

Ep - 115V
 Es - 8000V - 40 Ma.

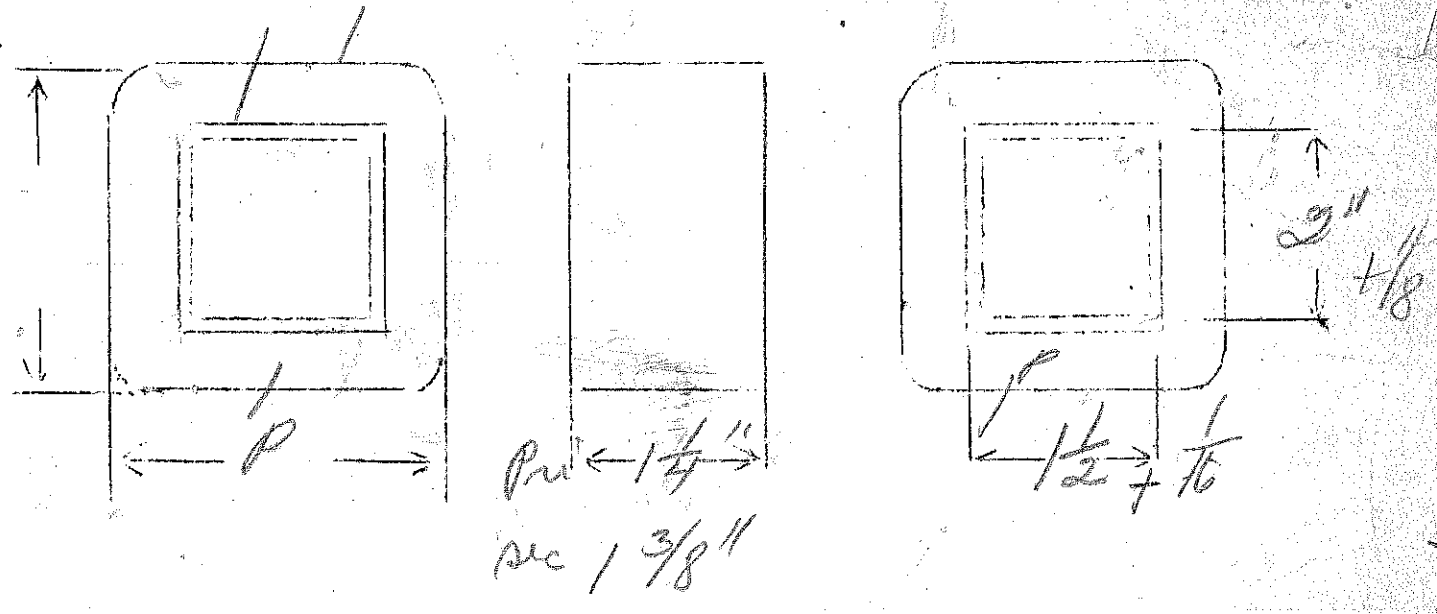
Mr. Egan

320 watts

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

SPEC. NO. 1401

Winding	PRI	SEC				
Turns	230	17000				
Taps	—	—				
Wind. Lgth.	1"	$\frac{15}{16}$ "				
Wire Size	#16	#36				
T.P.L.	18-13	155-110				
Kind Term.	WIRE ONLY					
Term. Lgth.	6"	6"				
Layer Insul.	005	30#				
Wrapper	2L0076A	6L007VC 2L0076A				
TUBE	9L007 (add 5L007VC according)		IMPEGNATION	VARNISH		
CURE	1 1/2 x 2"					



Ep - 120 V.
 Es - 1100 V.C.T. - 150 Ma.
 Ef - 7.5 V.C.T. - 2.5 A.
 Ef - 7.5 V.C.T. - 2.5 A.
 Ef - 2.5 V.C.T. - 10 A.
 Ef - 1.5 V.C.T. - 6.3 A.

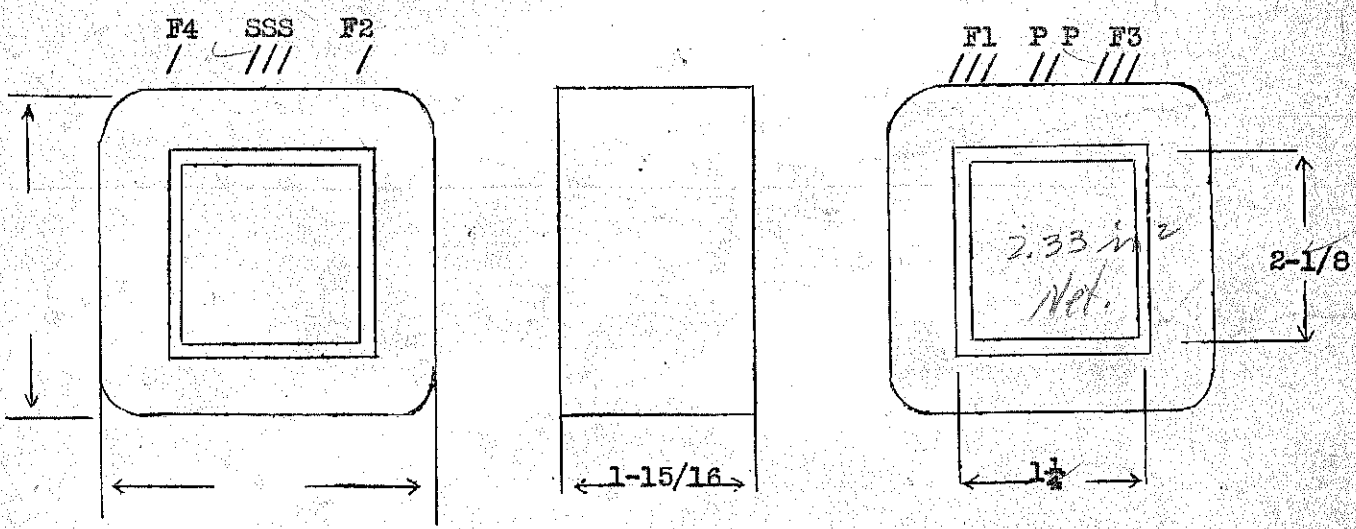
SPEC. NO. P1402

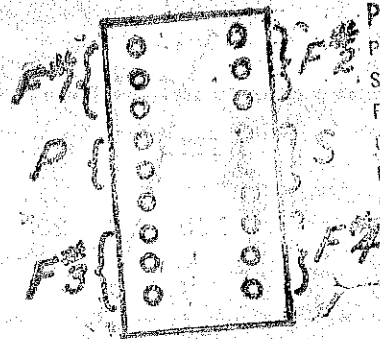
OLD

Winding	SEC.	SHIELD	PRI.	F ₁	F ₂	F ₃	F ₄
Turns	2640	165	255	18	18	6	4
Taps	1320			9	9	3	2
Wind. Lgth.	1.75	1.75	1.75				
Wire Size	#31	#31	#20	#19	#19	Double #15	#16
T.P.L.	165-16	165	47-6				
Kind Term.	#20 Zeelite Wire Only	Wire Only	#20 Zeelite Wire Only	Wire Only	Wire Only	Wire Only	Wire Only
Term. Lgth.	9"	3"	9"	9"	9"	9"	9"
Layer Insul.	Double 20#		50#				
Test Volt.							
Wrapper	2L007VC	1L005VC	2L007GA	2L007GA	2L007GA	2L007GA	2L007GA

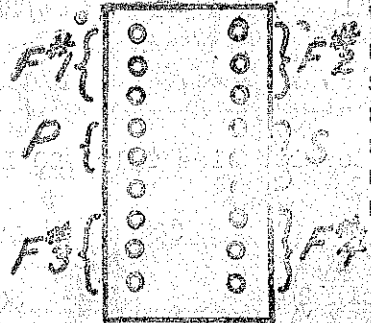
TUBE	7L007	IMPREGNATION	VARNISH
CORE		PRIMARY V.A.	
MOUNTING	A or B		

Fe = 76 @ 60v
 TPV = 2.12





P 1402
 Pri - 115V, 50-60 Cycle
 Sec - 110V V.C.T. - 150 Ma
 Fil #1 - 7.5V.C.T. - 2.5Amps
 Fil #2 - 7.5V.C.T. - 2.5 Amps
 Fil #3 - 2.5 V.C.T. - 10 Amps
 Fil #4 - 1.5 V.C.T. - 6.3 Amps



P 1402
 Pri - 115V, 50-60 Cycle
 Sec - 110V V.C.T. - 150 Ma
 Fil #1 - 7.5V.C.T. - 2.5Amps
 Fil #2 - 7.5V.C.T. - 2.5 Amps
 Fil #3 - 2.5 V.C.T. - 10 Amps
 Fil #4 - 1.5 V.C.T. - 6.3 Amps

Power
 230V @ 50/60 Hz
 TO
 1100 VCT @ 150 MA DC
 7.5VCT @ 2.5A, 7.5VCT @ 2.5A
 2.5V_{CT} @ 10A, 1.5V_{CT} @ 6.3A

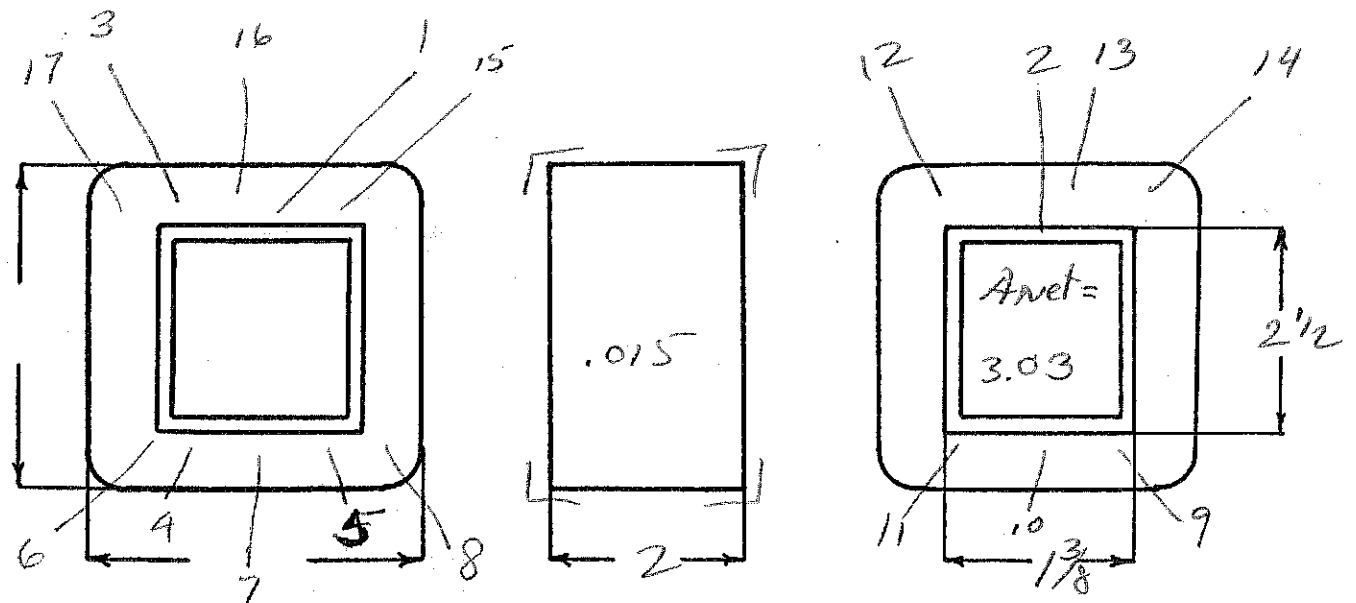
SPEC. NO. P-1402-A-230V

Winding	1-2-3		4-5	6-7-8	9-10-11	12-13-14	15-16-17
	SEC	SHIELD	PRI	FIL #1	FIL #2	FIL #3	FIL #4
Turns	2310	1	451	16	16	6	4
Taps	1155	-	-	8	8	3 ^(bring out only one loop)	2
Wind. Lgth.	1 3/4	1 3/4	1 3/4	← 1 3/4 →		← 1 3/4 →	
Wire Size	#31	.002 C.V. Sh.	#23	#19	#19	DOUBLE #15	#16
T. P. L.	165-14L	†	65-7L	16-1/2 L	16-1/2 L	6-2/3 L	4-1/3 L
Finish	91 1/2%	-	89%	wind in one layer with 3/8" betw Filaments w.o.		wind in one layer with 3/8" betw Filaments w.o.	
Type Lead	#20 DULAC	Sil. Br.	#20 Pr. Br.	Green Sl.	White Sl.	Black Sl.	Red Sl.
Lead Lgth.	9" Cut 16"	3"	9" Cut 16"	9" Cut 14"	9" Cut 14"	9" Cut 14"	9" Cut 14"
Layer Insul.	Double 30#	-	50#	-	-	-	-
Test Volt.	3000	-	1500	1500	1500	2000	1500
Wrapper	2L007VC	1L007VC	2L007GA	2L007GA	← 2L007GA →		2L007GA

TUBE 9L007GK + 1L007VC IMPREGNATION VARNISH

CORE 1 3/8 x 2 1/2 GA. 29 GRADE D STACK 2x2

MOUNTING AA



DESIGNED BY L. Fraser

DATE 5-5-47

DESIGN AND TEST DATA

Rating:

Σ Sec VA = 154.5
 PRI VA = 195
 $I_p = 849$ MA

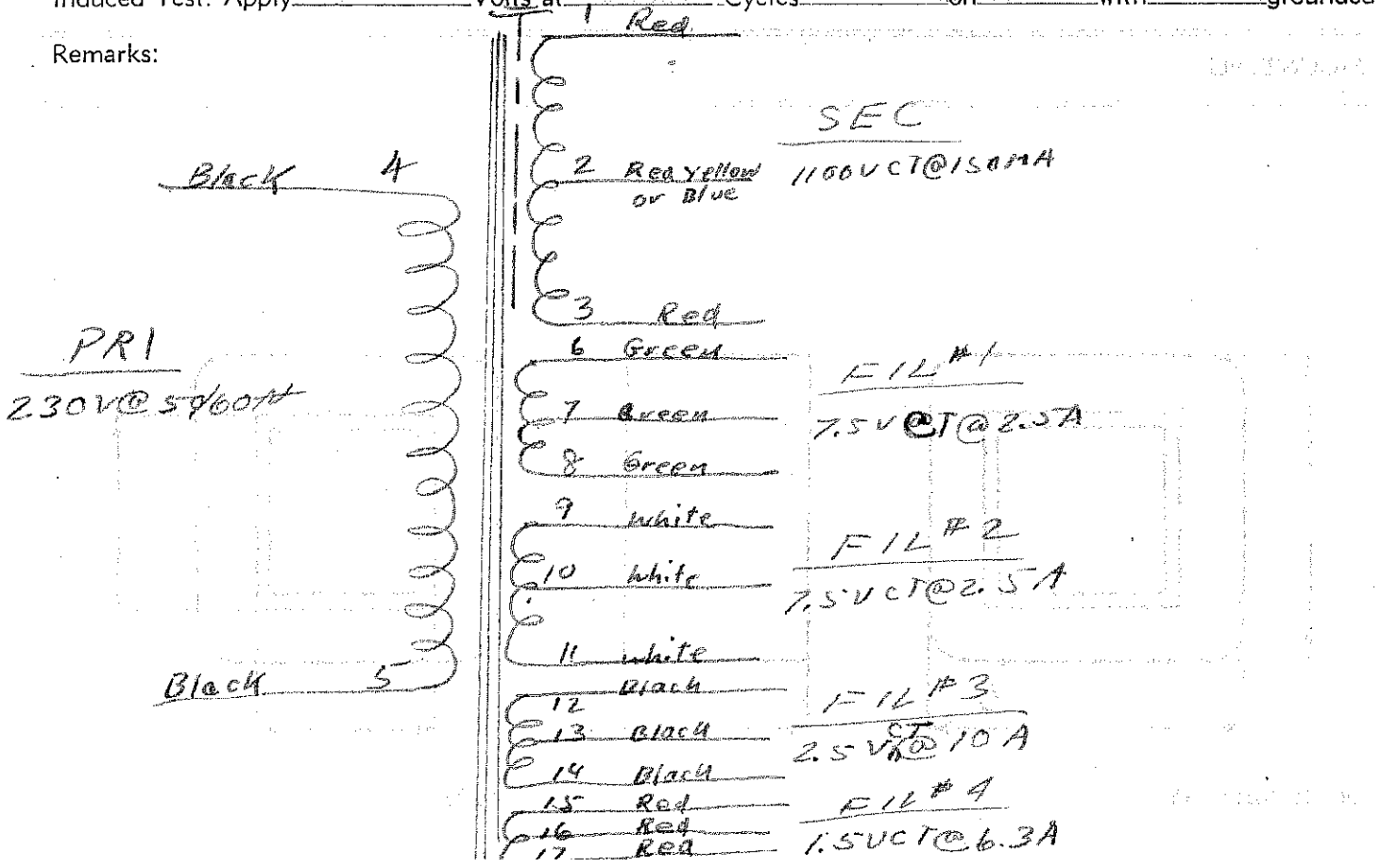
Winding	1-2-3	4-5	6-7-8	9-10-11	12-13-14	15-16-17
	SEC	PRI	FIL #1	FIL #2	FIL #3	FIL #4
Mean Turn	8.88	10.36	11.41	11.41	11.87	11.87
Resistance 25° c	227	8.15	.166	.166	.0163	.037
Pounds Copper	.421	.613	.080	.080	.199	.071
Copper Density	752	600	516	516	652	410
Ratio Volts	587-587	230	8.14	8.14	3.05	2.03
Test to Ground	3000	1500	1500	1500	2000	1500

Iron Induction 11.75 kg @ 500 Cycles

Exciting Current 146 milliamperes @ 230 volts 60 cycles on 4-5

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

Remarks:



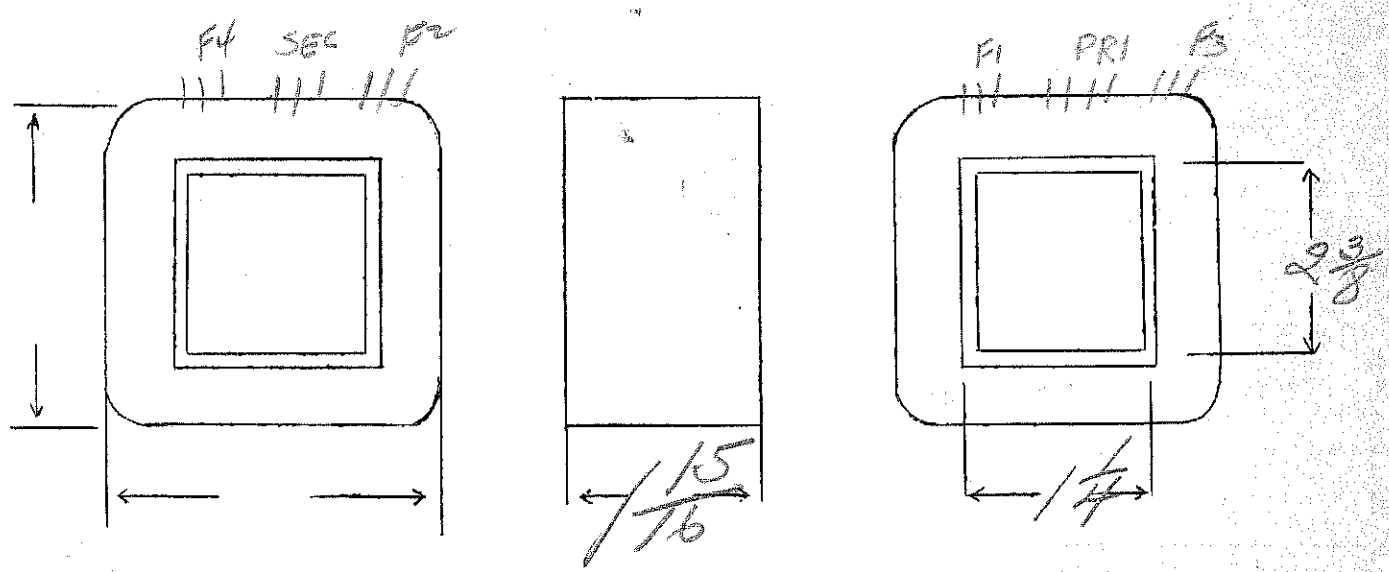
$E_1 - 210 - 230 - 250$
 Black yellow Brown
 $E_5 - 110VCT - 150MA$
 $E_1 - E_2 - 75VCT - 2.5amp$

$E_3 - 2.5VCT - 10amp$
 $E_4 - 1.5VCT - 6.3amp$

SPEC. NO. 1402-21-230

Winding	SEC	SHIELD	PRI	F1	F2	F3	F4
Turns	2640	165	550 510	18	18	6	4
Taps	1320		465	9	9	3	2
Wind. Lgth.	1.75	✓	✓	✓	✓	✓	✓
Wire Size	#31	#31	#23	#19	#19	double #15	#16
T.P.L.	166		67				
Kind Term.	Sil Br	✓	W.O.	WIRE ONLY			
Term. Lgth.	3"	✓	3"	3"	3"	3"	3"
Layer Insul.	double 20#		50#				
Test Volt.							
Wrapper	2L007VC / 1L007VC		3L007GA				DOUBLE
TUBE	7L007H / 1L007VC			IMPREGNATION		VARNISH	
CORE				PRIMARY V.A.			
MOUNTING	B						

heavy finishing - 2L010VC } Saddle
 2L007GA }



DESIGNED BY *JW*

DATE 3/3/38

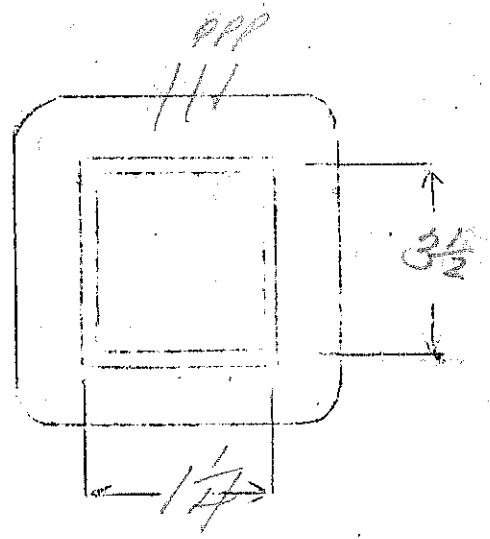
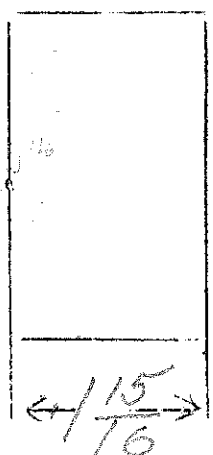
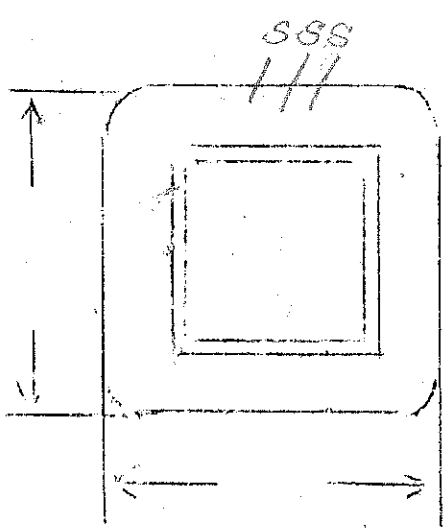
Same as 1403 except
 Ep - 115 + 230V - 25 cycle

$$\frac{N}{E} = 2.45$$

230V-

SPEC. NO. 1403-25 cycle

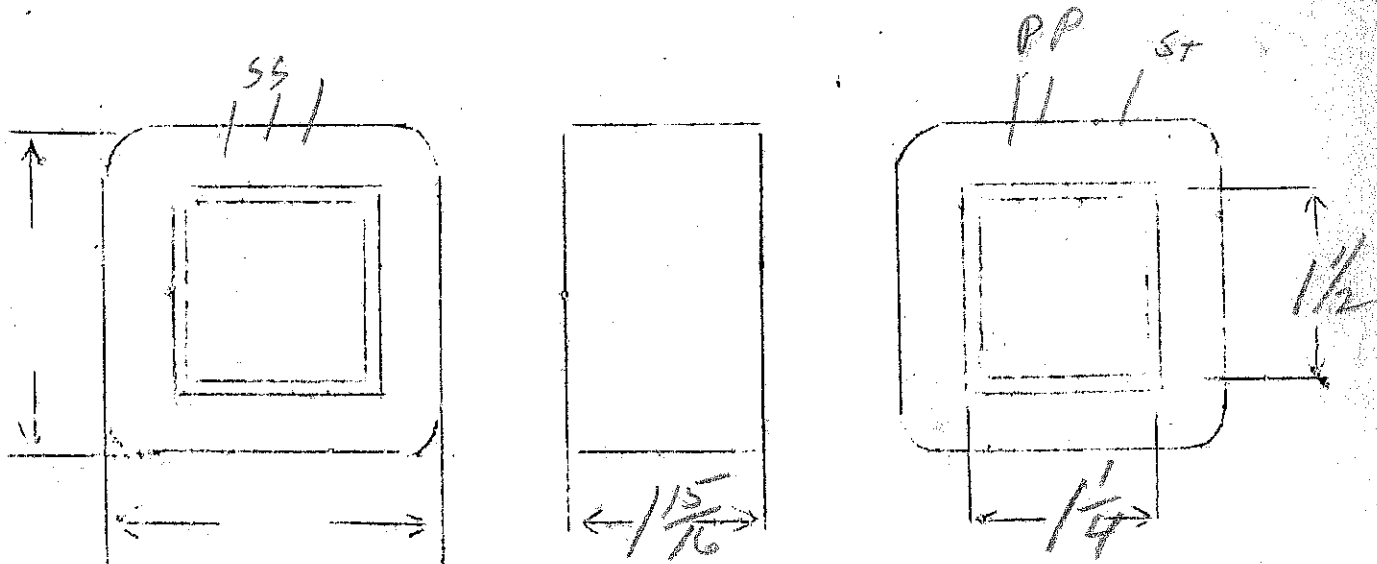
Winding	SEC	SHIELD	PRI		F ₁	F ₂	F ₃	
Turns	2180	158	282	282	14	7	7	
Taps	1090					4	-	
Wind. Lgth.	1.75	1.75	1.75	1.75	-	-	-	
Wire Size	#31	#31	#21	#24	#18	#16	#16	
T.P.L.	158-14	158	48-6	72-4				
Kind Term.	#20 Braid	nl Bs	#20 Braid		WIRE W/			
Term. Lgth.	9"	3	9"	9"	9"	9"	9"	
Layer Insul.	30#		50#					
Wrapper	21007VC	21007VC		21007GA	21007GA	21007GA	21007GA	
TUBE	72007				IMPREGNATION	VARNISH		
CURE	1 1/4 x 3 1/2							



Ep - 230V
 E3 - 800V.CT - 150MA

SPEC. NO. 1403 - 230V

Winding	SEC	SHIELD	PR1	green F1	white F2	black F3
Turns	2540	143	716	16	8	8
Taps	1270	—	—	—	4	—
Wind. Lgth.	1.75	1.75	1.75	—	—	—
Wire Size	#30	#30	#23	#18	#16	#16
T.P.L.	143-18	143	72-10	10ne layer		
Kind Term.	#30 Round	SILVER	#30 Round	WIRES ONLY		
Term. Lgth.	9"	3"	9"	9"	9"	9"
Layer Insul.	30#	5	50#			
Wrapper	2007VC	1007VC	2007VC	2007VC	2007VC	2007VC
TUBE	72007			IMPREGNATION		VARNISH
CURE	1 1/4 X 1 1/2					



$E_p = 120V$

$E_s = 800V.C.T. - 150Ma$

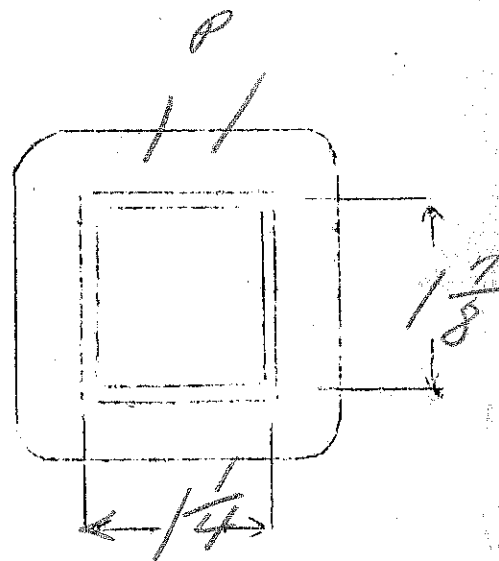
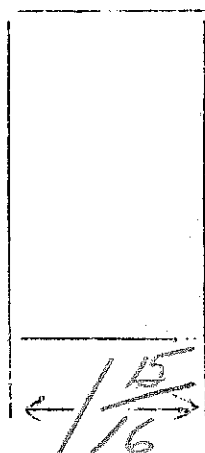
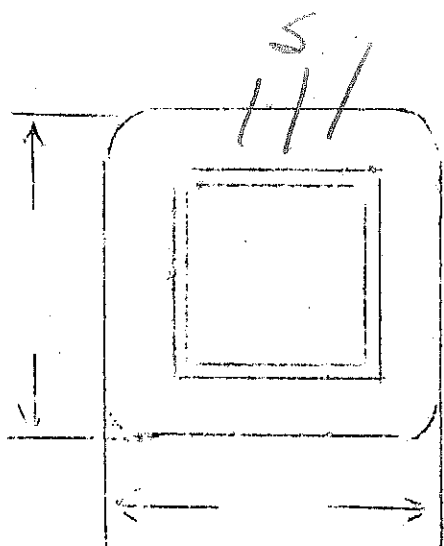
$E_3 = 25V - 4amps$

$E_{F1} = 5V - 3.5amps$

$E_{F2} = 25V.C.T. - 5amps$

SPEC. NO. 1403

Winding	SEC	SHIELD	PRI	F ₁	F ₂	F ₃	
Turns	2300	145	3/5	14	7	7	
Taps	1150	—			4	4	
Wind. Lgth.	1.75	—					
Wire Size	#30	#30	#20	#17	#16	#16	
T.P.L.	145-16		4/6-7	one layer			
Kind Term.	#20 PBR	Sil Br	#20 PBR	WIRE ONLY			
Term. Lgth.	9"	3"	9"	9"	9"	9"	
Layer Insul.	double 16#		50#				
Wrapper	20007VC	1007VC	2007GA				20007GA
TUBE	7L007			IMPREGNATION			VARNISH
CURE	1/4 x 1/8						



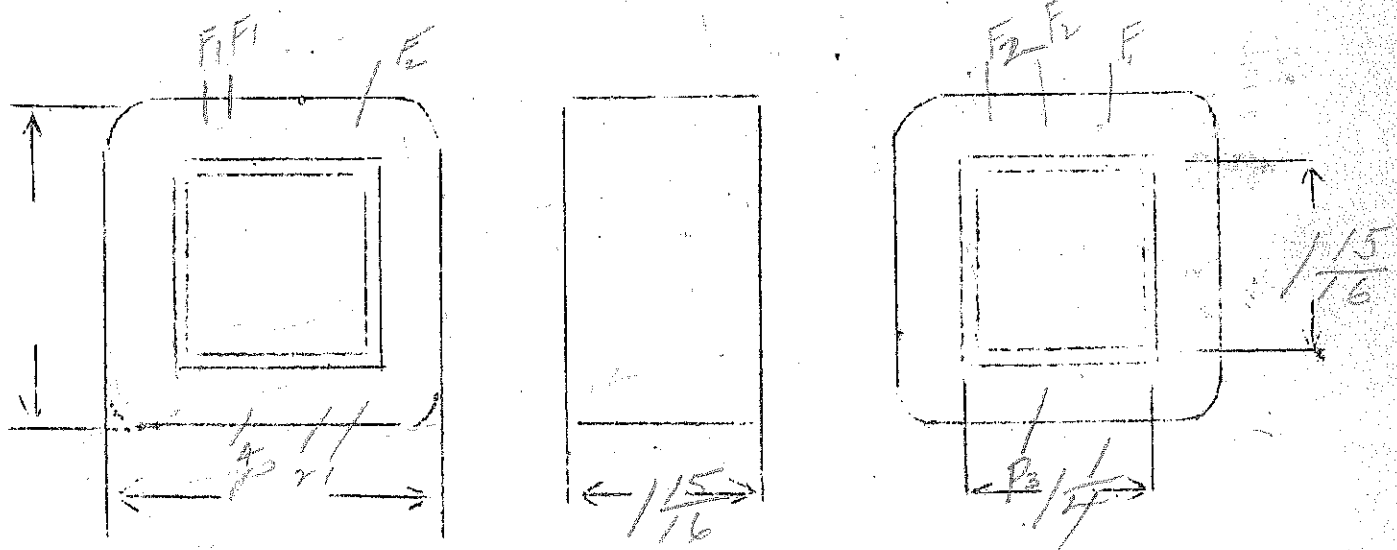
$E_p = 100 - 110 - 120$
 $E_{F1} = 5V - 20 \text{ amps}$
 $E_{F2} = 2.5V - 10 \text{ amps}$

Same as 1291 except for primary

SPEC. NO. 1404

Winding	P	F ₁	F ₂				
Turns	306 281	14	7				
Taps	256	7	4				
Wind. Lgth.	1.75	1.75	1.75				
Wire Size	#20	double #12	double #15				
T.P.L.	49	-	-				
Kind Term.	WIRE ONLY						
Term. Lgth.	6"	6"	6"				
Layer Insul.	50#						
Wrapper	52007VC 210076A	52007VC 210076A	52007VC 210076A				
TUBE	7L007	IMPREGNATION		VARNISH			
CURE	1/4" x 1/15"						

use VC in single winding under leads



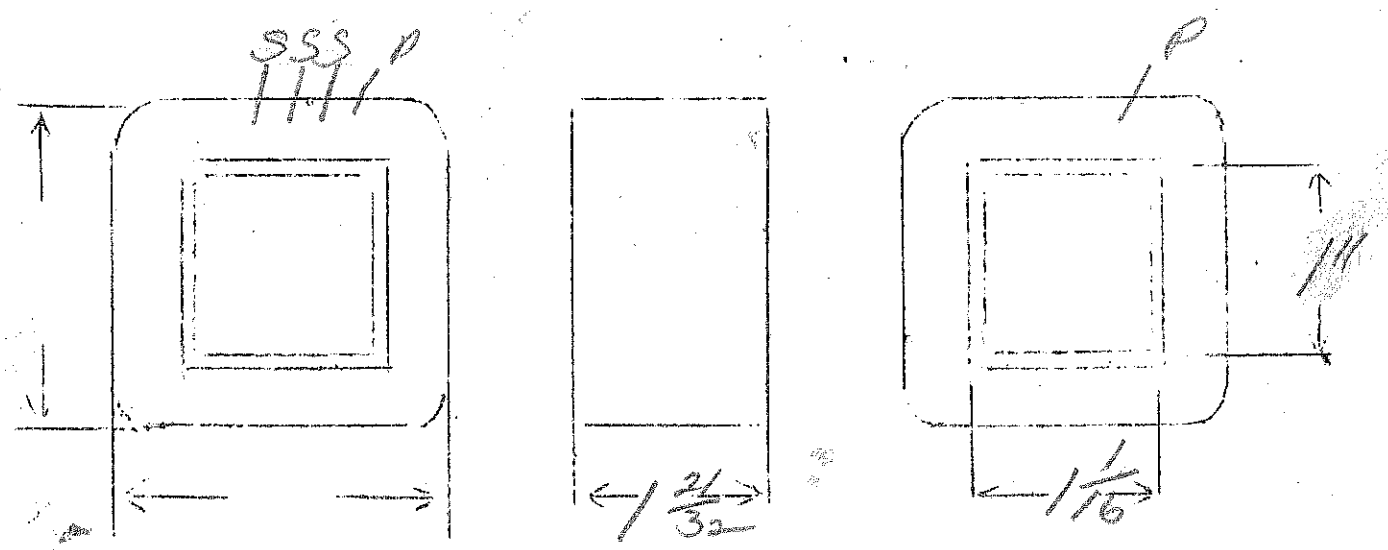
• standard F on primary
 12" leads thru granulation sec. side, use #14
 Rubber covered stranded wire.

$V_p = 230V - 50A$
 $E_3 = 6.75V - 45MA CT.$
 $E_1 = 5V - 3amps$
 $E_2 = 6.3V CT. - 2.2amps.$
 $E_3 = 6.3V - 1.4amps$

$B = 12,300$
 $\frac{N}{E} = 5.7$

SPEC. NO. 1405

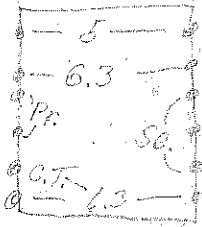
Winding	SEC	SHIELD	PRI	F ₁	F ₂	F ₃
Turns	4100	210	1300	32	40	40
Taps	2050	—	—	—	20	—
Wind. Lgth.	$\frac{15}{32}$	$\frac{15}{32}$	$\frac{15}{32}$	—	—	—
Wire Size	#35	#35	#28	#19	#20	#21
T.P.L.	210-20	210-1	107-13			
Kind Term.	#20 PBR	oil PBR	#20 PBR	WIRE ONLY		
Term. Lgth.	9"	3"	9"	9"	9"	9"
Layer Insul.	20#	—	30#	—	—	—
Wrapper	1L007K	1L007K	2L0056A		2L0056A	2L0056A
TUBE	7L007	IMPREGNATION			VARMISH	
CURE	$1\frac{1}{8} \times 1\frac{1}{8}$	Double Impregnated				



380
5.4
6.6



ON LINE



Winding
Turn
Tap
Wind. Ratio
Wire Size
I.P.T.
Kind Term
Term Term
Layer Insul
Winding
TYPE
CORE

TRANSFORMATION



$E_p = 115V$

$E_s = 1000V.C.T. - 250MA$

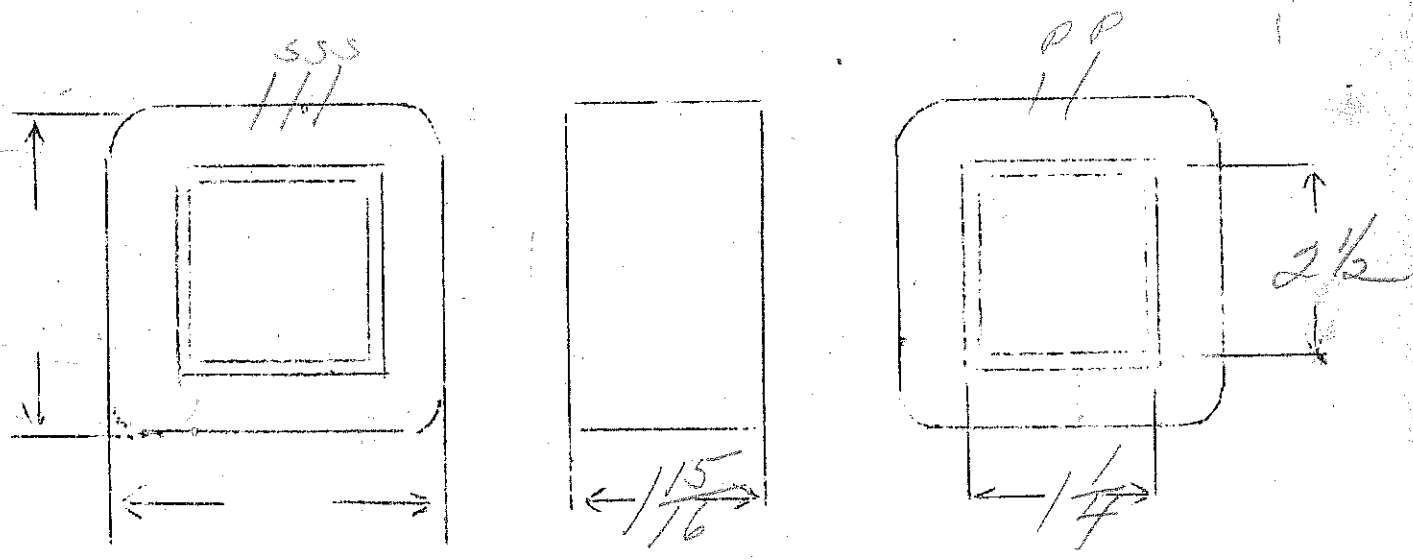
$\frac{N}{F} = 182$

$E_{F1} = 5V - 3amps$

$E_{F2} = 6.3V - 4amps$

SPEC. NO. 1406

Winding	SEC	SHIELD	PRI	F1	F2		
Turns	1960	124	208	10	13		
Taps	980	-		-	6		
Wind. Lgth.	1.75	1.75	1.75	-	-		
Wire Size	#28	#28	#19	#18	#17		
T.P.L.	124-16	124	43-5				
Kind Term.	WIRES	ONLY					
Term. Lgth.	3	3	3	3	3		
Layer Insul.	30 #		50 #				
Wrapper	2L007VC	2L0056A	1L007VE 1L0076A		1L007VC 2L007EA		
TUBE	7L007 + 1L007VC			IMPREGNATION		VARNISH	
CURE	1 1/4" x 2 1/2"						



(over)

(53)

$E_p = 230V. - 25 \sim$

$E_s = 750V. - 100Ma.$

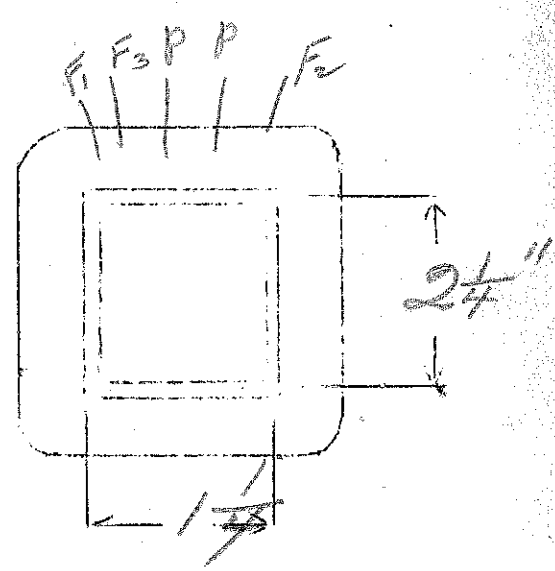
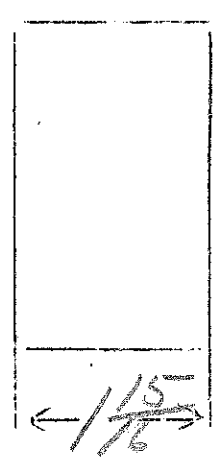
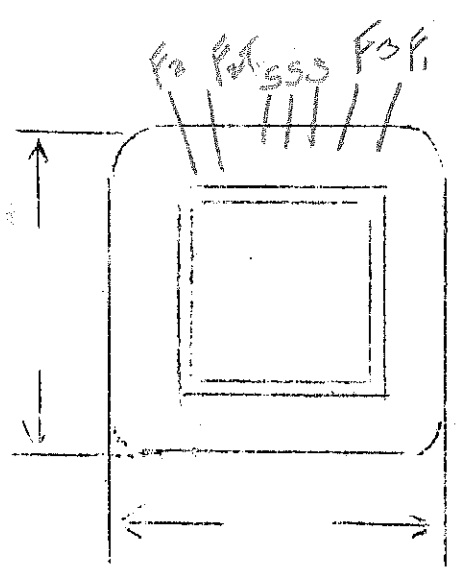
$E_{F1} = 5V - 3 \text{ amps}$

$E_{F2} = 6.3V. CT. - 2 \text{ amps}$

$E_{F3} = 6.3V. - 3.5 \text{ amps}$

SPEC. NO. 1407-25 N

Winding	SEC	SHIELD	PRI	F_1 ⁹²	F_2 ¹⁰⁵	F_3 ¹³³
Turns	3200	180	900	22	28	28
Taps	1600	—	—	—	14	—
Wind. Lgth.	1.75	1.75	1.75			
Wire Size	#32	#32	#25	#18	#19	#17
T.P.L.	180-18	180-1	83-11	2 layers		
Kind Term.	#20 PBRail	#20 PBRail	#20 PBRail	WIRE ONLY		
Term. Lgth.	9"	3"	9"	9"	9"	9"
Layer Insul.	30#	—	40#	—	—	—
Wrapper	2L007VC	2L007VC	2L007GA	2L007GA		2L007GA
TUBE	2L007			IMPREGNATION	V-DOUBLE IMP.	
CURE	1 hr @ 2 1/4"					

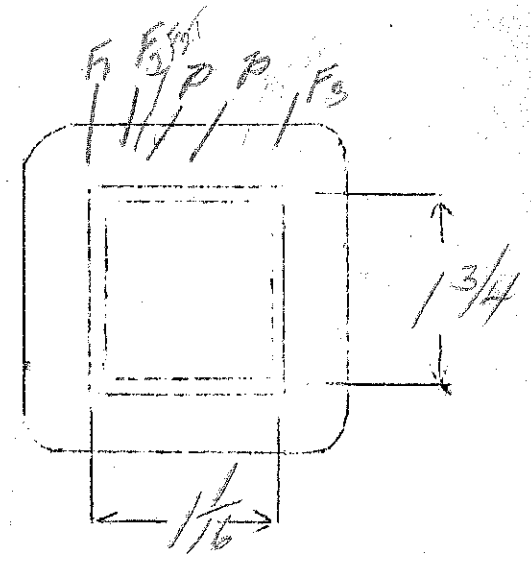
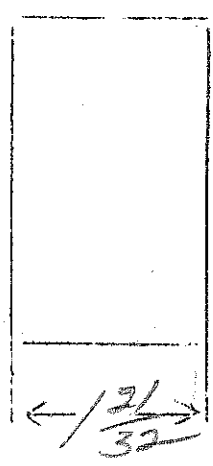
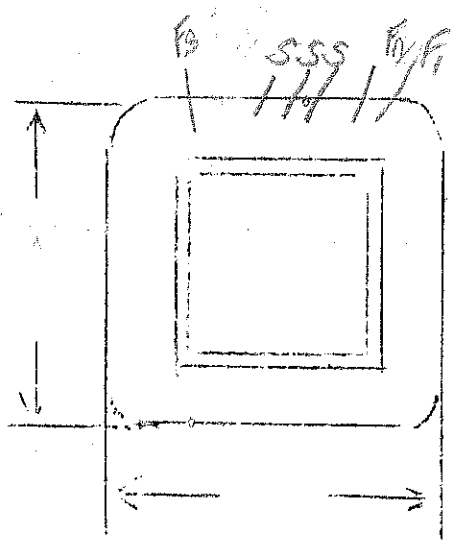


(53)

$E_p = 230V$
 $E_s = 750V, C.T. - 100MA$
 $E_{F1} = 5V - 3 \text{ amperes}$
 $E_{F2} = 6.3V, C.T. - 2 \text{ amperes}$
 $E_{F3} = 6.3V. - 3.5 \text{ amperes}$

SPEC. NO. 1407

Winding	SEC	SHIELD	PRI	F ₁ ⁷⁸	F ₂ ⁸⁶	F ₃ ¹¹
Turns	2740	173	760	18	23	23
Taps	1370	—	—	—	12	—
Wind. Lgth.	$\frac{15}{32}$	$\frac{15}{32}$	$\frac{15}{32}$	—	—	—
Wire Size	#33	#33	#25	#18	#19	#17
T.P.L.	173-16	173	70-11	2 layers		
Kind Term.	#20 P/Braid	Ail Br	#20 P/Braid	WIPE ONLY		
Term. Lgth.	9"	3"	9"	9"	9"	9"
Layer Insul.	20 #		30 #			
Wrapper	1007VC	1007VC	20056A	20056A	20056A	20056A
TUBE	71007	IMPREGNATION			VARNISH	
CURE	$1 \frac{1}{16} \times 1 \frac{3}{4}$				double Impregnation	

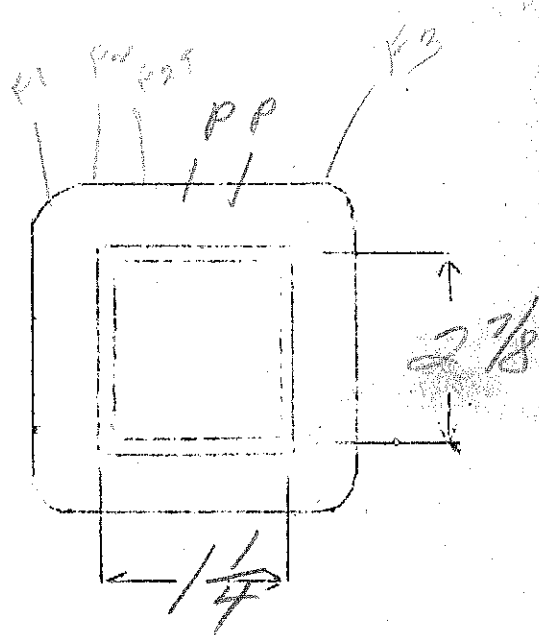
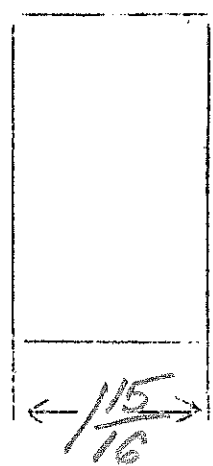
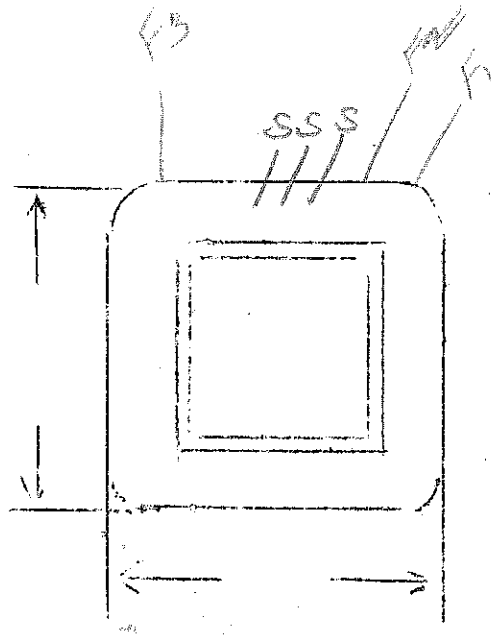


$E_p = 230 - 25V$
 $E_3 = 750V - 125MA$
 $E_{F1} = 5V - 3amps$
 $E_{F2} = 6.3V - 2amps CT$
 $E_{F3} = 6.3V - 6amps$

$\frac{V}{F} = 2.9$

SPEC. NO. 1408-25V

Winding	SEC	SHIELD	PRIM	F ₁	F ₂	F ₃
Turns	2350	148	665	16	20	20
Taps	1175	—	—	—	10	—
Wind. Lgth.	1.75	1.75	1.75	—	—	—
Wire Size	#31	#31	#24	#18	#19	double #18
T.P.L.	148-16	148	75-9	—	—	—
Kind Term.	#20 braided	sil Br	#20 braided	WIRE ONLY		
Term. Lgth.	9"	3"	9"	3"	3"	3"
Layer Insul.	30#	—	40#	—	—	—
Wrapper	2L007VC	2L007VC	2L007CA	—	2L007CA	2L007CA
TUBE	7L007	IMPREGNATION			VARNISH	
CURE	1 1/4 x 2 7/8				20 minutes	



$E_p = 230V$

$E_s = 950V - 125MA$

$\frac{N}{E} = 36$

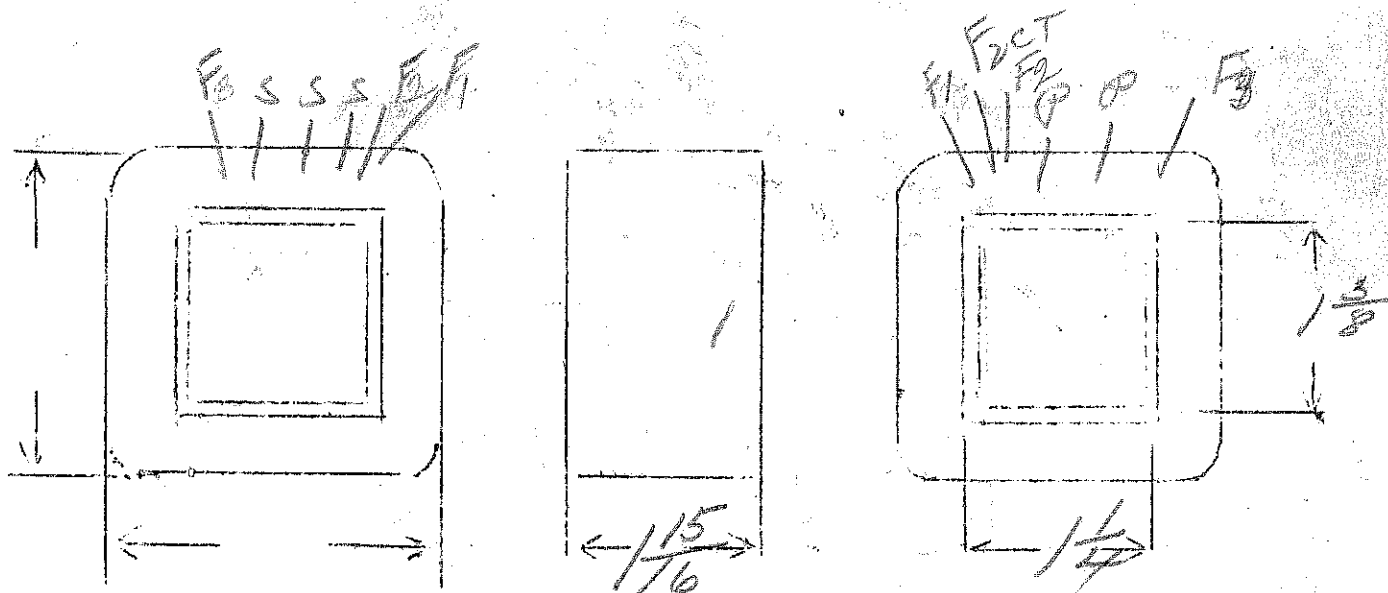
$E_{F1} = 5V - 3amps$

$E_{F2} = 6.3V CT - 2amps$

$E_{F3} = 6.3V. - 6.3amps$

SPEC. NO. 1408

Winding	SEC	SHIELD	PRI	F ₁ ⁸⁴	F ₂	F ₃ ^{1.47}
Turns	2900	185	826	20	26	25
Taps	1450			—	13	—
Wind. Lgth.	1.75	1.75	1.75	—	—	—
Wire Size	#32	#32	#24	#18	#19	#15
T.P.L.	185-16		76-11	WIRE ONLY		
Kind Term.	#30 P.Braid	Sil Braid	#20 P.Braid	WIRE ONLY		
Term. Lgth.	9"	3"	9"	9"	9"	9"
Layer Insul.	30#	—	40#	—	—	—
Wrapper	2007K	2007K	2007EA		2007K	2007EA
TUBE	7007			IMPREGNATION		double - varnish
CURE	1 1/4 x 1 3/8					



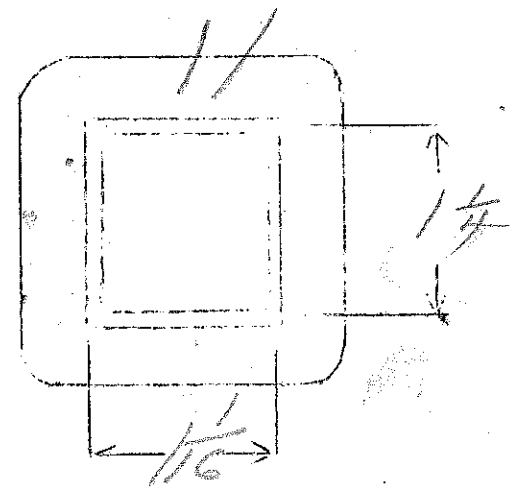
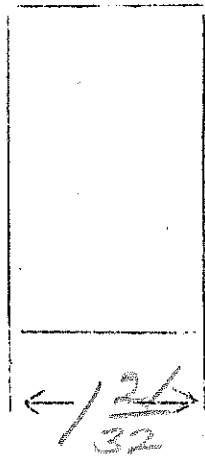
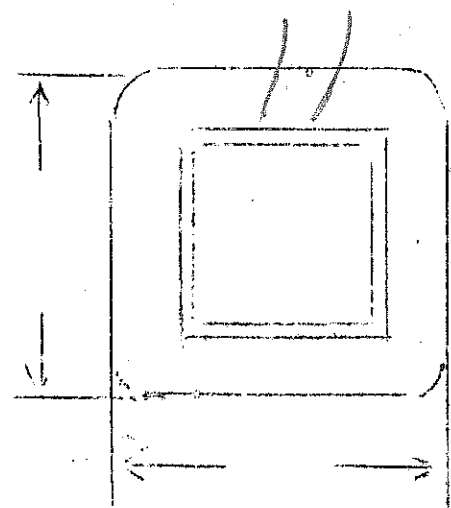
380

Ep- 220V
 EF = 2.5V - 30 amps

42

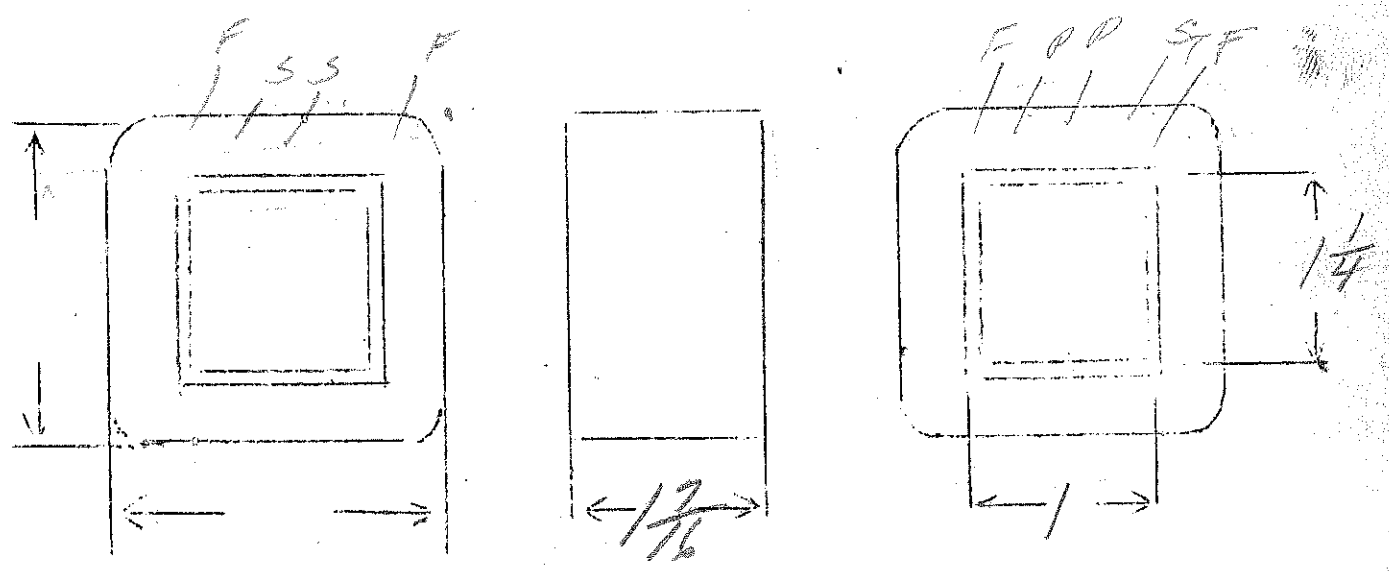
SPEC. NO. 1409

Winding	PR1	SEC				
Turns	950	11				
Taps	—	—				
Wind. Lgth.	15					
Wire Size	#26	#12	30 strands			
T.P.L.	80-12	3L				
Kind Term.	WIRE ONLY					
Term. Lgth.	3"	3"				
Layer Insul.	30 #	—				
Wrapper	36056A	36056A				
TUBE	71007		IMPREGNATION		VARNISH	
CURE	1 1/6 x 1 1/4					



$E_p = 125V$
 $E_s = 370V$ d.c. at start of filter - 640V. a.s. under load 50M
 $E_{F1} = 5V - 2$ amps
 $E_{F2} = 6.3V - 116$ amps
 $\frac{N}{F} = 4.45$
 SPEC. NO. 1410

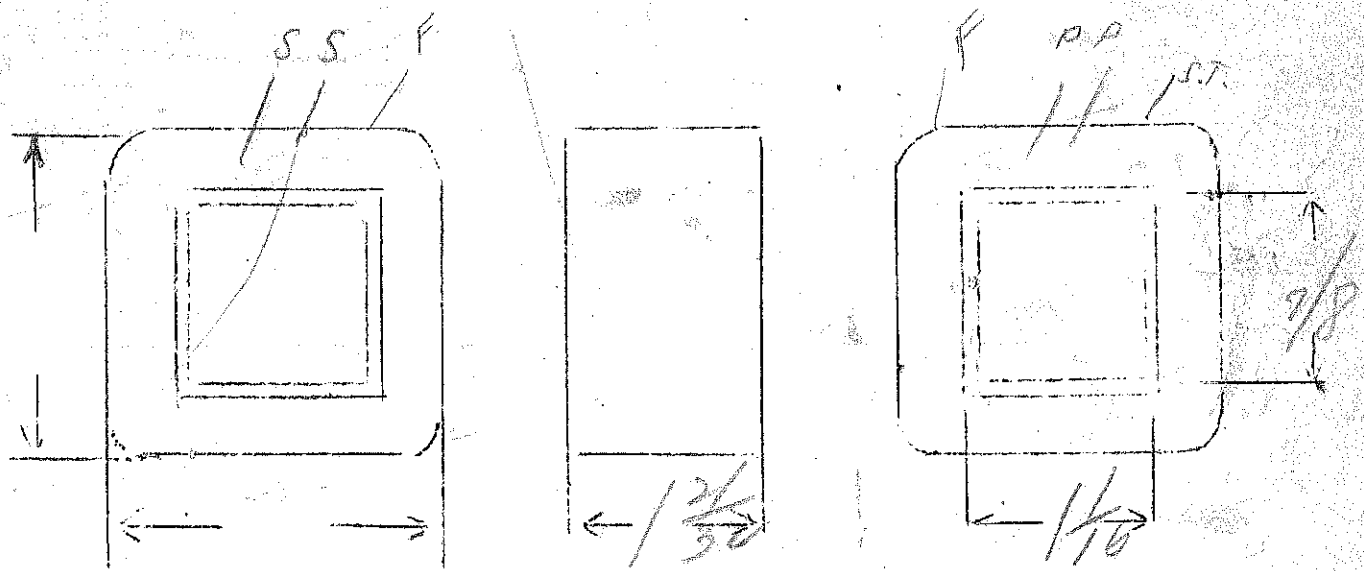
Winding	SEC	SHIELD	PRI	F ₁	F ₂		
Turns	3200	70	555	25	32		
Taps	1600	—	—	—	—		
Wind. Lgth.	1.25	1.25	1.25	—	—		
Wire Size	#35	#26	#26	#20	#21		
T.P.L.	182-18	70-1	70-8	—	—		
Kind Term.	#20 Pbraid	WIRE ONLY	#20 Pbraid	WIRE ONLY	WIRE ONLY		
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	20#		30#				
Wrapper	2L007VC	2L007VC	2L0056A	2L0056A	2L0056A		
TUBE	4L007			IMPREGNATION		VARNISH	
CURE	1x1# NW						



$E_p = 115V$
 $E_s = 250VCT-250Ma$
 $E_F = 5V-3amps$

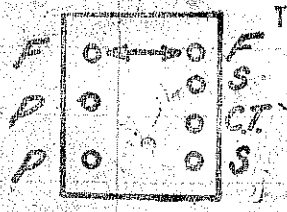
SPEC. NO. 1411

Winding	PR1	SHIELD	SEC	F		
Turns	670	100	1650	33		
Taps	—	—	825	—		
Wind. Lgth.	$\frac{15}{32}$	$\frac{15}{32}$	$\frac{15}{32}$	—		
Wire Size	#25	#28	#28	#18		
T.P.L.	70-10	97	97-18			
Kind Term.	#20 P Braid	sil Br	#20 P Braid	WIPE ONLY		
Term. Lgth.	9"	3"	9"	9"		
Layer Insul.	30 #	30 #	30th			
Wrapper	26007K	26007K	260056A	260056A		
TUBE	76007	IMPREGNATION		VARNISH		
CURE	$\frac{1}{4}$ hr $\frac{1}{8}$	A-MTS.				

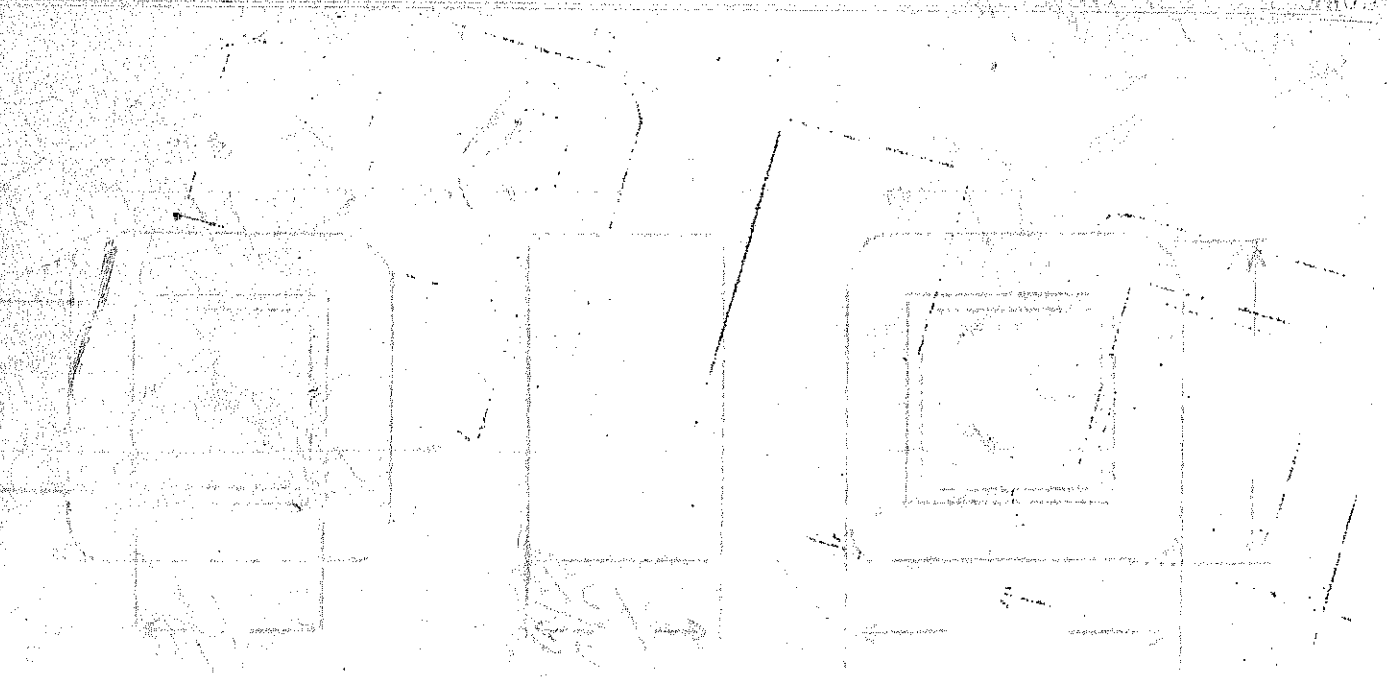


OFF. JAS'60

on 110 pri - 192 ma - 10wpl - 242V



T1411
 Pri - 115V - 50-60 Cycle
 Black Braid
 Sec - 250 V.C.T. - 250 Ma
 Red - Blue C. T.
 Fil - 5V - 3 Amps
 Green Sleeving

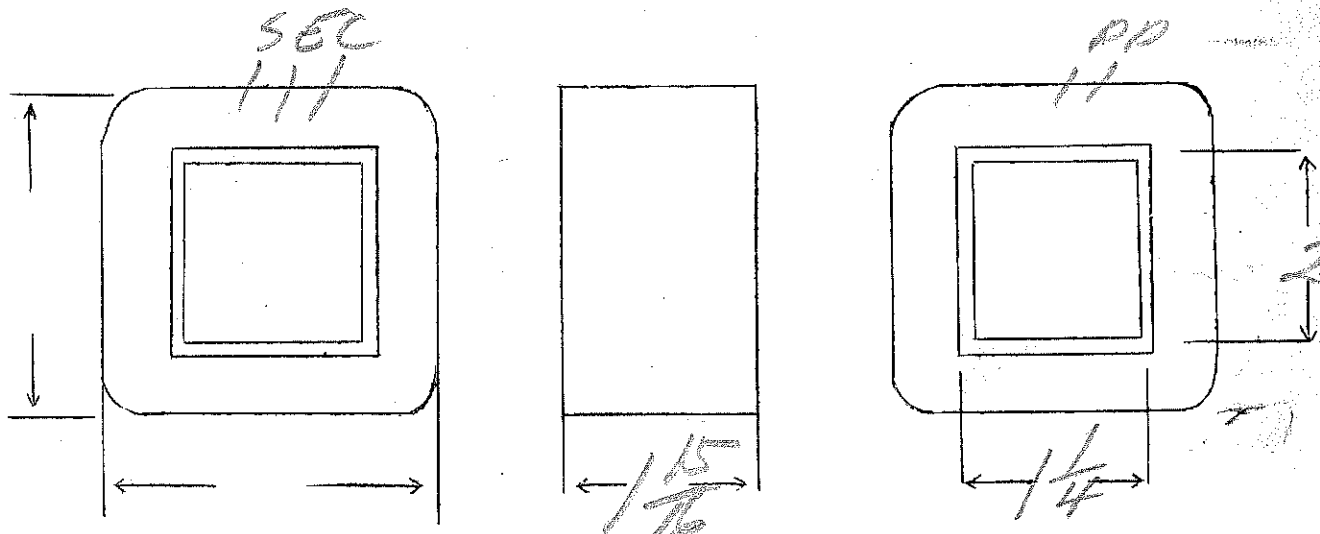


Ep-230

- same as 1412

SPEC. NO. 1412-230V

Winding	SEC	SH/2V	PR1	blue F ₁	green F ₂	white F ₃
Turns	2300	145	620	18	14	18
Taps	1150	—	—	—	—	9
Wind. Lgth.	1.75	1.75	1.75	—	—	—
Wire Size	#30	#30	#23	#18	#17	#20
T.P.L.	145-16	—	66			
Kind Term.	#20 #20 Pb		#20 #20 Pb	WIRE ONLY		
Term. Lgth.	9"	3"	9"	9"	9"	9"
Layer Insul.	double 167		50#			
Test Volt.						
Wrapper	20077C	10077C	20076A	20076A	20076A	
TUBE	71007			IMPREGNATION	(DOUBLE VARNISH)	
CORE	1/4 x 2			PRIMARY V.A.		
MOUNTING	A					



DESIGNED BY

JW

DATE

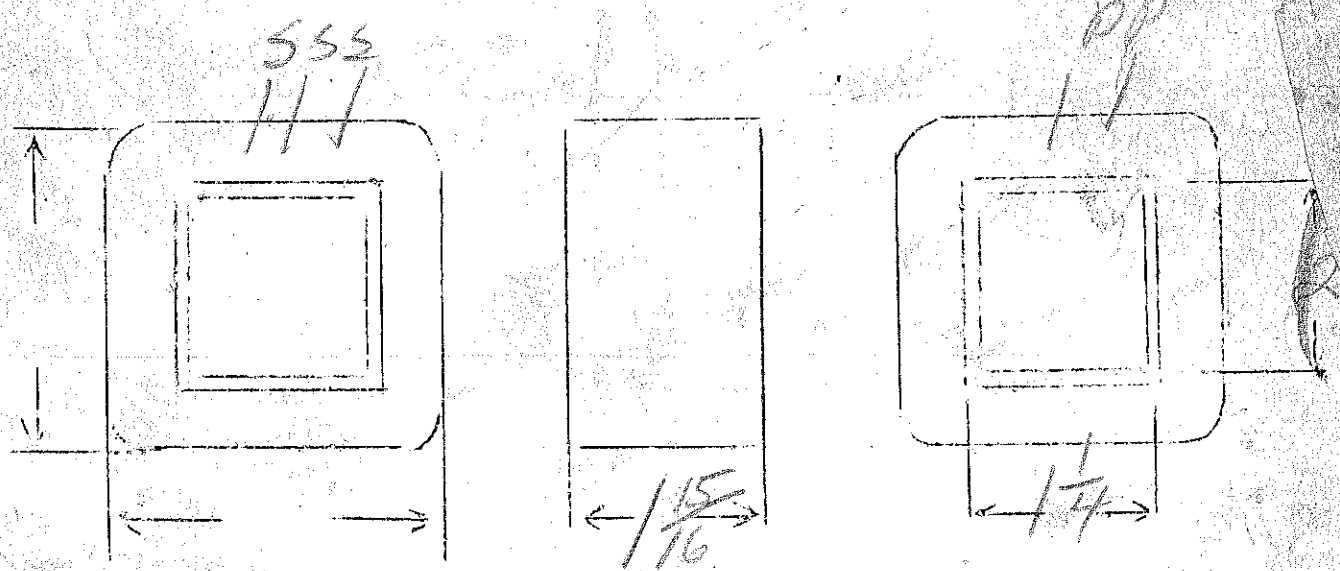
7/27/37

263

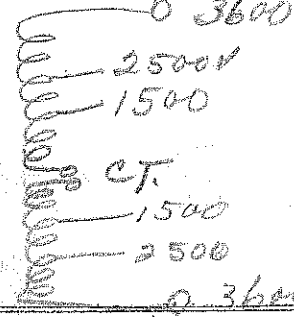
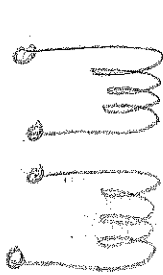
Ep-120
 Es-800V.C.T. - 150Ma
 F1-5V-3.5amps
 F2-6.3V-3amp C.T.
 F3-6.3V.C.T. - 2amps

SPEC. NO. 1412

Winding	SEC	SHIELD	PRI	F ₂	F ₁	F ₃
Turns	2300	145	315	18	14	18
Taps	1150			9		9
Wind. Lgth.	1.75	1.75	1.75			
Wire Size	#30	#30	#20	#18	#17	#20
T.P.L.	145-16		46-7			
Kind Term.	#20	Silber	#20	WIRE ONLY		
Term. Lgth.	9	3	9	9	9	9
Layer Insul.	double 16#		50#			
Wrapper	2L007VC	1L007VC	2L007GA	2L007GA	2L007GA	2L007GA
TUBE	7L007			IMPREGNATION		VARNISH
CURE	1/4 x 2		AMT6			



730
15
145

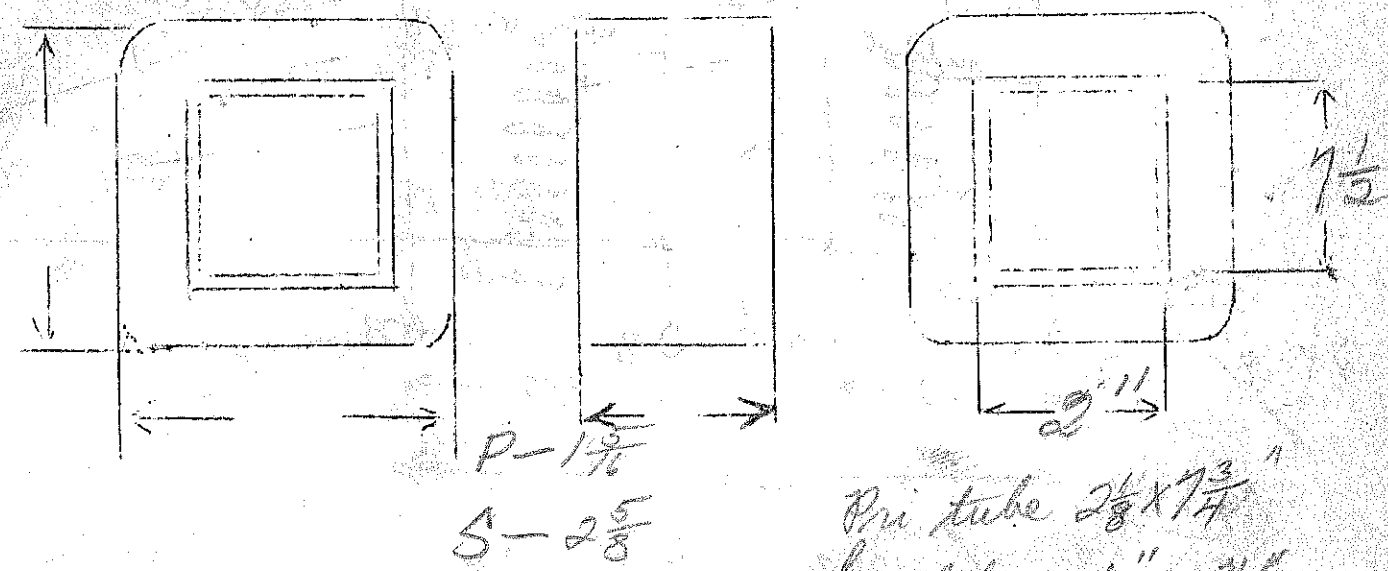


Pri - 110 - 220V
 Sec 7200V CT - lamp
 To be built in 2 units - 110 to 3600V - lamp
 $\frac{N}{E} = 4.3$
 SPEC. NO. 1413

Winding	SEC DIE		PRIMARY DIE			
	P ₁	P ₂	P ₁	P ₂		
Turns	1650		48	48		
Taps	1150 - 690		-	-		
Wind. Lgth.	2 $\frac{1}{16}$		1 $\frac{1}{16}$			
Wire Size	#20		double #13	double #13		
T.P.L.	58-29L		7-7	7-7		
Kind Term.	WIRE ONLY					
Term. Lgth.	12H					
Layer Insul.	50#1		1.005			
Wrapper	3L005GA		2L005GA	3L005GA		
TUBE	S-10L007 + 3L007HE		IMPREGNATION			VARNISH
CURE	2" x 7 $\frac{1}{2}$ " (double 3" E, cut 1 E off 5/8")					

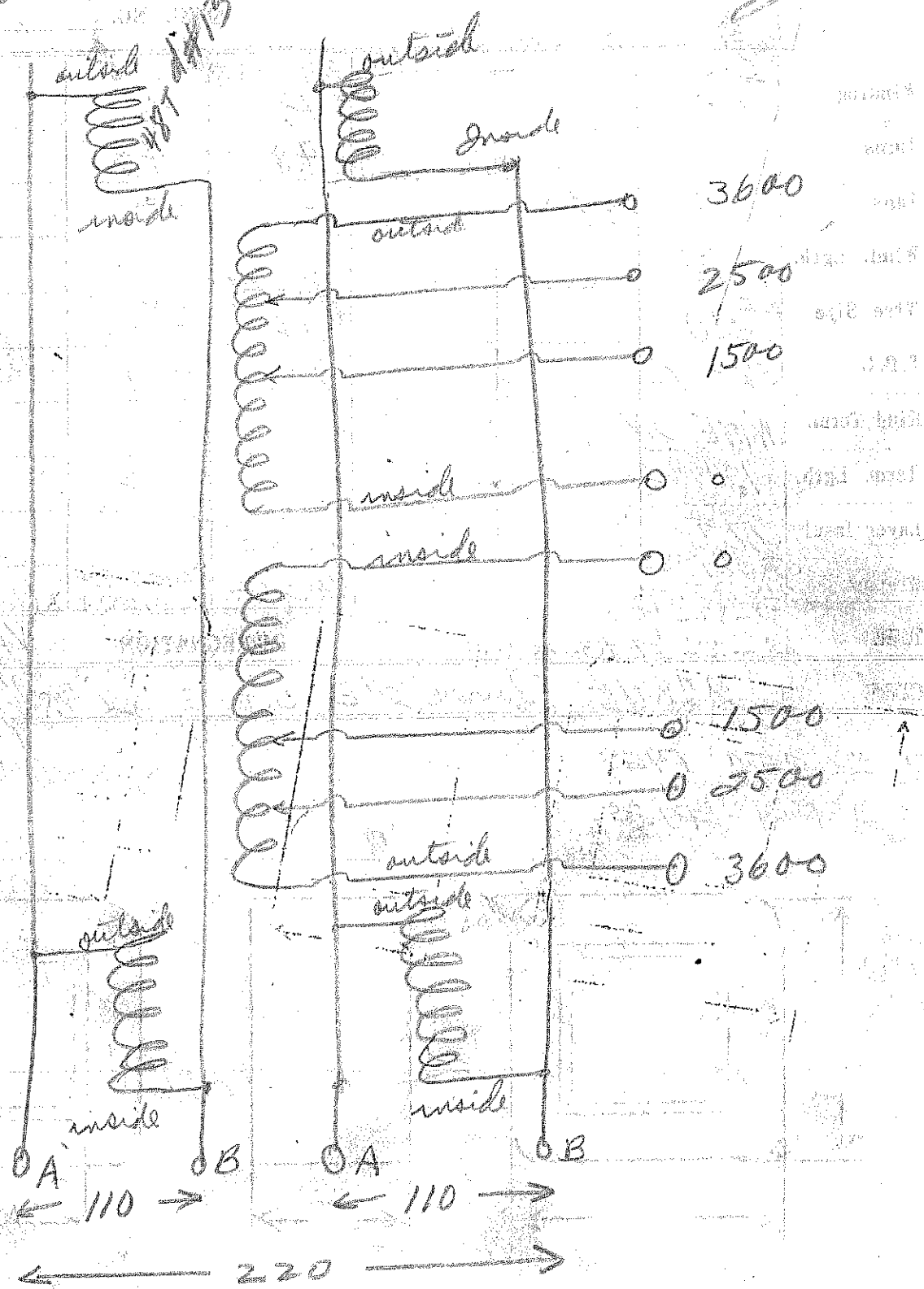
WIND 2 SEC PIES
 " 2 PRI PIES

Double Impregnation



Pri tube 2 $\frac{1}{8}$ x 7 $\frac{3}{4}$ "
 Sec tube 2 $\frac{1}{8}$ x 7 $\frac{3}{4}$ "

Sc pile Reverse assembly
 Pri pile nat Reverse assembly



for Parallel 110V
 or
 Series 220V operation

Pri - 110 - 115

7500 V. Insulation.

Fil #1 - 7.5 V - 3 A or 54.5

" #2 - 7.5 V - 3 A or

" #3 - 2.5 V - 3 A or

" #4 - 1 V - 2 A or

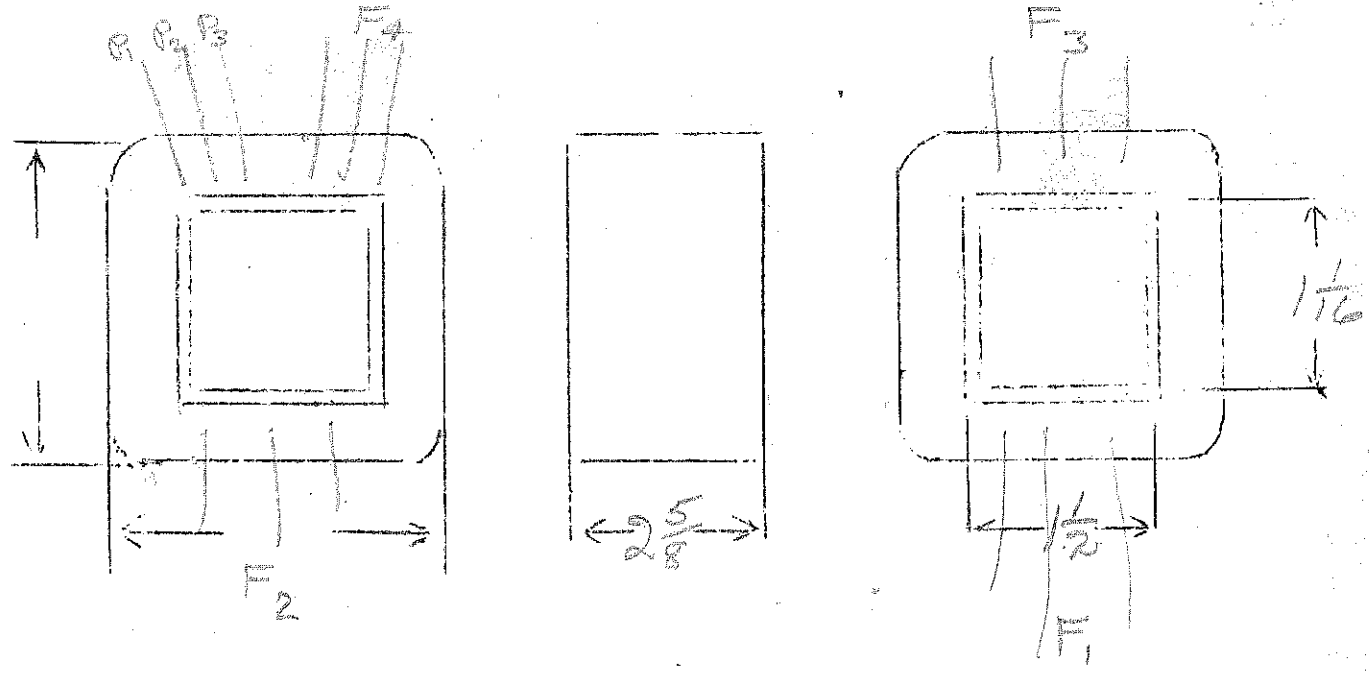
$$\frac{N}{E} = 5.45$$

SPEC. NO. 1414

Winding	Pri	Fil #1	#2	#3	#4		
Turns	6277	44	44	15	6		
Taps	600	2.2	2.2	8	3		
Wind. Lgth.	2 ³ / ₁₆						
Wire Size	#24	#16	#16	#16	#18		
T.P.L.	105-6						
Kind Term.	Wire only						
Term. Lgth.	5"						
Layer Insul.	50*						
Wrapper	3L007VC 2L005GA						

TUBE | 7L 007 + 1L 007 VC | IMPREGNATION - Varnish

CURE | 1 1/2 x 1 1/2 | 2 x 2 stacks



Wuorow

$E_p = 105-110-115V$

VA = 650

$E_s = 2400V$ - tap at 1800V - 250 Ma

$\frac{N}{E} = 1.75$

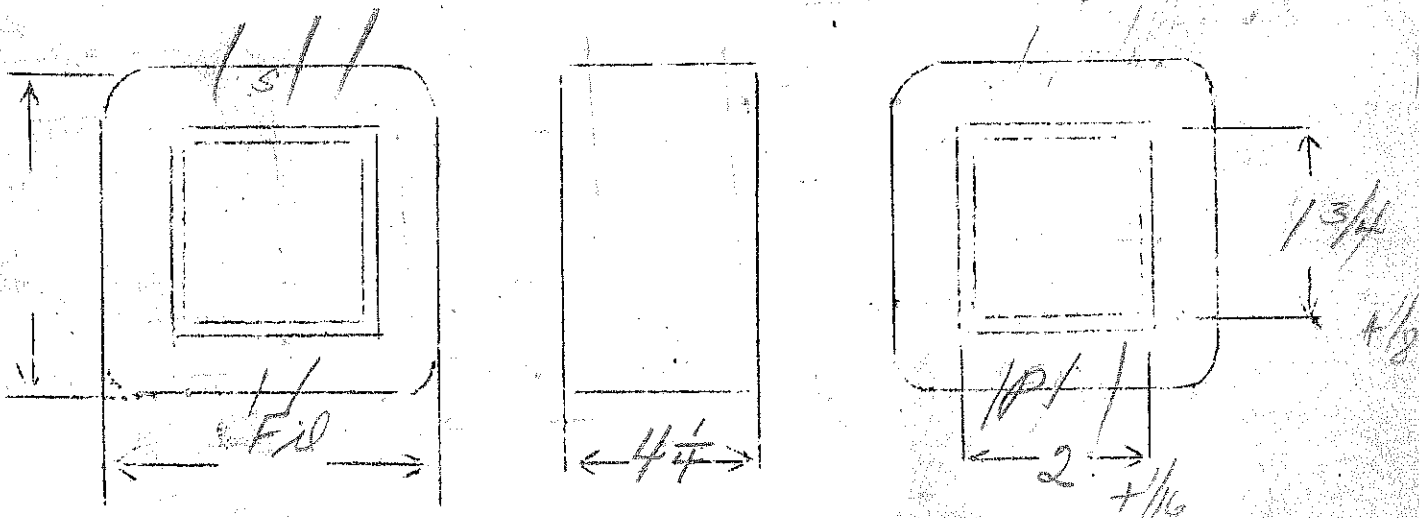
$E_p = 5V - 10A$ CT.

SPEC. NO.

1415

Winding	SEC	PRI	FIL			
Turns	4500	202 ^{black} 193 ^{red}	10 ^{green}			
Taps	3300	185 ^{blue}	5			
Wind. Lgth.	3 $\frac{3}{8}$	0 white	-			
Wire Size	#27	#12	#12			
T.P.L.	220-22	4 Layers				
Kind Term.	WIRE ONLY					
Term. Lgth.	4"	12"	12"			
Layer Insul.	50#					
Wrapper	31007VC 210056A	310056A	210056A 11010RP			
TUBE	10L007+2L007VC	IMPREGNATION		VARNISH		
CURE	2 x 13/4	2 x 2				

panel on sec. only
Spiral Sec Lead all on one side of Coil.

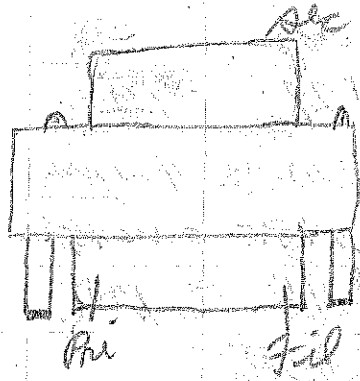
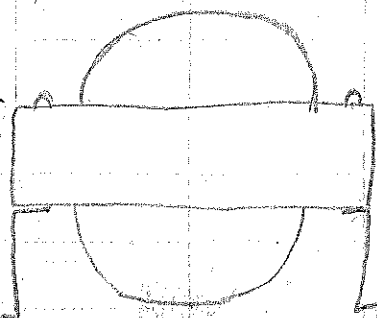


4551-4
4151-6

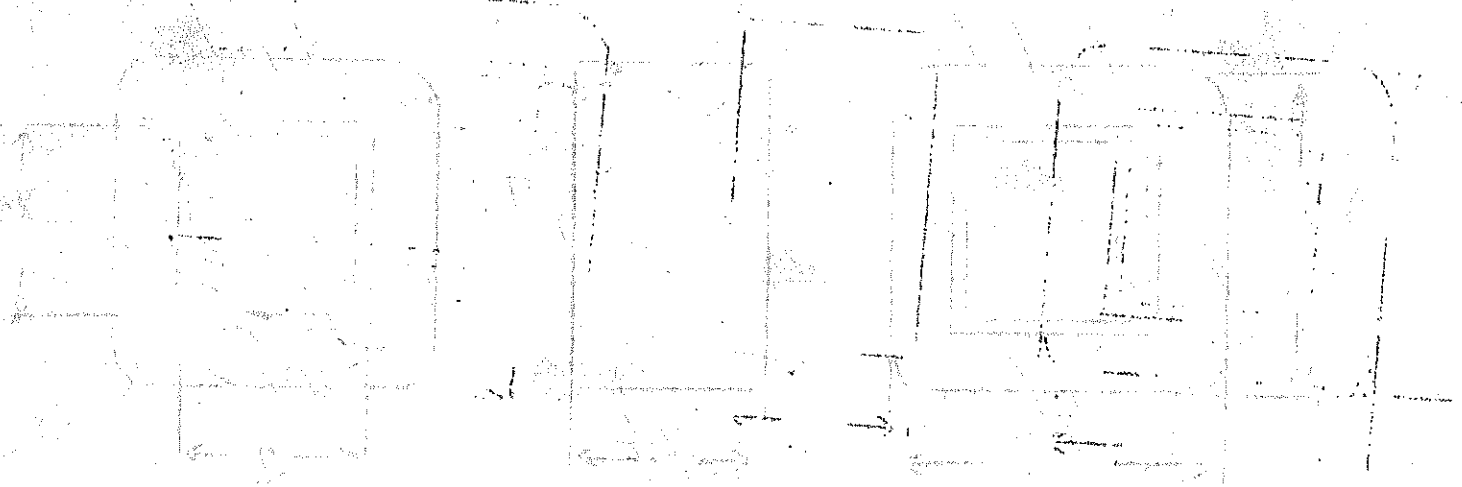
(over)

073 EA

- 0 — white
- 115 — Blue
- 170 — Red
- 115 — Black



make brackets as shown, drill for #10 screw



$E_p =$ 110-115-120-125
 White Black Yellow Green Brown

$\frac{N}{E} = 4.1$

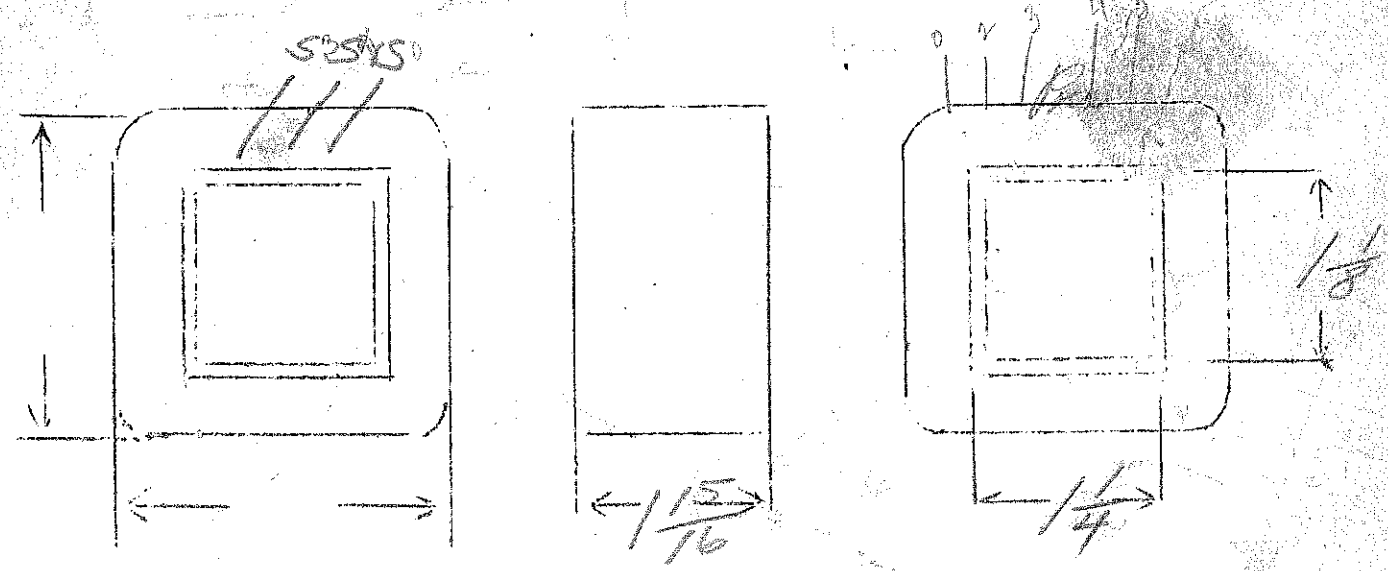
$E_s = 650V.C.T. - 150MA$

$E_{F1} = 6.3V - 3 \text{ amperes ct.}$

$E_{F2} = 2.5V - 3 \text{ amperes ct.}$

SPEC. NO. 1416

Winding	SEC	SHIELD	PR1	F1	F2		
Turns	2950	150	512 492	29	11		
Taps	1475	-	471 450	14	5		
Wind. Lgth.	1.75	1.75	1.75	-	-		
Wire Size	#30	#30	#23	#18	double #30		
T.P.L.	150-20	150-1	66				
Kind Term.	#20 1000	sil Br	#20 Pkw	WIRE ONLY			
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	30 #		40 #				
Wrapper	2L007VC	2L007VC	2L0056A	2L0056A	2L0056A		
TUBE	2L007			IMPREGNATION		VARNISH	
CURE	1 1/4 x 1/8						



Ep - 110-115-125

$\frac{N}{E} = 1.46$

Es = 2500V - tap 1250 - 750V - 300MA.

Ef = 5V - 20 amper

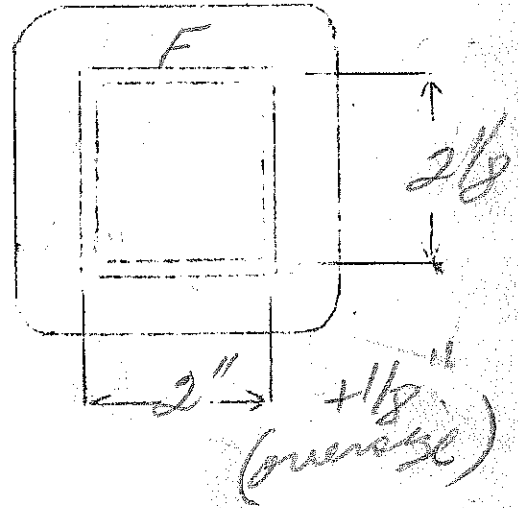
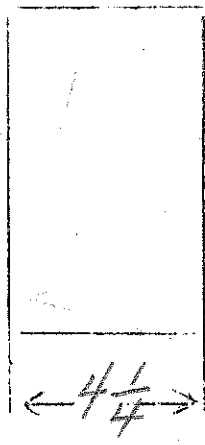
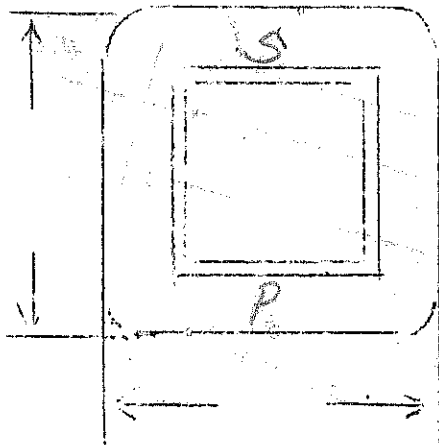
SPEC. NO.

1417

Winding	SEC	PRI	FIL			
Turns	4050	183	8			
Taps	2025 1220	170 162	—			
Wind. Lgth.	3 5/8	3 5/8	—			
Wire Size	#26	#11	double #12	—	Bar copper	
T.P.L.	204-20	33-6				
Kind Term.	WIRE ONLY					
Term. Lgth.	4"	4"	4"			
Layer Insul.	50#	—	—			
Wrapper	3L007VC 3L0056A	3L0056A	3L0056A 1L010RR			
TUBE	10L007 + 2L007VC		IMPREGNATION	VARNISH		
CURE	2" x 2 1/8"					

mark voltage on panel - use stud bolts

SEC - 110-115-125



$E_p = 115V$

$E_s = 1100V.C.T. - 300MA$

$E_{F1} = 5V - 3amps$

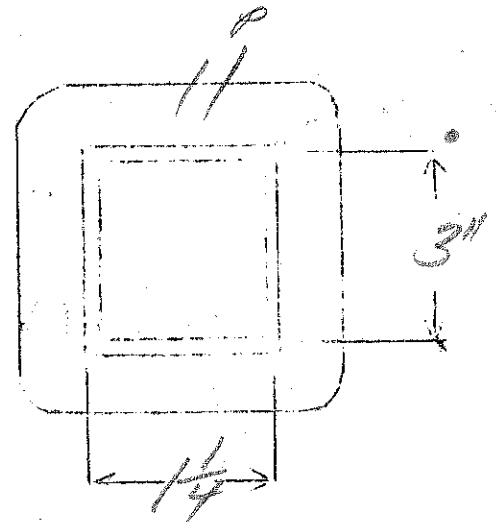
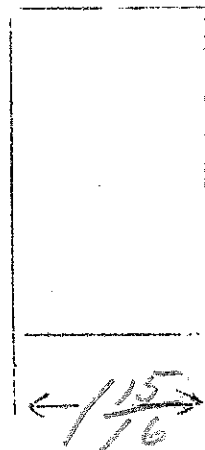
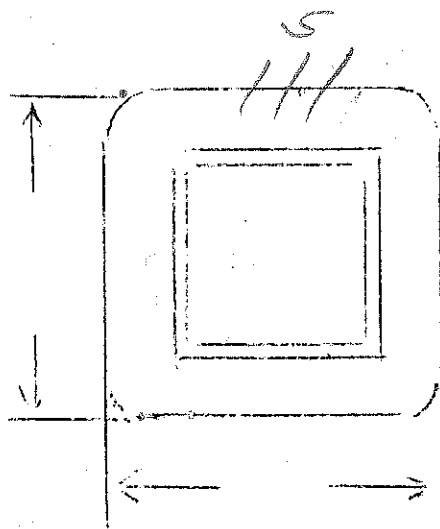
$E_{F2} = 6.3V - 3.6amps C.T.$

$E_{F3} = 6.3V - 2amps$

SPEC. NO.

1418

Winding	SEC	SHIELD	DR1	F1	F2	F3	
Turns	1750	110	Black 170	green 8	white 10	blue 10	
Taps	875	—	—	—	5	5	
Wind. Lgth.	1.75	1.75	1.75	—	—	—	
Wire Size	#27	#27	#18	#18	#20	#17	
T.P.L.	110-16 12/107-18	110	37-5	—	—	—	
Kind Term.	#20 PBrad	WIRE ONLY	—	—	—	—	→
Term. Lgth.	9	3	9	9	9	9	
Layer Insul.	30#	—	50#	—	—	—	
Wrapper	2L007VC	2L007GA	2L0076A	2L0076A	2L0075A	2L0076A	
TUBE	2L007H2007VC			IMPREGNATION		VARNISH	
CURE	1/4 X 3" NW 260 2X2						



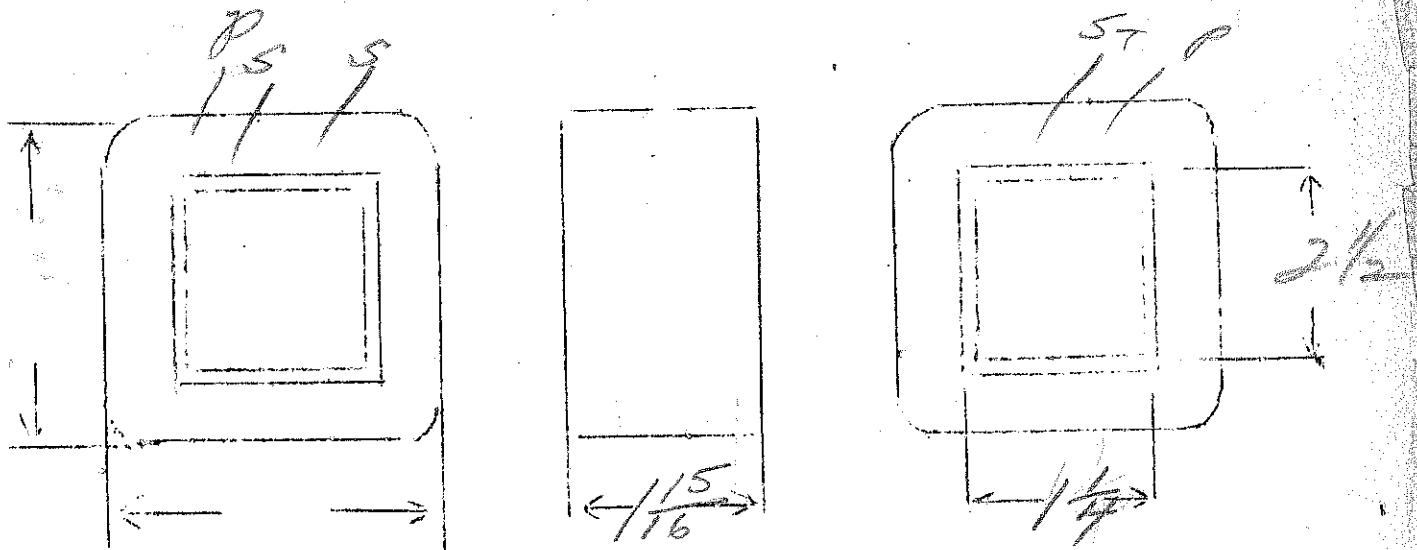
1140

$E_s = 900V$ CT - 300ma
5V - 3amps

$\frac{N}{E} = 183$

SPEC. NO. 1419

Winding	SEC	SHIELD	PRI	FI			
Turns	1830	103	210	10			
Taps	9/5	✓	-	-			
Wind. Lgth.	1.75	1.75	1.75				
Wire Size	#27	#27	#19	# double 21			
T.P.L.	103-12	103	43-5				
Kind Term.	#20	unilob	WIRE ONLY				
Term. Lgth.	9"	3"	9"	9"			
Layer Insul.	30#	-	50#	-			
Wrapper	2107VC	21076A	21076A	21075A			
TUBE	91007 + 12007VC			IMPREGNATION	VARNISH		
CURE	1 1/2 x 2 1/2						



275 ea side CT. under load 275 ma

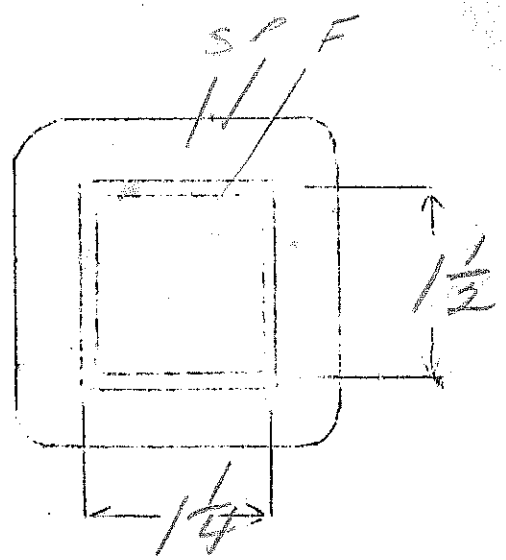
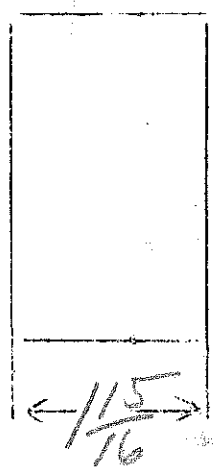
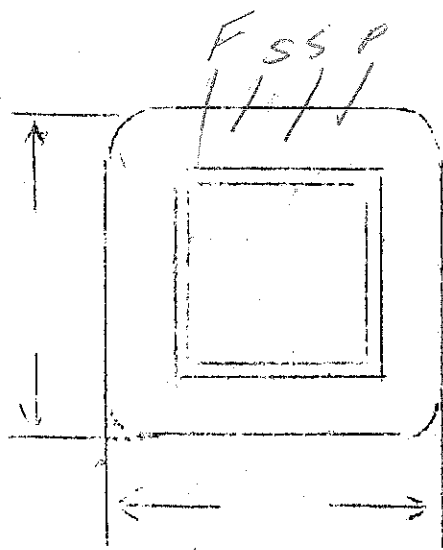
5V - 3 amps for 83

Ep - 115V

$$\frac{N}{E} = 316$$

SPEC. NO. 1420

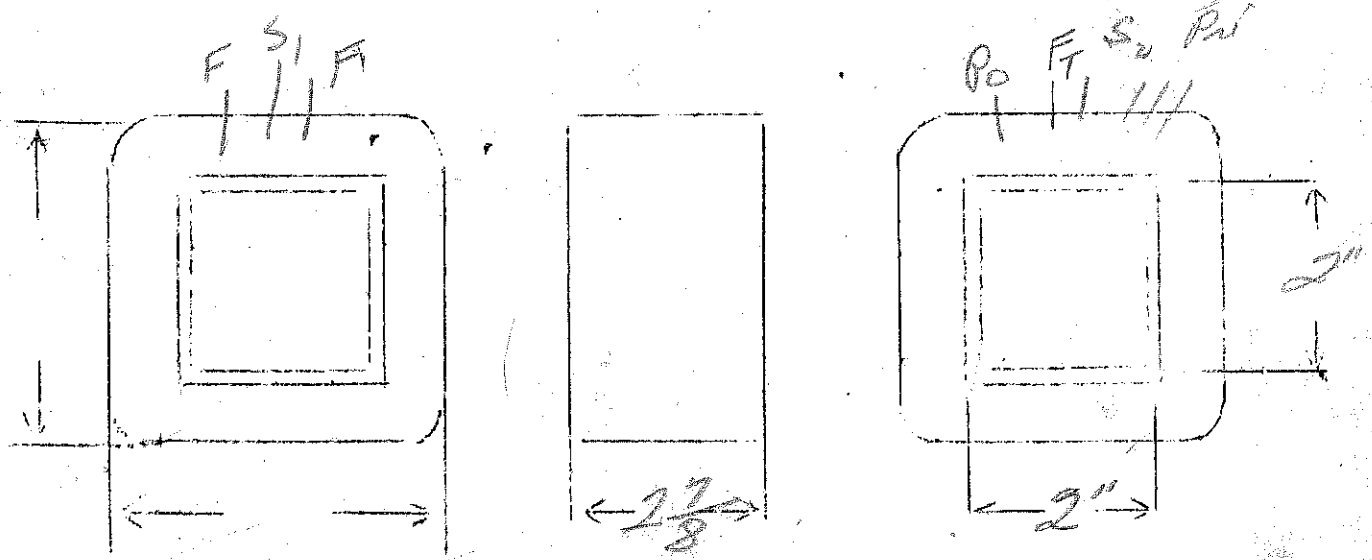
Winding	SEC	SHIELD	PR1	F1			
Turns	1950	110	365	17			
Taps	995	—	—				
Wind. Lgth.	1.75	1.75	1.75				
Wire Size	#27	#27	#21	#			
T.P.L.	110-18	110	53-7	double 20			
Kind Term.	#20 PBR	silver	#20 PBR	WO			
Term. Lgth.	9"	3"	9"	9"			
Layer Insul.	30#		150#				
Wrapper	16007VC	16007VC	260076A	260076A			
TUBE	76007				IMPREGNATION		VARNISH
CURE	1/4 x 1/2						



$E_p = 110-115-120-125$ $\frac{N}{E} = 155$
 $E_s = 1275 V - 300 ma$
 $E_{FIE} = 20V - 3.25 amps$

SPEC. NO. 1421

Winding	SEC	SHIELD	DRI	FIL		
Turns	2170	128	194 YELLOW 186 BLACK	34		
Taps	-	-	178 GREEN 171 RED	17		
Wind. Lgth.	$2\frac{3}{8}$	$2\frac{3}{8}$	$2\frac{3}{8}$			
Wire Size	#26	#26	#12	#17		
T.P.L.	128-17		8L			
Kind Term.	#20 0102	0102	#20 0102	W.O.	see sample	
Term. Lgth.	9"	4"	9"	3"		
Layer Insul.	50#	-	.005			
Wrapper	3L007VC	2L0056A	2L0056A	2L0056A		
TUBE	1L007 + 1L007VC			IMPREGNATION	VARNISH	
CURE	2" x 2"			cut 1 3/8 off E		



7580

$E_p = 110 - 125 V$

$E_s = 375 V$ ea side - 150 Ma

$\frac{N}{E} = 196$

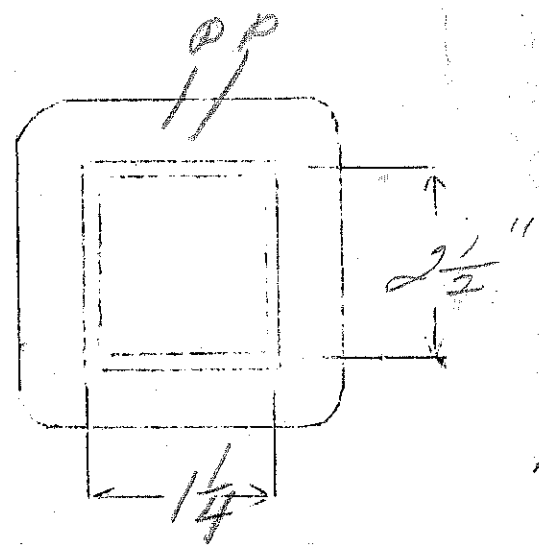
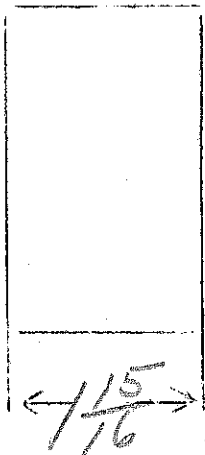
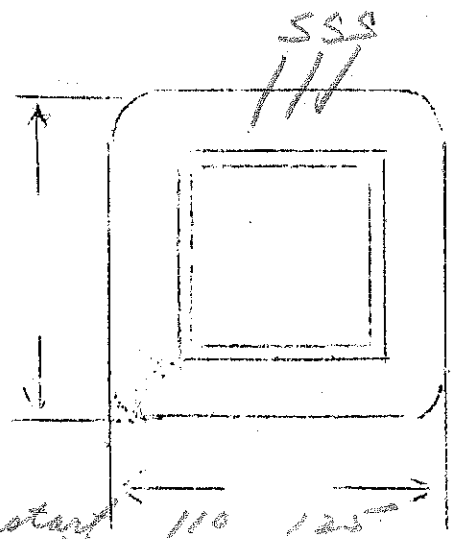
$E_{F_1} = 5V - 3Amps$

$E_{F_2} = 6.3V - 2amps CT$

SPEC. NO. 1422

$E_{F_3} = 6.3V - 4.4amp$

Winding	SEC	SHIELD	PRI	F ₁	F ₂	F ₃
Turns	1550	1	254	11	14	14
Taps	775		221	-	7	
Wind. Lgth.	1.75	copper	1.75	/	/	/
Wire Size	#29	shw stack	#19	#20 Double	#19	#15
T.P.L.	130-12	1	41-27	2nd layer	1st Layer	
Kind Term.	#20 Plead	silver	#20 Plead	WIFE ONLY		
Term. Lgth.	9"	3"	9"	9"	9"	9"
Layer Insul.	50#	-	Kraft			
Wrapper	2UM76A	2UM76A	2UM76A	2UM76A		2UM76A
TUBE	7L007			IMPREGNATION		VARNISH
CURE	1/4 x 2 1/2					



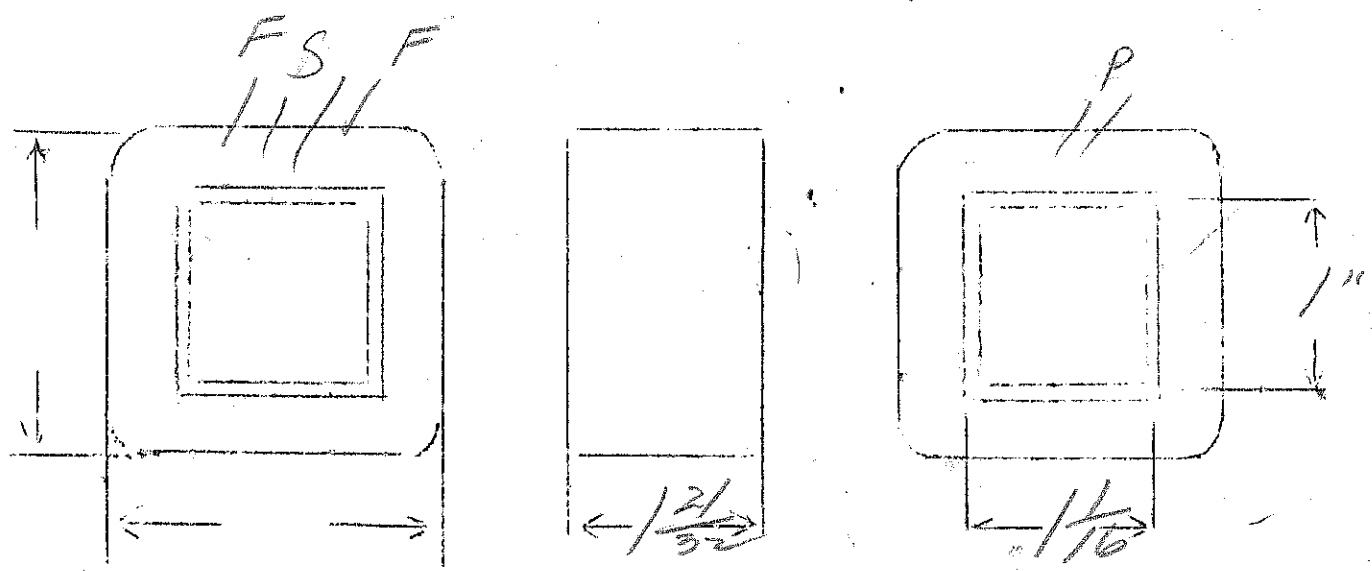
start 110 125
 Pri white yellow green
 sec - black - blue CT
 F₁ - yellow sewing
 F₂ - green sewing
 F₃ - ...

$E_p = 115V$
 $E_s = 700V - 20 ma$
 $E_f = 75V - 1.25 amps$

$\frac{N}{Z} = 5.45$
not automatic

SPEC. NO. 1423

Winding	PRI	SHIELD	SEC	F ₁			
Turns	625	63-1	4100	45			
Taps	-						
Wind. Lgth.	$\frac{15}{32}$	$\frac{15}{32}$	$\frac{15}{32}$				
Wire Size	#24	#24	#36	#21			
T.P.L.	63-10	63-1	230-18				
Kind Term.	#20 PBW	all PBW	#20 PBW	W.O.			
Term. Lgth.	9"	3"	9"	9"			
Layer Insul.	50#		30#				
Wrapper	11007VC	11007VC	21050A	21050A			
TUBE	7L007	IMPREGNATION		VARNISH			
CURE	1 1/4 x 1"						



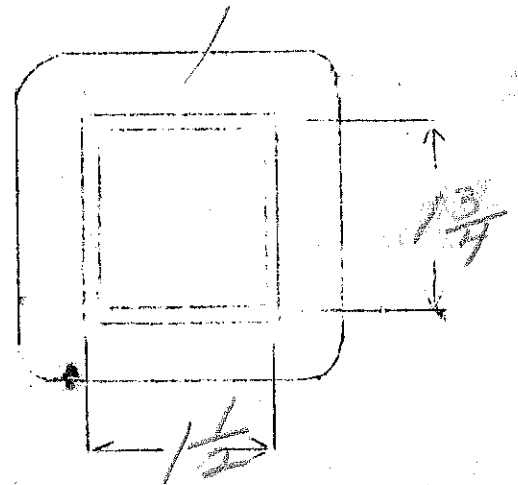
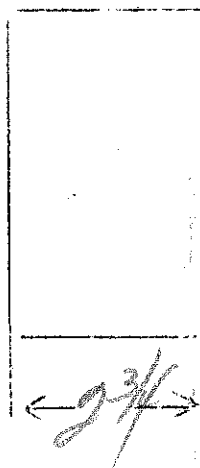
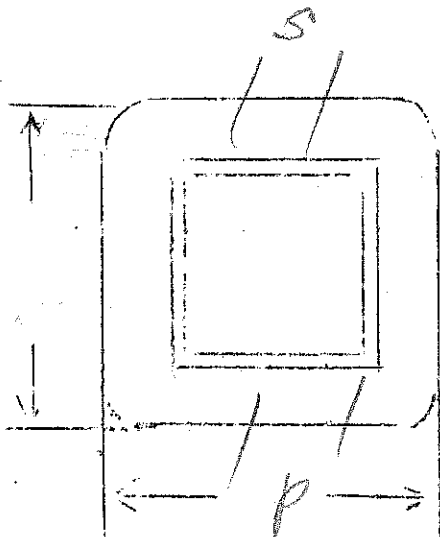
$E_p = 110V - 500N$
 $E_s = 2000VCT - 350Ma$

$\frac{N}{E} = 1.30$

SPEC. NO. _____

1424

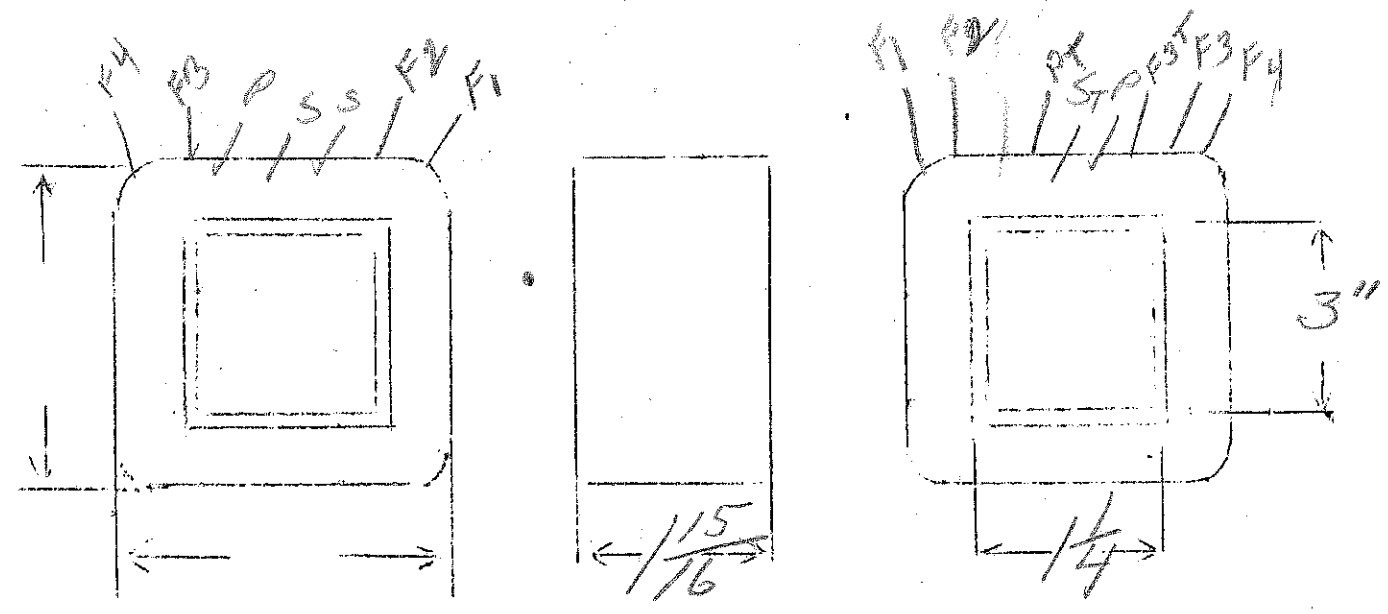
Winding	SEC	PRI					
Turns	2850	144					
Taps	1425						
Wind. Lgth.	2 3/8	2 3/8					
Wire Size	#26	#18					
T.P.L.	120-22	6L					
Kind Term.	WIRE ONLY						
Term. Lgth.	6"	6"					
Layer Insul.	56#	005					
Wrapper	3L007VC 2L0056A	2L0056A					
TUBE	10L007F 12L007VC		IMPREGNATION		VARNISH		
CURE	1 1/2 x 1 3/4						



$E_p = 115 - 125$
 $E_s = 150V \text{ CT} = 200Ma$
 $E_{F1} = 5V - 3 \text{ amps}$
 $E_{F2} = 2.5V - 8 \text{ amps}$
 $E_{F3} = 2.5V - 4 \text{ amps}$

SPEC. NO. 1426

Winding	SEC	SHIELD	PRI	F ₁	F ₂	F ₃	F ₄
Turns	1200	121	185	8	4	4	4
Taps	600	—	170	—	—	2	—
Wind. Lgth.	1.75	1.75	1.75				
Wire Size	#28	#28	#18	#18	#16	#16	double #16
T.P.L.	121-10	121-1	—	—	—	—	—
Kind Term.	WIRE ONLY						
Term. Lgth.	3"	3"	3"	3"	3"	3"	3"
Layer Insul.	50#		Kraft				
Wrapper	9007VC	90070A	90070A				
TUBE	9L007			IMPREGNATION		VARNISH	
CURE	1/4 x 3"						



$E_p = 110-125$

$\frac{N}{E} = 2.08$

$E_s = 750 \text{ V.C.T.} - 150 \text{ MA}$

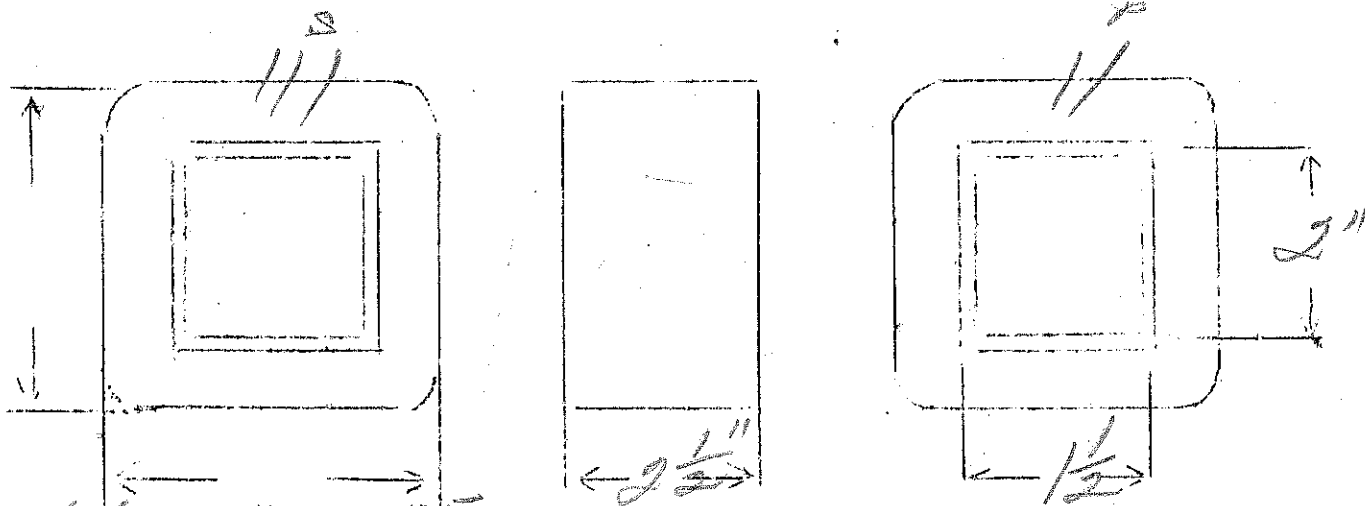
$E_{F1} = 5V - 3 \text{ amps}$

$E_{F2} = 6.3V - 2 \text{ amps}$

$E_{F3} = 6.3V - 4.4 \text{ amps}$

SPEC. NO. 1427

Winding	SEC	SHIELD	PR1	F1	F2	F3
Turns	1550	1	260	11	14	14
Taps	775	-	240		7	
Wind. Lgth.	23	2 1/4	-	-	-	-
Wire Size	#28	Copper	#18	#17	#18	#14
T.P.L.	140-12	shin. stock	7L			
Kind Term.	#20 PBraw	sil Braid	#20 PBraid	WIRE ONLY		
Term. Lgth.	10"	3"	10"	10"	10"	10"
Layer Insul.	50#		Kraft			
Wrapper	12007V	210056A	12007VC	12007VC	210056A	210056A
TUBE	81007			IMPREGNATION		VARNISH
CURE	1 1/2 x 2"					



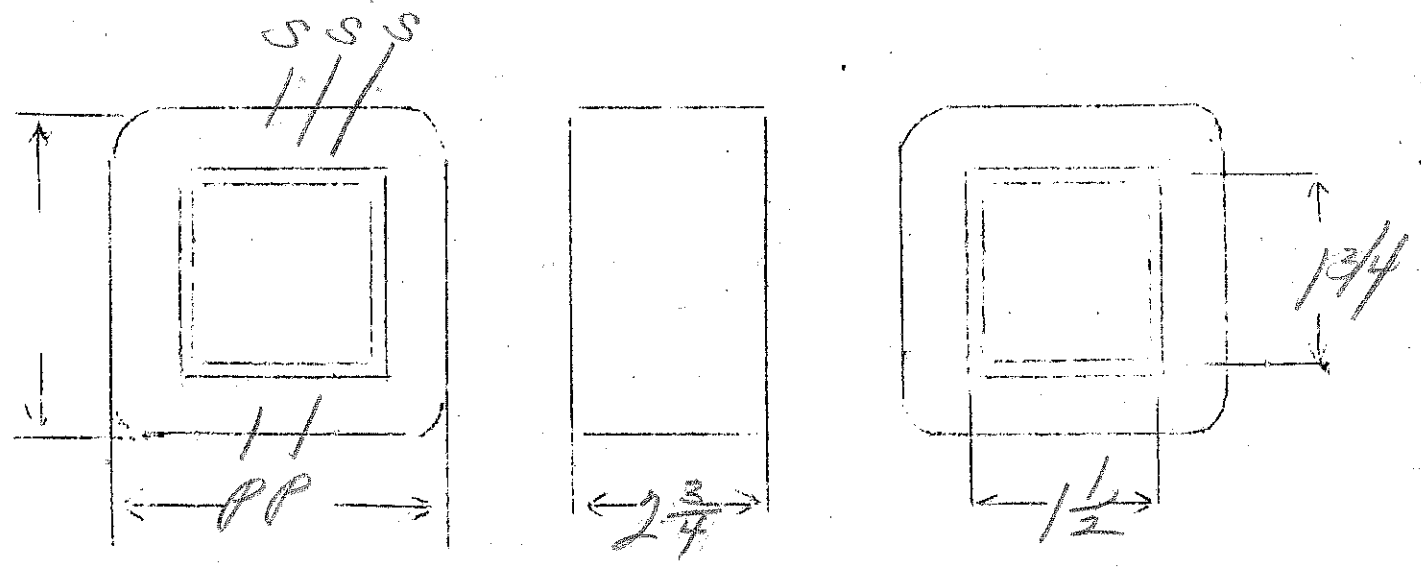
pri - start 110 125
 white yellow green
 sec - black - blue et.
 F1 - yellow sleeving
 F2 - green sleeving
 F3 - black sleeving

$E_p = 115V$
 $E_s = 1500VCT - 300 ma - 225 VA output$

$\frac{N}{E} = 213$

SPEC. NO. 1428

Winding	SEC	PRI				
Turns	3440	265				
Taps	1890	—				
Wind. Lgth.	2 3/8	2 1/4				
Wire Size	#26	#18				
T.P.L.	125-30	6L				
Kind Term.	WIRE ONLY					
Term. Lgth.	6"	6"				
Layer Insul.	50#	605				
Wrapper	210076A	210076A				
TUBE	91007+1007VC		IMPREGNATION	YARNISH		
CURE	1 1/2 x 1 3/4					



1/18/82

2. WINDING Ep - 115 V.

E_F - 5.5 V - 12.5 amperes

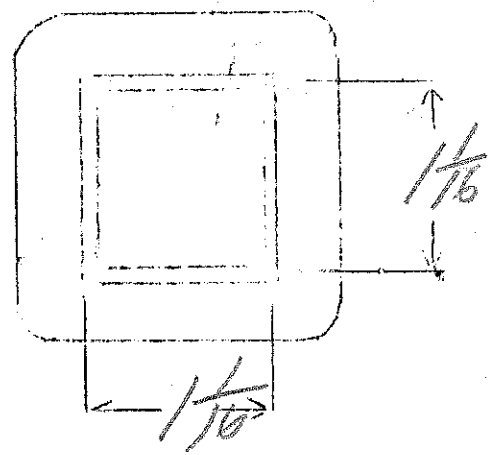
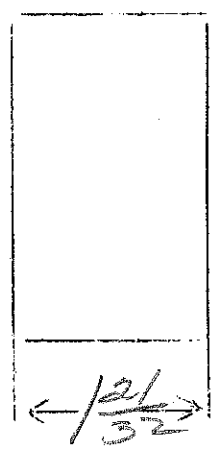
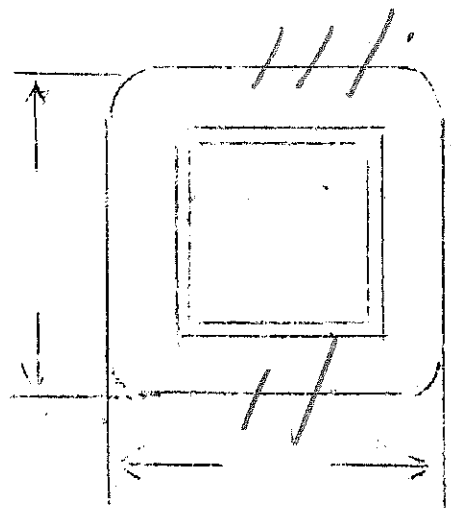
2500 V Ins

-69VA

$\frac{V}{E} = 5.05$

SPEC. NO. 1429

Winding	PR1	FIL				
Turns	580	30				
Taps	—	15				
Wind. Lgth.	1/32					
Wire Size	#23	#11				
T.P.L.	53-11	2L.				
Kind Term.	WIRE ONLY					
Term. Lgth.	6 1/2	6"				
Layer Insul.	50#	1005				
Wrapper	20056A	20056A				
TUBE	4L007		IMPREGNATION	VARNISH		
CURE	1/16 x 1/16					



St. Michael

$E_p - 115V.$

$E_f - 5.5V - 22.5amps$

$\frac{N}{E} = 3.38$

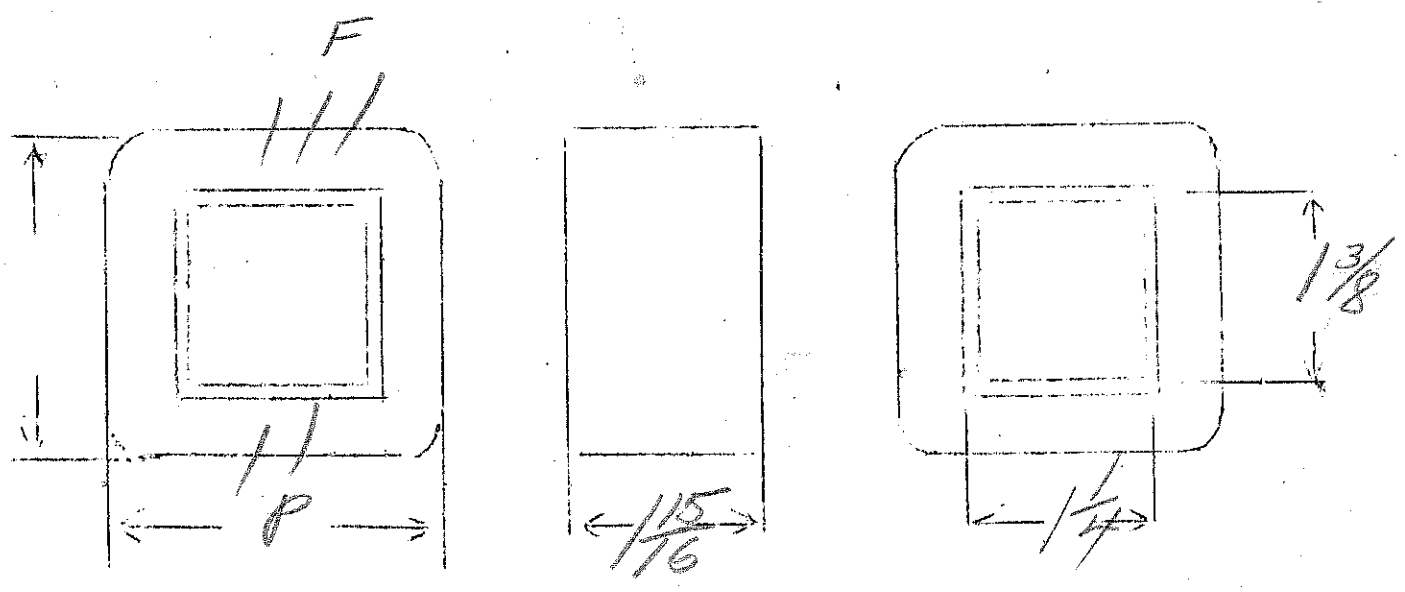
2500V. Ins.

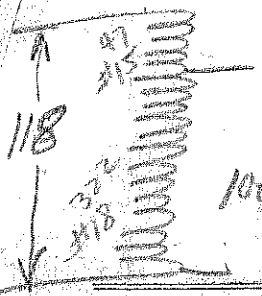
125VA

SPEC. NO.

1430

Winding	PR1	FIL					
Turns	388	20					
Taps	—	10					
Wind. Lgth.	1.75	1.75					
Wire Size	#20	double #11					
T.P.L.	49-7	3 layers					
Kind Term.	WIPE	ONLY					
Term. Lgth.	6"	6"					
Layer Insul.	50M						
Wrapper	20076A	2L0075A					
TUBE	7007			IMPREGNATION			VARNISH
CURE	1/4 x 13/8						





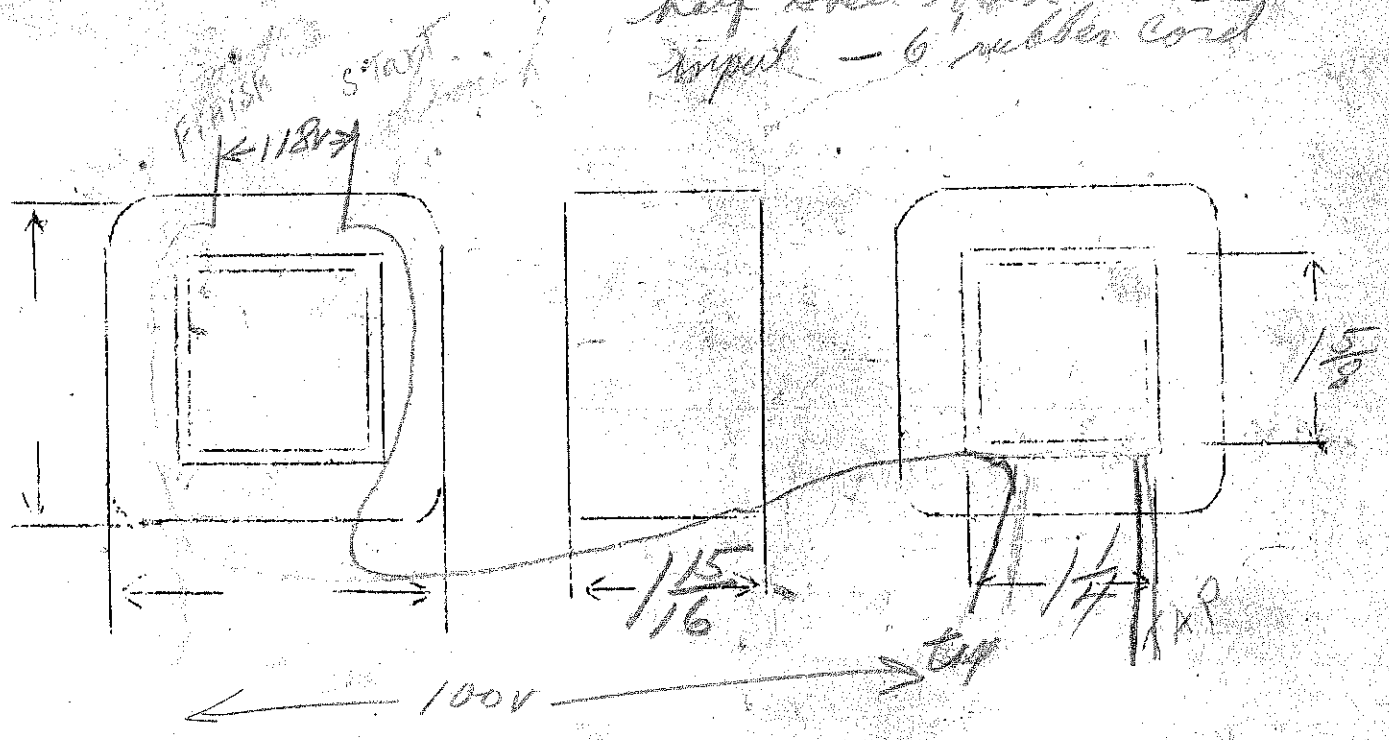
$$\frac{N}{I} = 31$$

100V. - 3.25 amps

SPEC. NO. 1431

Winding	Continuous					
Turns	322	47				
Taps	—	—				
Wind. Lgth.	1.75	1.75				
Wire Size	#18	#15				
T. P. L.	9L	2L				
Kind Term.	WIPE ONLY					
Term. Lgth.	4"	4"				
Layer Insul.	Kraft					
Wrapper	2005 BA					
TUBE	96007		IMPREGNATION	VARNISH		
CURE	1/4 X 1 5/8					

half shell both sides - input - 6' rubber cord



Panel at single winding

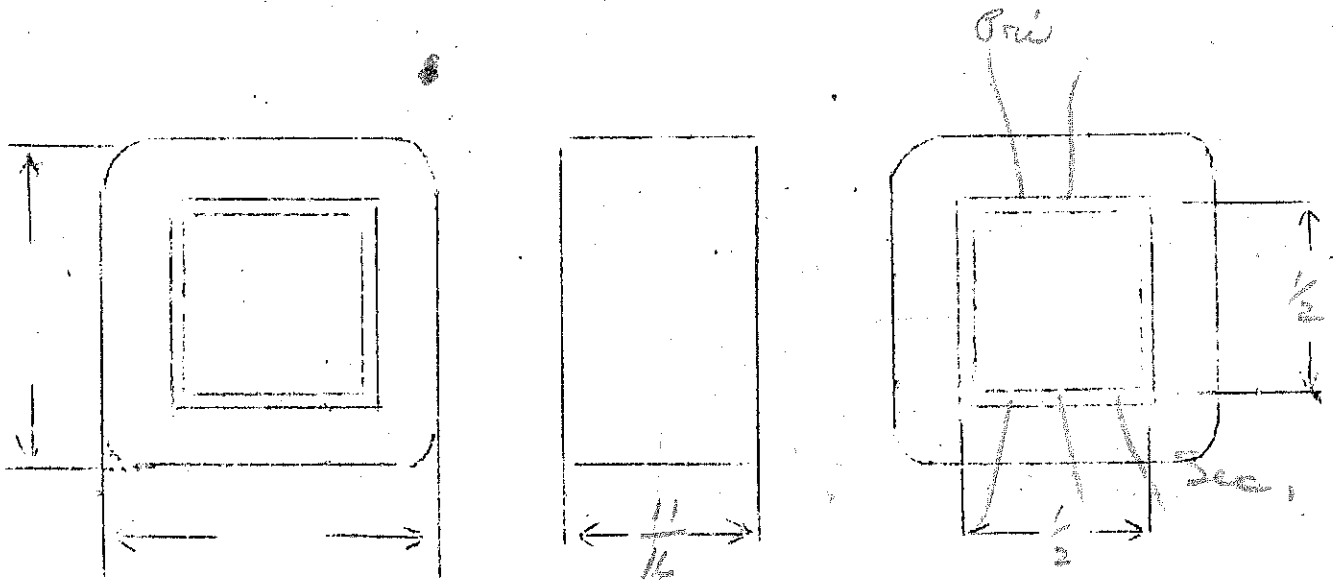
2.5 Y pri

$$\frac{N}{E} = 20$$

6.3 V C.T. sec. @ 650 ma.

SPEC. NO. 1432

Winding	PR1	SEC	SHIELD				
Turns	50	138					
Taps	—	69					
Wind. Lgth.							
Wire Size	*22	*26	*26				
T.P.L.							
Kind Term.	LUG	LUG					
Term. Lgth.	3"	3"					
Layer Insul.	30*	30*					
Wrapper	120056A						
TUBE	4L007		IMPREGNATION		VARNISH		
CURE	$\frac{1}{2} \times \frac{1}{2} - 2 \times 2$						

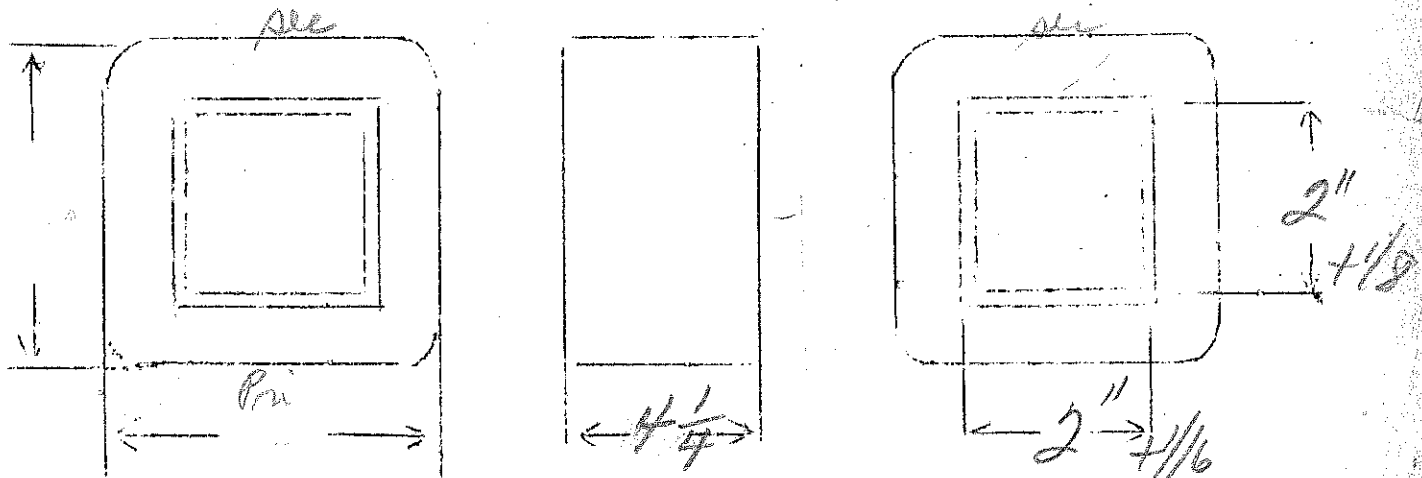


same as 412 except
 $E_p = 115 - 230$

$$\frac{N}{E} = 153$$

SPEC. NO. 1433

Winding	SEC	P#1	P#2			
Turns	6000 5000 3000	175	175			
Taps	1000 0	—	—			
Wind. Lgth.	3 5/8	3 5/8				
Wire Size	26	17	17			
T.P.L.	20-30	3L	3L			
Kind Term.	WIRE ONLY					
Term. Lgth.	6"	6"	6"			
Layer Insul.	60#	0056A1				
Wrapper	2100VC 210056A	210056A				
TUBE	101007 + 2100VC		IMPREGNATION	YARNISH		
CURE	2x2					



$E_p = 115V$

$E_s = 200V. CT. - 80MA$

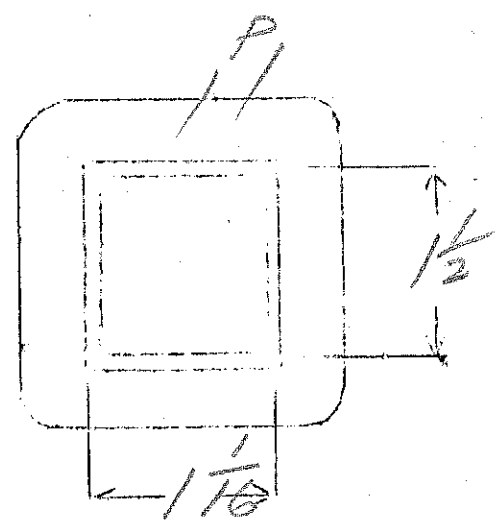
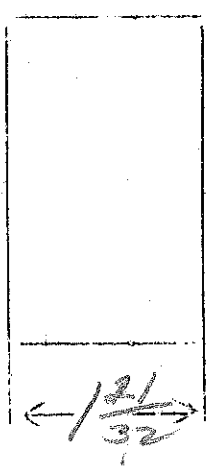
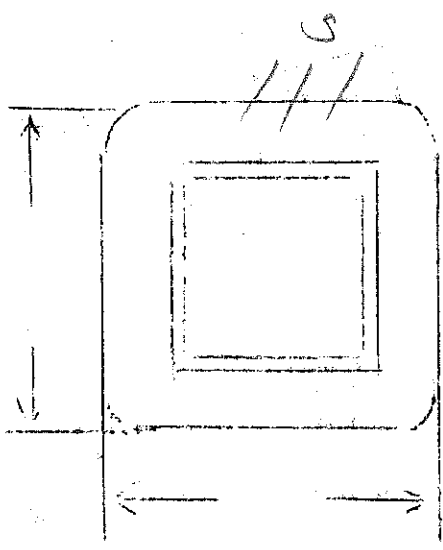
$E_{F1} = 5V - 3A CT$

$E_{F2} = 6.3V - 45A. CT$

$\frac{N}{E} = 3.6$

SPEC. NO. 1434

Winding	SEC	SHIELD	PRI	F ₁	F ₂		
Turns	2780	53	412	20	25		
Taps	1390			10	12		
Wind. Lgth.	$\frac{15}{32}$	$\frac{15}{32}$	$\frac{15}{32}$	-	-	-	
Wire Size	#34	#23	#23	#18	#16		
T.P.L.	180-16	53-1	53-8				
Kind Term.	sil br	WIRE	ONLY				
Term. Lgth.	3"	3"	3"	3"	3"		
Layer Insul.	30#		50#				
Wrapper	1L007VC	1L007VC	2L005GA	1L005GA	2L005GA		
TUBE	7L007	IMPREGNATION			VARNISH		
CURE	$\frac{1}{16} \times \frac{1}{2}$						

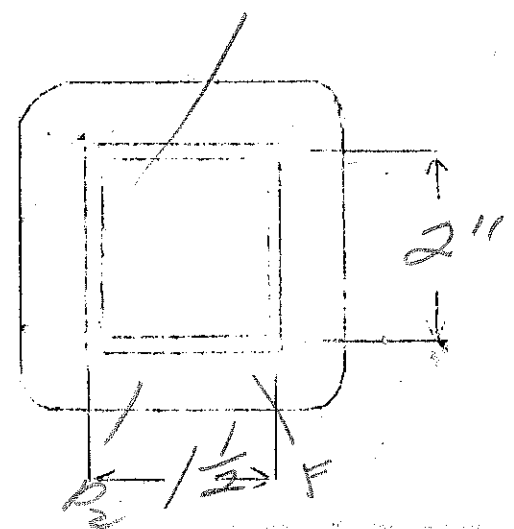
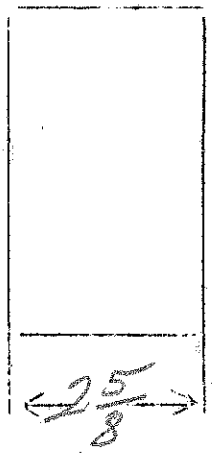
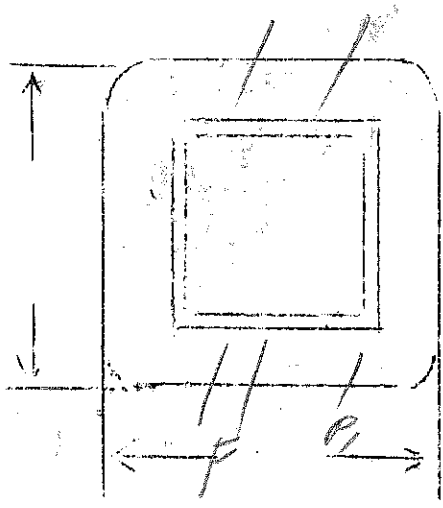


$E_p - 115V$
 $E_s - 1100 V.C.T. - 400MA$
 $E_{F_1} - 7.5V - 10 AMPS C.T.$

$\frac{N}{E} = 1.93$

SPEC. NO. 1435

Winding	SEC	SHIELD	PR1	F1			
Turns	2350	132	222	16			
Taps	1175	-	-	8			
Wind. Lgth.	2 $\frac{3}{8}$	2 $\frac{3}{8}$	2 $\frac{3}{8}$				
Wire Size	#26	#26	#17	double #15			
T.P.L.	132-18	1	45-5	14			
Kind Term.	WIRE		WIRE ONLY				
Term. Lgth.	6"	3"	6"	6"			
Layer Insul.	50#						
Wrapper	1L007VC 2L0056A	2L0056A	1L007VC 2L0056A	1L007VC 2L0056A			
TUBE	9L007 + 1L007VC			IMPREGNATION	VARNISH		
CURE	1 $\frac{1}{2}$ x 2						



$E_p = 115V$

$\frac{N}{E} = 29$

$E_s = 750VCT - 150ma$

$E_{F1} = 6.3VCT - 4.5A$

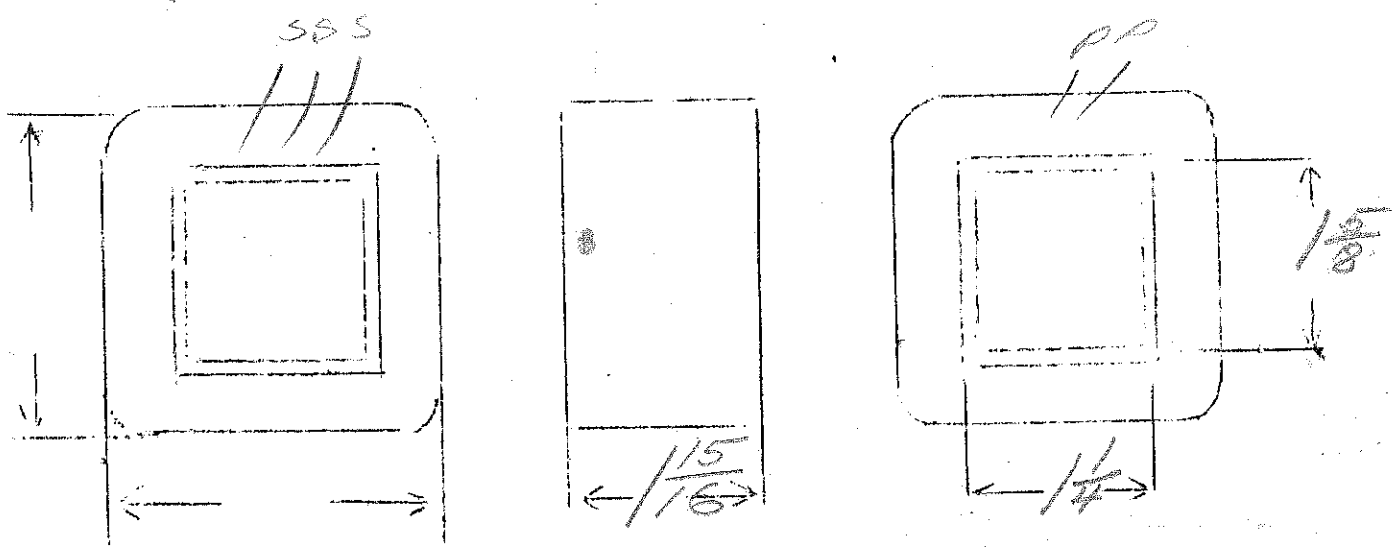
$E_{F2} = 5V - 3amps$

$E_{F3} = 2.5V - 3amps$

SPEC. NO. 1436

Winding	SEC	SHIELD	PRI	F	F	F
Turns	2400		334.	16	20	8
Taps	1200	-	-			4
Wind. Lgth.	1.75	1.75	1.75	-	-	-
Wire Size	#31	#31	#20	#18	#16	#18
T.P.L.	152-16	152	48-7	-	-	-
Kind Term.	sil Br	sil Br	WIRE ONLY	-	-	-
Term. Lgth.	3	3	3	3	3	3
Layer Insul.	30#	-	50#	-	-	-
Wrapper	2L007VC	2L007VC	2L0076A	2L0076A	2L0076A	2L0076A
TUBE	2L007-HL007VC			IMPREGNATION		VARNISH
CURE	$1\frac{1}{4} \times 1\frac{5}{8}$					

mark panel



4/14
1828

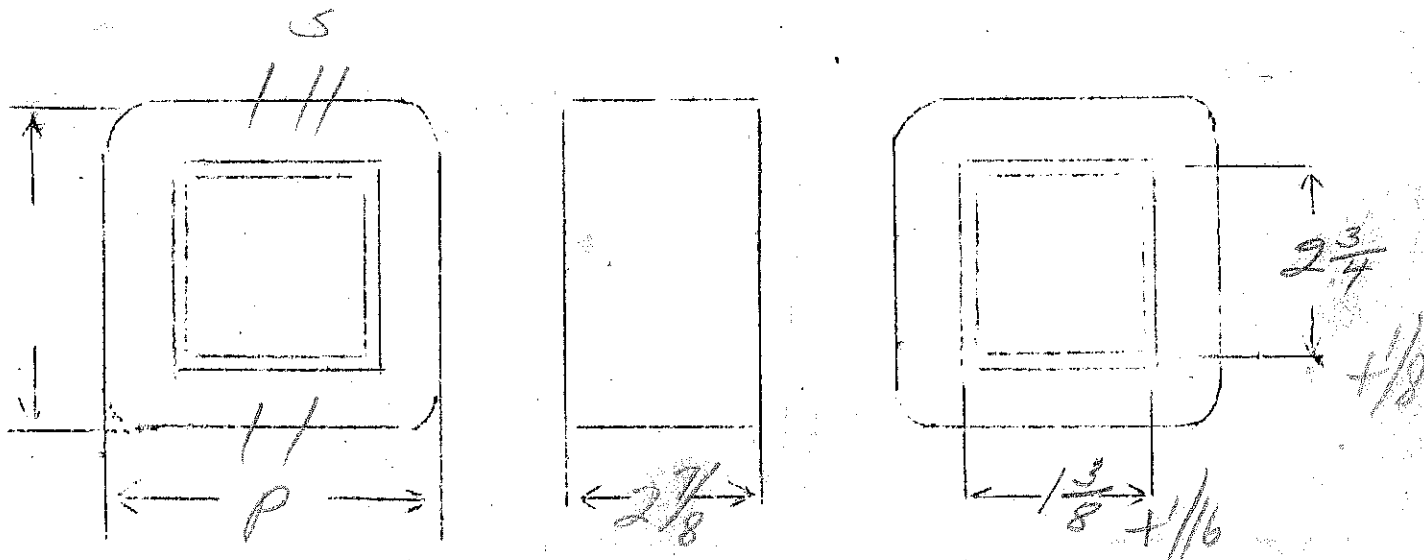
$$E_p = 115V -$$

$$\frac{N}{E} = 16$$

$E_s = 2350 \text{ V.C.T.} - 375 \text{ Ma} \quad \text{---} \quad 440 \text{ watts}$

SPEC. NO. 1437

Winding	SEC	PRI					
Turns	4170	185					
Taps	2085						
Wind. Lgth.	2 1/2	2 3/8					
Wire Size	#26	#15					
T.P.L.	131-32	38-5L					
Kind Term.	WIRE ONLY						
Term. Lgth.	6"	6"					
Layer Insul.	50#						
Wrapper	21007VC 210056A	210050A					
TUBE	10L007 + 14007VC		IMPREGNATION		VARNISH		
CURE	1 3/8 x 2 3/4						



8V
90
35

Ep - 110 - 115

$\frac{N}{E} = 29$

Es = 4000 V.C.T. - 25 MA - 10,000 V breakdown

VA = 50

SPEC. NO.

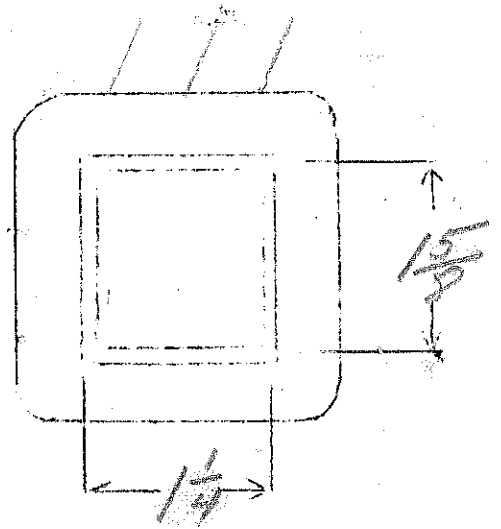
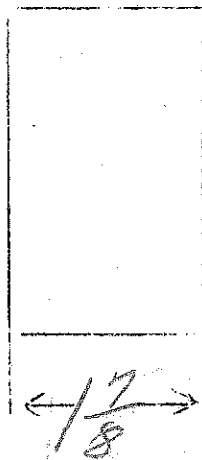
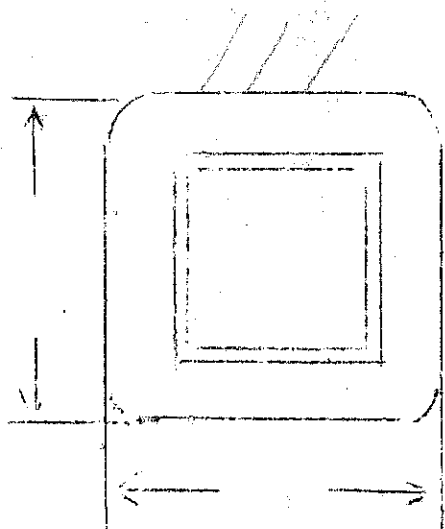
1438

Winding	PRI	SHIELD	SEC			
Turns	333	65	12,800			
Taps	319		6,400			
Wind. Lgth.	$1\frac{13}{16}$	$1\frac{13}{16}$	1.5			
Wire Size	#23	#23	#37			
T.P.L.	54-7	65	305-42			
Kind Term.	WIRE ONLY		sil terminal			
Term. Lgth.	4"	4"	4"			
Layer Insul.	50 #		double 20 #			
Wrapper	1L007VC	3L007VC 2L0076A	3L007VC 2L0076A			
TUBE	7L007	IMPREGNATION		VARNISH		
CURE	$1\frac{1}{4} \times 1\frac{5}{8}$					

Note: spiral leads to get them in position specified.

Sec.

Pri



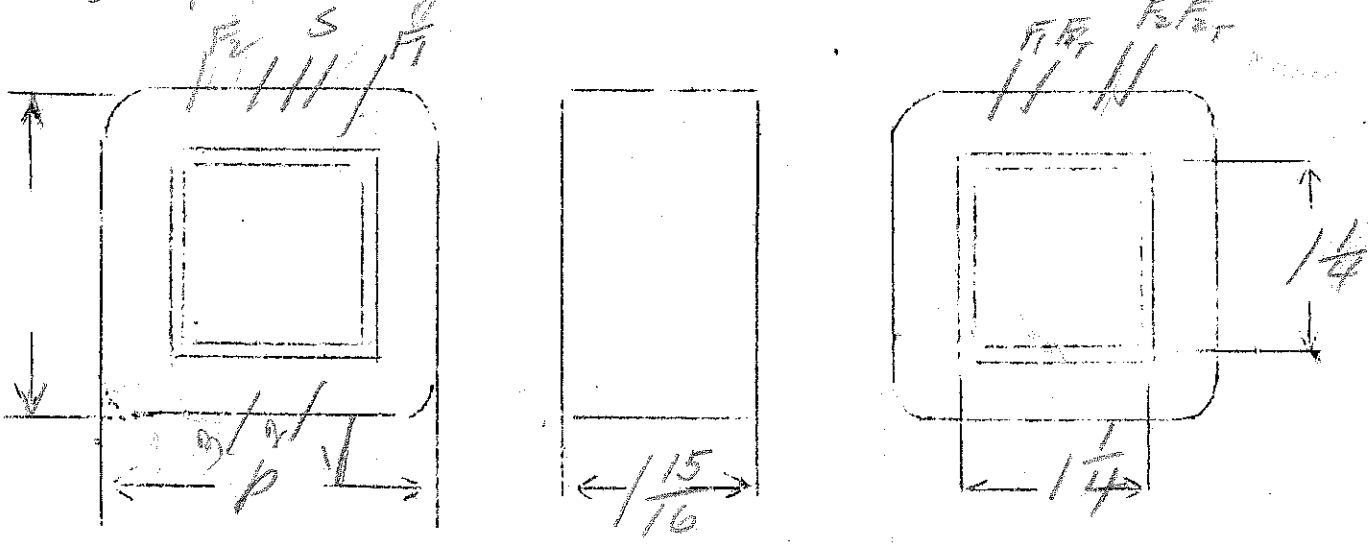
$E_p = 110 - 115$
 $E_s = 700 \text{ V.C.T.} - 60 \text{ MA}$
 $E_{F_1} = 7.5 \text{ V.C.T.} - 3 \text{ Amp}$
 $E_{F_2} = 5 \text{ V.C.T.} - 3 \text{ Amp}$

$P_{in} - 10,000 \text{ V breakdown}$
 $\frac{V}{I} = 3.8$

SPEC. NO. 1439

Winding	SEC	F ₁	F ₂	PR1			
Turns	2900	31	21	437			
Taps	1450	15	10	418			
Wind. Lgth.	1.75			1 $\frac{3}{8}$			
Wire Size	#34	double 21	double 21	#23			
T.P.L.	242-12	2 layers		8L			
Kind Term.	pillar	WIRE ONLY					
Term. Lgth.	3	3	3	3			
Layer Insul.	30 #			50 #			
Wrapper	2L0076A	2L0076A	3L0077G 2L0096A	3L0077G 3L0076A			
TUBE	7L007	IMPREGNATION		VARNISH			
CURE	1 $\frac{1}{4}$ x 1 $\frac{1}{4}$						

keep primary well in - 10000V and



EP-105-110-115

JOHN C. SERVA

1500VA


Es - 3300 or 2200V each side CT - 3.50 ma

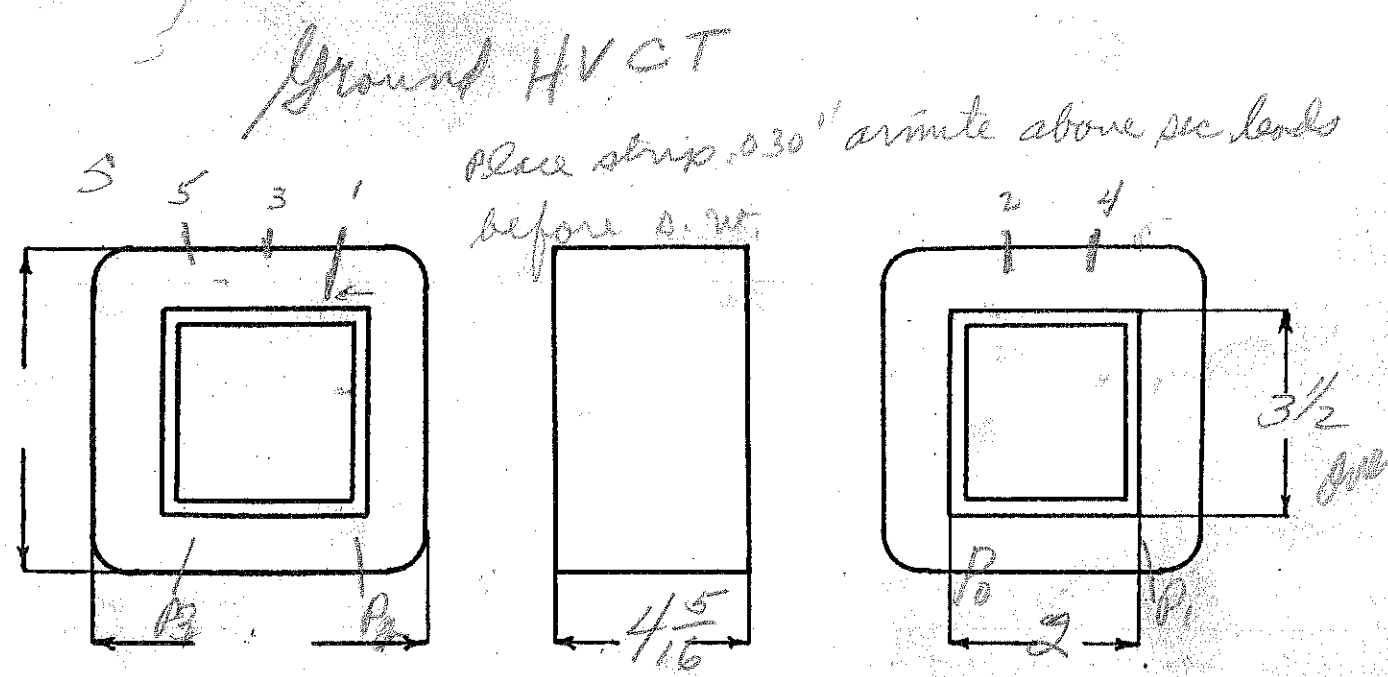
SPEC. NO. 1440 - Rev. 1

Winding	SEC			PRI			
Turns	6300			107-			
Taps	875-3150-5425			102-98			
Wind. Lgth.	3 1/4						
Wire Size	#26			#11			
T. P. L.	175-36			3L - tight winding			
Finish	W.O.						
Type Lead							
Lead Lgth.	6"			6"			
Layer Insul.	double 40#			007K			
Test Volt.	8500 before ground CT						
interleave Wrapper	61007VC 61005GA			41005GA			

TUBE	101007 + 21007VC	IMPREGNATION	Varnish
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CORE	GA.	GRADE	STACK
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MOUNTING 



DESIGNED BY *gsw*

DATE 9/9/38

$E_p = 115V$

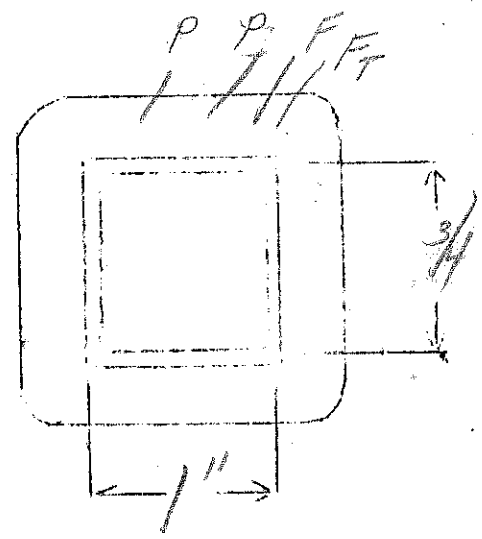
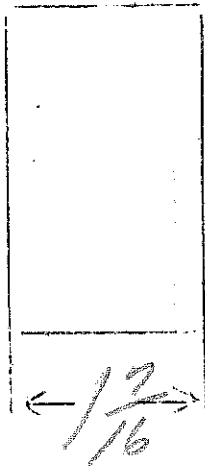
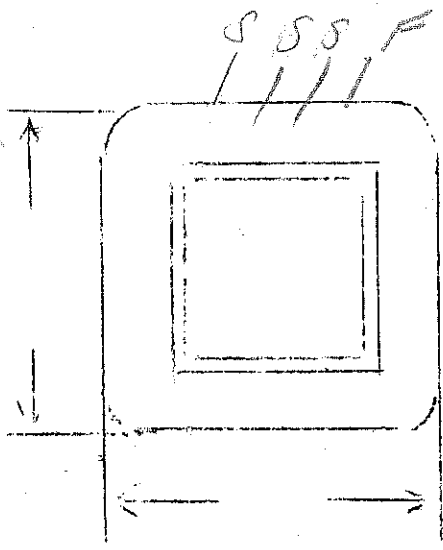
$E_s = 500VCT - 50mA$

$E_f = 60VCT - 1/2 amp$

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

SPEC. NO. 1441

Winding	PRI	SHIELD	SEC	FIL			
Turns	808	81	3850	49			
Taps	—	—	1925	25			
Wind. Lgth.	1.25	1.25	1.25	—			
Wire Size	#28	#28	#35	#23			
T.P.L.	81-10	81-1	143-20				
Kind Term.	Sil Br		Sil Br				
Term. Lgth.	3"	3"	3"	3"			
Layer Insul.	30#		20#				
Wrapper	1L007VC	1L007VC	2L0056A	2L0056A			
TUBE	4L007				IMPREGNATION		VARNISH
CURE	1 X 3/4 NW						

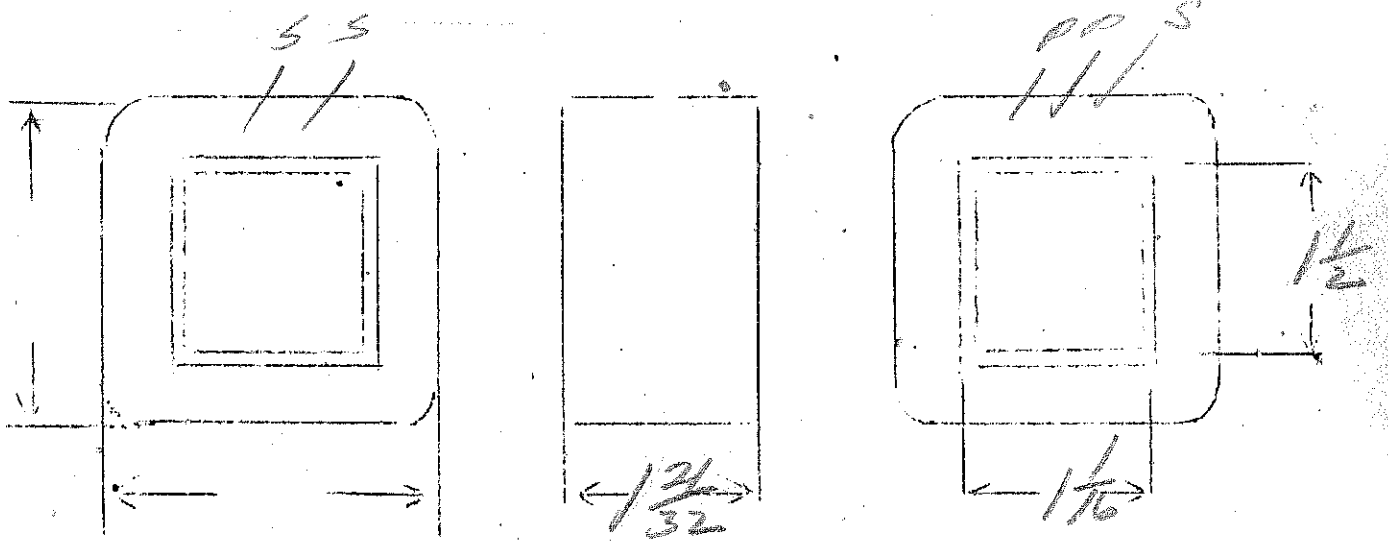


$E_p = 115V$
 $E_s = 800VCT - 100mA$
 $E_{F1} = 5V - 2amp$
 $E_{F2} = 2.5V - CT - 3amps$
 $E_{F3} = 2.5V - 2amps$
 $E_{F4} = 15V - 4amps$

$\frac{N}{E} = 3.62$
 E.J. ROSE

SPEC. NO. 1442

Winding	PRI	SHIELD	SEC	green F1	black F2	white F3	dark F4
Turns	416	175	3140	20	10	10	6
Taps	-	-	1570	-	5	-	3
Wind. Lgth.	$1\frac{15}{32}$	$1\frac{15}{32}$	$1\frac{15}{32}$	-	-	-	-
Wire Size	23	33	33	#20	#18	#20	#17
T.P.L.	53-8		175-18				
Kind Term.	#20 P/W	al Br	#20 P/W	WIRE ONLY			
Term. Lgth.	9	3	9	9	9	9	9
Layer Insul.	40	-	30#	-	-	-	-
Wrapper	1007VC	1007VC	20076A				20076A
TUBE	72007			IMPREGNATION		VARNISH	
CURE	170 x 1 1/2						

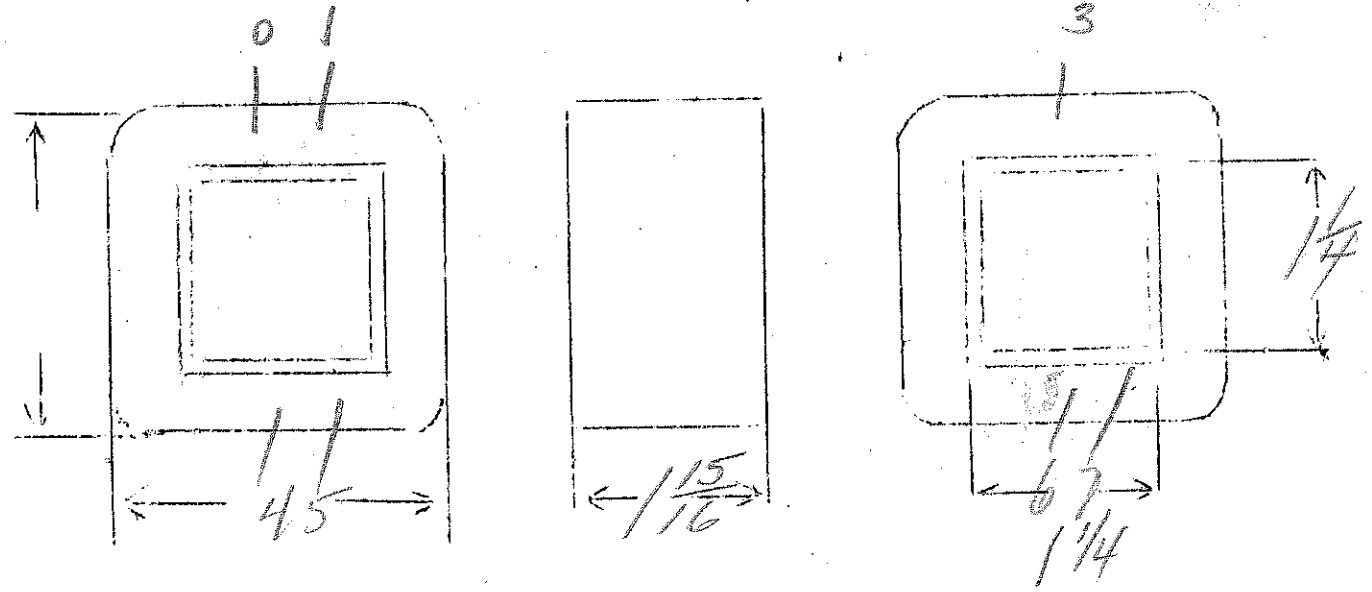


auto transformer
 90-95-100-105-110-115

$$\frac{N}{E} = 4$$

SPEC. NO. 1443

Winding	continuous					
Turns	360	110				
Taps	-	8-8-6-6-4-4-2-2				
Wind. Lgth.	1.75					
Wire Size	#20	#15				
T.P.L.	47-8	28-4				
Kind Term.	WIPE ONLY					
Term. Lgth.	4"	4"				
Layer Insul.	kraft					
Wrapper	210076A					
TUBE	7L007		IMPREGNATION	VARNISH		
CURE	1/4" x 1/4"					



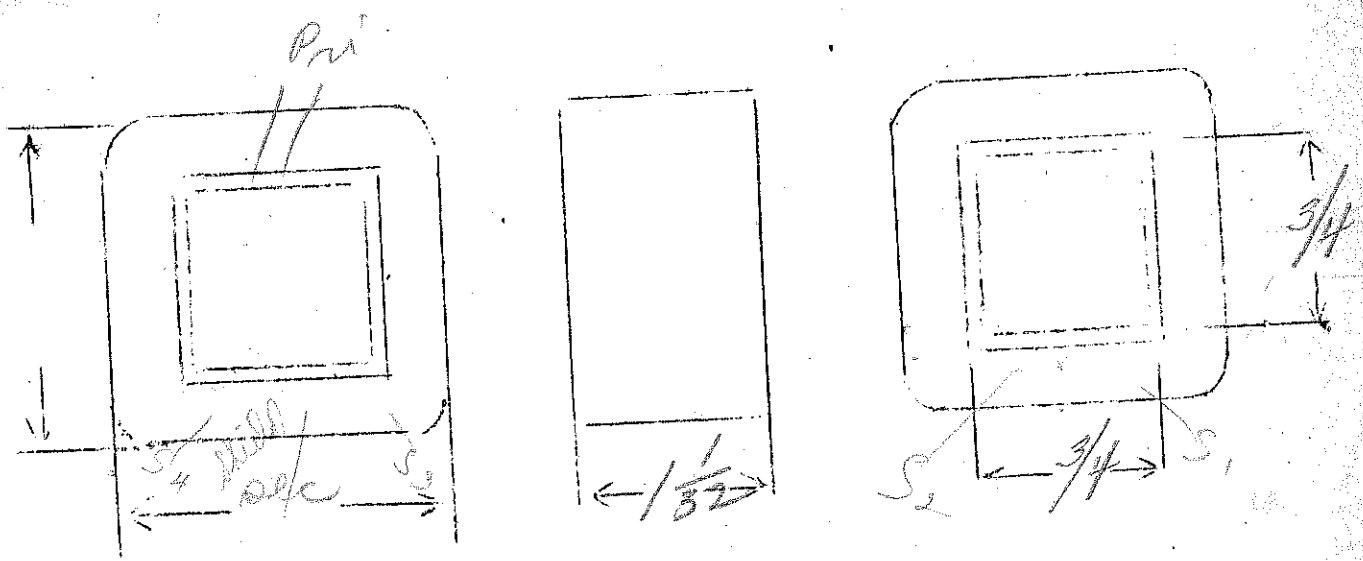
Ep-117V

$\frac{N}{E} = 113$

E₃ - 22.5V - 4.5V - 9.5V - 25Ma.

SPEC. NO. 1444

Winding	PRI	SHIELD	SEC				
Turns	1320	95	274	#	1146		
Taps	—	—	115	—55			
Wind. Lgth.	7/8	7/8	7/8				
Wire Size	#32	#32	#35		#36		
T.P.L.	95-14	95	single wind				
Kind Term.	sil	Bund					
Term. Lgth.	3	3	3				
Layer Insul.	30#		30#				
Wrapper	1100VC	1100VC					
TUBE	76007			IMPREGNATION		VARNISH	
CURE	3/4 x 3/4	2 x 2	290				



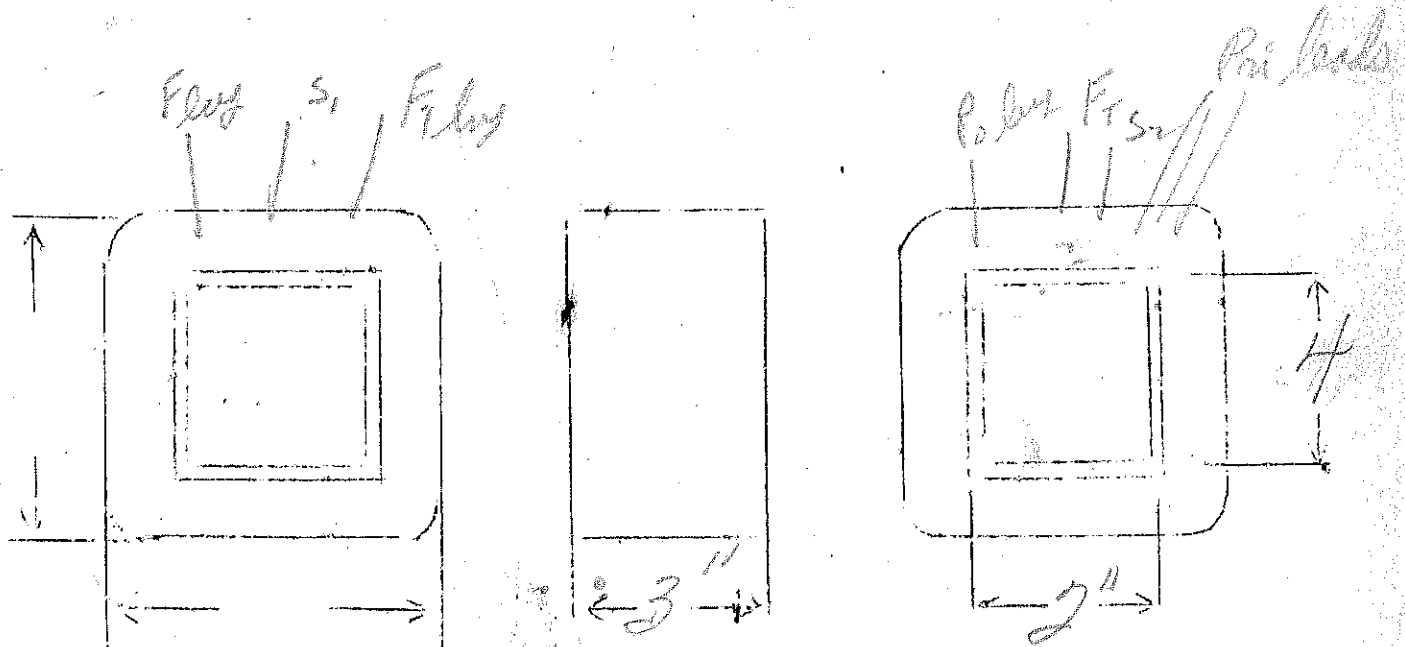
$E_p - 110, 115, 120, 125V$

$E_s - 1275V - 300Ma$

$E_f - 20V, CT. - 3.25 \text{ amps}$

SPEC. NO. 1445-25N

Winding	SEC	SHIELD	PRI	FL			
Turns	1885	112	162-156	30			
Taps	—		150-144	15			
Wind. Lgth.	$2\frac{3}{8}$	$2\frac{3}{8}$	$2\frac{3}{8}$	double			
Wire Size	#25	#25	#11	20#			
T.P.L.	112-17						
Kind Term.	#20 #30	silver	#16 ground	WIRE ONLY			
Term. Lgth.	9"	4"	9"	3"			
Layer Insul.	double 20#						
Wrapper	210050A 210050C	210050R	210050A	210050A 14010RR			
TUBE	102007+ 14007VC		IMPREGNATION		VARNISH		
CURE	2x4		short E				



DIATHERMY POWER
 110-115-120-125V @ 60^{Hz}
 TO
 1275 V @ 300 MA
 20V CT @ 3.25A

ROSE

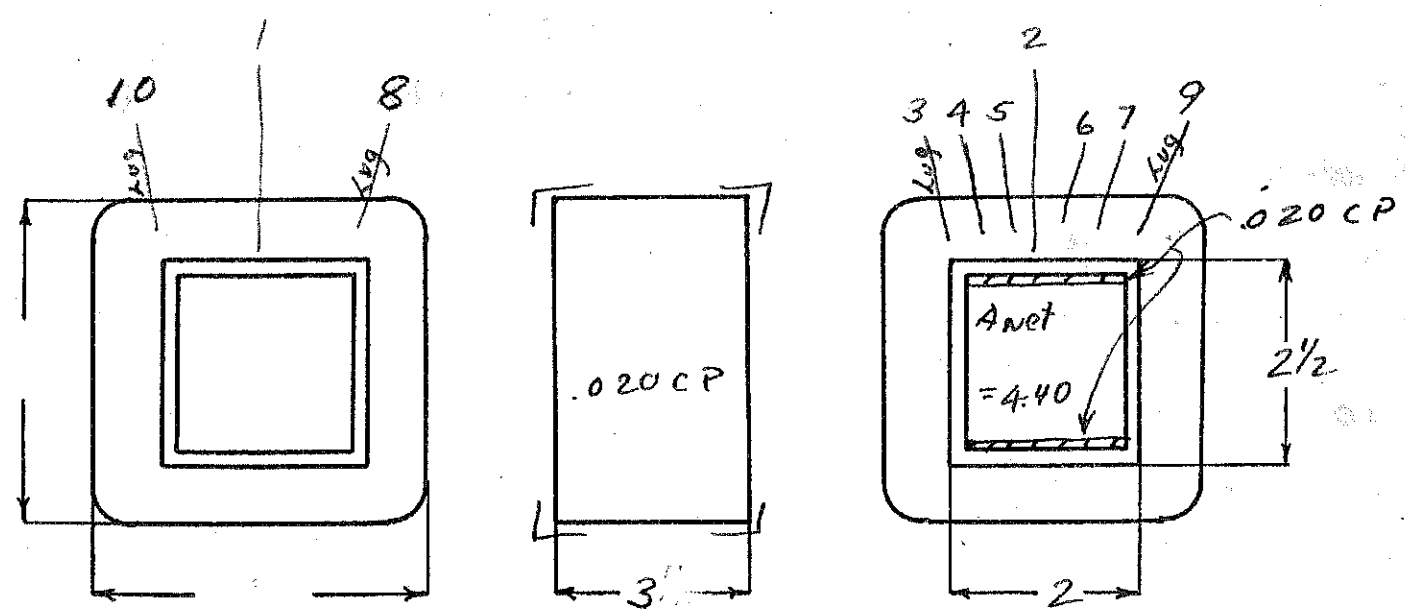
SPEC. NO. 1445

Winding	1-2 SEC	3-4-5-6-7 PRI	8-9-10 FIL
Turns	1885	162	29
Taps	-	144-150-156	15
Wind. Lgth.	2 3/8	2 3/8	2 1/4
Wire Size	#25	#11	Double #20
T. P. L.	112-172	24-7L	29-1L
Finish	90%	90%	86%
Type Lead	#20 Pr. Br. + Vinyl Sl.	#16 #3 To Lug Pr. Br.	W.O. To Lug.
Lead Lgth.	9"	9"	3"
Layer Insul.	Double 30#	1L0076A	-
Test Volt.	5000	1500	5000
Wrapper	2L007VC 2L0076A	2L007VC 2L0076A	2L007VC 2L0076A

TUBE 10L0076K + 1L007VC IMPREGNATION VARNISH

CORE 2 x 2 1/2 ^{short} GA. 24 EL GRADE D STACK 2 x 2

MOUNTING C - Aluminum Brackets



DESIGNED BY *rewritten* *Rose*

DATE 12-5-46

DESIGN AND TEST DATA

Rating:

Σ Sec VA = 448
 PF = 50% EFF = 91.9%
 PRI VA = 984

$I_p = 8.97 \text{ Max}$

Winding	1-2 SEC		3-4-5-6-7 PRI	8-9-10 FIL		
Mean Turn	11.0		15.3	18.3		
Resistance 25° c	72.0 57.1		.266	.163		
Pounds Copper	1.70		5.20	.20		
Copper Density	847		918 Max	629		
Ratio Volts	1455		110-115 120-125	11.6-10.8		
Test to Ground	5000		1500	5000		

Iron Induction 10.2 kg @ 60 Cycles

Exciting Current 580 milliamperes @ 110 volts 60 cycles on 3-4

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

Remarks:

