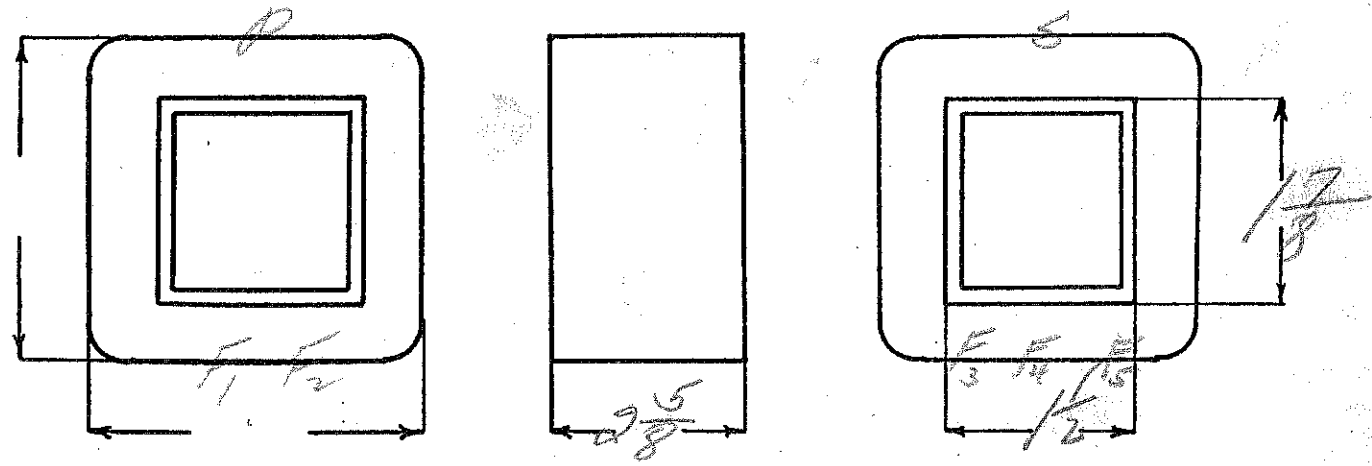
Winding	PR1	SHIELD	SEC	F1 & F2	F3	F4	F5
Turns	300	1	3220 2340	14	18	7	7
Taps	—	—	1260	—	—	—	—
Wind. Lgth.	2.25		2.25				
Wire Size	#19	shinn stock	#28	#19	#23	#20	#19
T. P. L.	51-6		151				
Finish	#20 P.P.	silpn	#20 P.P.	WIRE ONLY			
Type Lead							
Lead Lgth.	9"	3"	9"	9"	9"	9"	9"
Layer Insul.	.007		double 30#				
Test Volt.							
Wrapper	2007VC	2007VC	2007VC				2005GA

TUBE 9L007 IMPREGNATION VARNISH

CORE GA. GRADE D STACK 2x2

MOUNTING A

Sec-C-Red spiral sec - double paper above & below spin
 Tap #1 - Blue
 - 2 - Green
 - 3 - White



DESIGNED BY G.W.

DATE 2/17/38

Ep-118
 Es - 1600V-400ma - half wave rectification

12

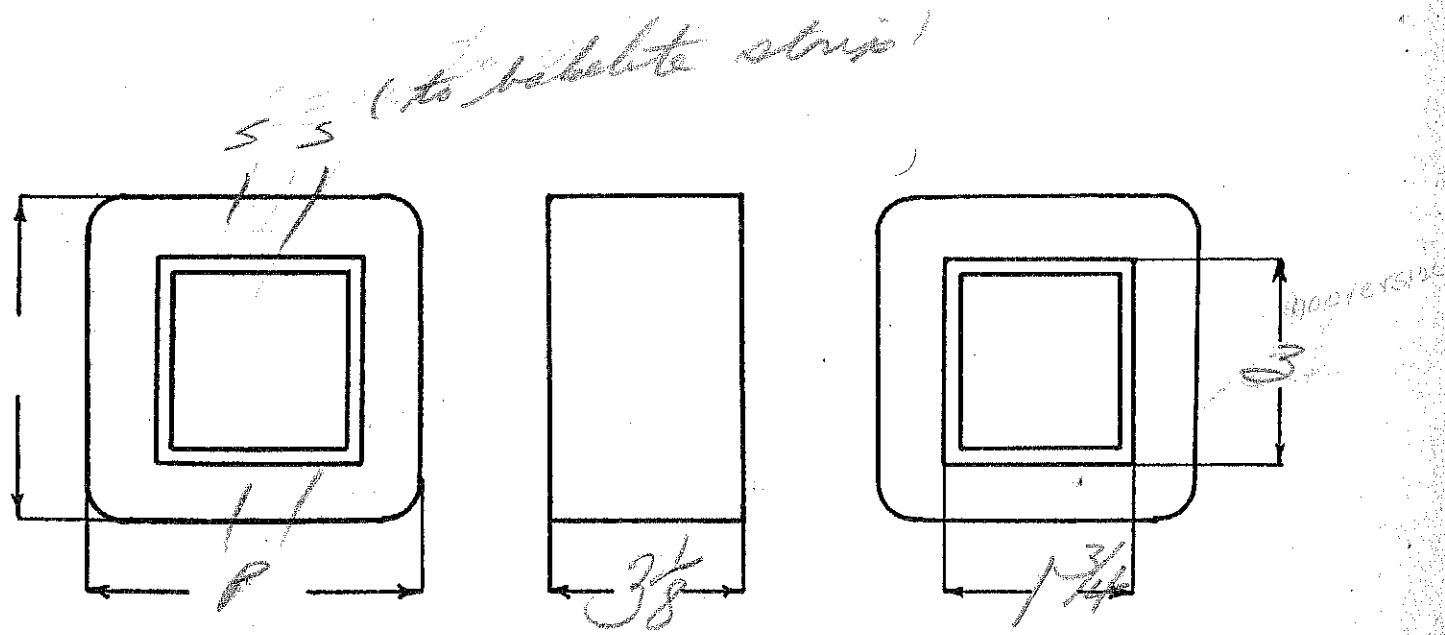
SPEC. NO. 3695

Winding	SEC	PRI				
Turns	2100	142				
Taps						
Wind. Lgth.	2 1/2	2 3/4				
Wire Size	#25	#12				
T. P. L.	170-18	5L				
Finish						
Type Lead						
Lead Lgth.	double					
Layer Insul.	50# - 007					
Test Volt.						
Wrapper	31007VC 210056A	30056A				

TUBE 101007+1007VC IMPREGNATION

CORE 1 3/4 X 3 GA. GRADE STACK

MOUNTING unslotted brackets - cadmium-plated aluminum powder



DESIGNED BY *Geo*

DATE 2/10/38

Ep- 32V dc vibrator

E3 to deliver 210V dc - 70 ma - 8 mfd input - 0.24 sec cycle

4.5

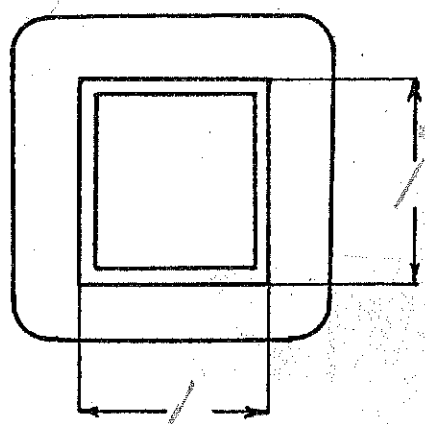
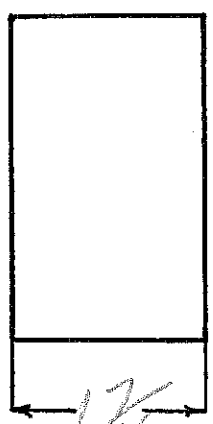
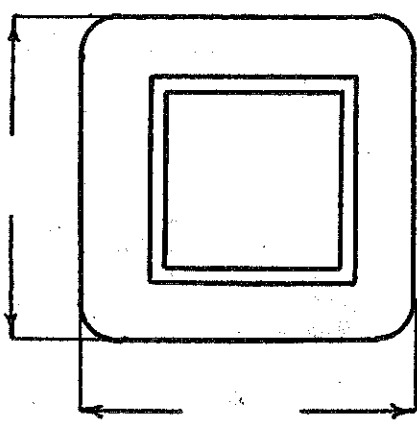
SPEC. NO. 3696

Winding	SEC	PRI				
Turns	2850	288				
Taps	1425	144				
Wind. Lgth.	1.25					
Wire Size	#34	#23				
T. P. L.	160-18	48-6				
Finish						
Type Lead	#20 P/P	#24 P/P				
Lead Lgth.	9"	9"				
Layer Insul.	double 76#	50#				
Test Volt.						
Wrapper	20007VC	2005BA				

TUBE 7007 IMPREGNATION Varnish

CORE GA. 24 GRADE D STACK 2x9

MOUNTING A - copper shield over lamination



DESIGNED BY *lgw*

DATE 2/11/38

Fp-110-115-120V

11E-415

E3-1200VCT-200VMA
Tap, 200V off center

E_{F3}-7.5V-2.5amp CT

E_{F4}-2.5VCT-3amp

E_{F1}=E_{F2}=7.5VCT-1.25amp

SPEC. NO. 3697

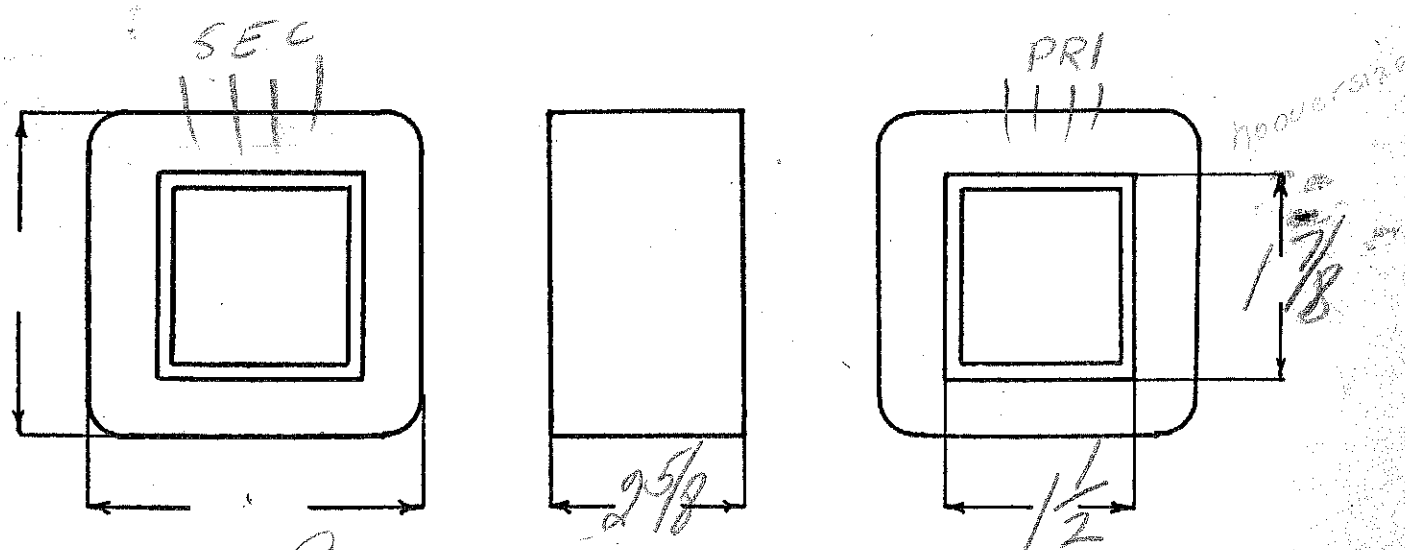
Winding	SEC	SHIELD	PRI	Blue F ₁	Blue F ₂	Yellow F ₃	White F ₄
Turns	2850 1425	156	260 249	18	18	18	6
Taps	960		239	9	9	9	3
Wind. Lgth.	2 1/4	-	-	-	-		
Wire Size	#29	#29	#19	#22	#22	#18	#18
T. P. L.	160-18		54-5				
Finish							
Type Lead	#20 Dulac		WIRE ONLY	WIRE ONLY			
Lead Lgth.	9 1/2 double		9"	9"	-	-	-
Layer Insul.	30#		007				
Test Volt.							
Wrapper	21007VC	21005GA	21005GA	-	-	-	21005GA

TUBE 71007 IMPREGNATION VARNISH

CORE 1 1/2 x 1 7/8 GA. 24 GRADE D STACK 2x2

MOUNTING A

Sec- Red-Blue CT.
Extra Tap- Green.



DESIGNED BY *Jw*

DATE 2/10/38

Ed - 115 or 158V

150 watt

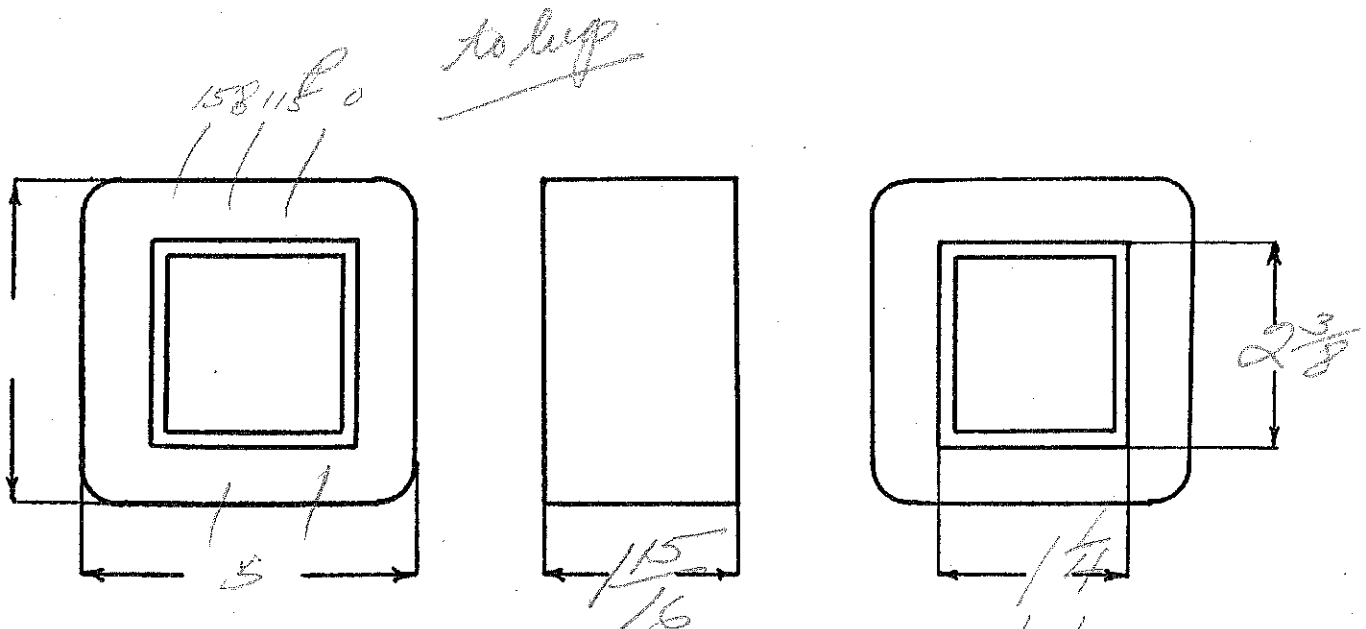
ES - 5.5V (or 4 when line connected to 158V line)

30 amp sec 234

SPEC. NO.

3698

Winding	PRI	SEC				
Turns	370	14				
Taps	274					
Wind. Lgth.	1.75	double				
Wire Size	#20	#10				
T. P. L.	48-8					
Finish	WIRE ONLY					
Type Lead						
Lead Lgth.	3"	3"				
Layer Insul.	0001K					
Test Volt.						
Wrapper	20076A 20076A					
TUBE	76007		IMPREGNATION	VARNISH		
CORE	GA.	24	GRADE	D		
MOUNTING	BB					



DESIGNED BY *SW*

DATE 2/11/38

Ep-120
 Es-520VCT-90ma
 Ef-5V3amp

Ef-6.3V-2amp

3.95

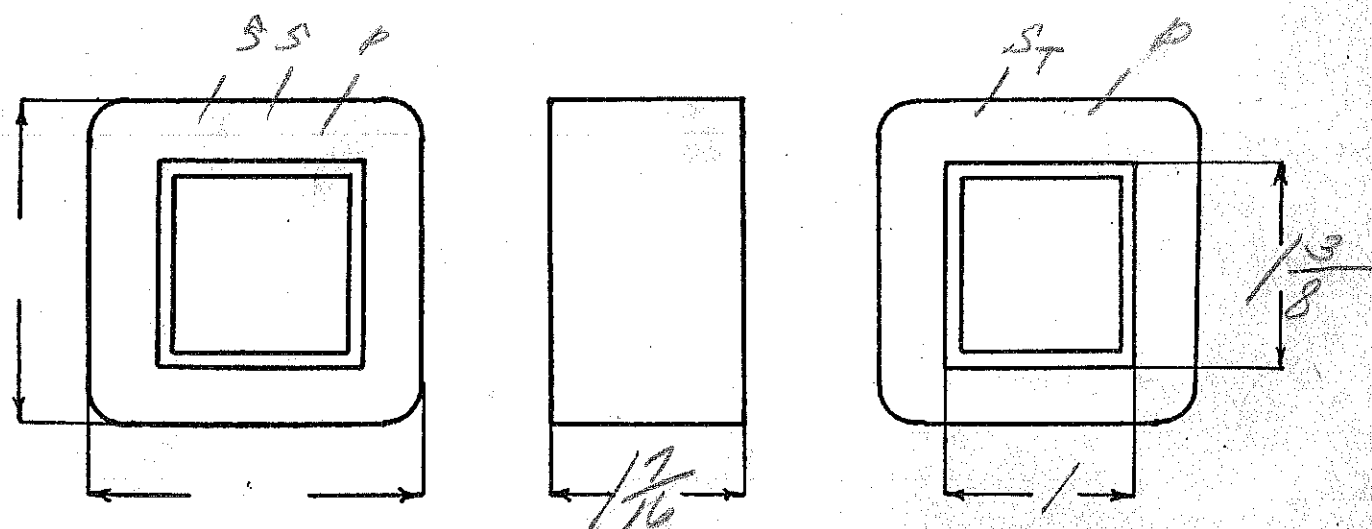
SPEC. NO. 3699

Winding	SEC	SHIELD	DR1	F1	F1		
Turns	2200	69	470	22	27		
Taps	1100			—	—		
Wind. Lgth.	1.25						
Wire Size	#34	#26	#26	#18	#20		
T. P. L.	160-14		67-7	1	1		
Finish							
Type Lead	#22 collar		#20 collar	WIRES ONLY			
Lead Lgth.	9"		9"	9"	9"		
Layer Insul.	double 16#		40#				
Test Volt.							
Wrapper	1007VE	1005VE	2005GA	2005GA	2005GA		

TUBE 7007 IMPREGNATION VARNISH

CORE 1X1 GA. GRADE D STACK 2XL

MOUNTING SA



DESIGNED BY *SW*

DATE 2/8/57