BICKENBACKER

E_p = 115V.

E_s = 250V — 80Ma

E_{F_1} = 5V — 2.0 amps

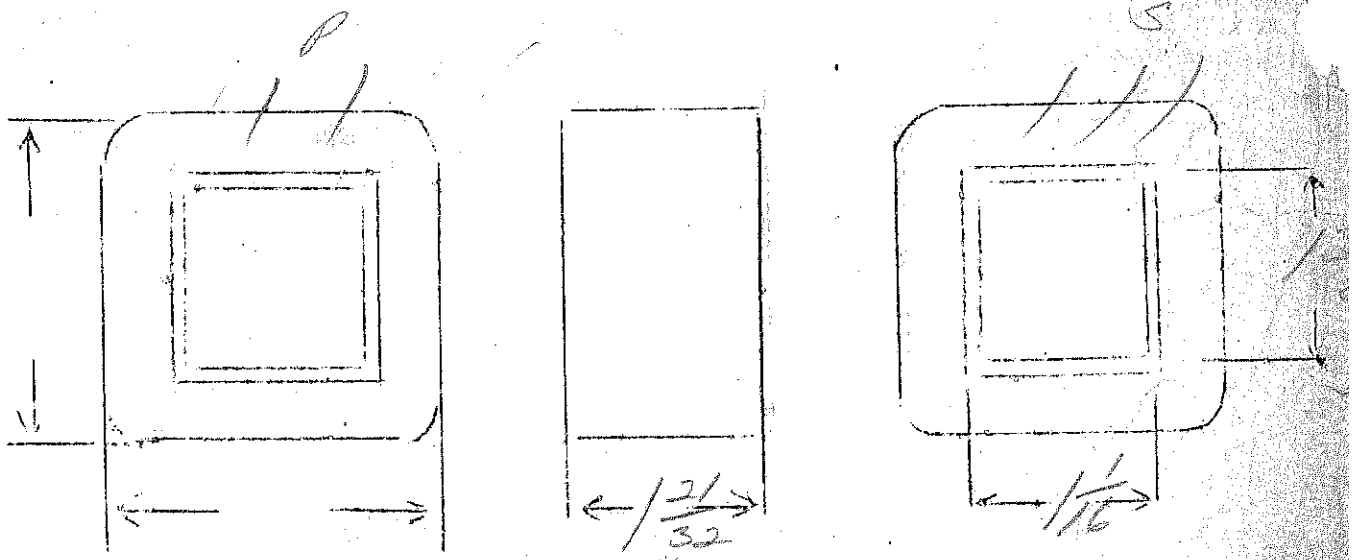
E_{F_2} = 2.5V — 6 amps CT

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

SPEC. NO. 1201

Winding	PRI	SHIELD	SEC	F_1	F_2		
Turns	460	59	3200	22	11		
Taps	—	—	1600	—	5		
Wind. Lgth.	$1\frac{15}{32}$	$1\frac{15}{32}$	$1\frac{15}{32}$	—	—		
Wire Size	#24	#24	#33	#30	#Enamel 18		
T.P.L.	59-8	59-1	165-20	—	—		
Kind Term.	#20 Stand. wire		#20 Stand.	wire			
Term. Lgth.	9	3	9	9	9		
Layer Insul.	50#	—	30#				
Wrapper	1L007K	1L007K	2 Layers 2L005A				

TUBE	4L007	IMPREGNATION	VARNISH
CURE	$1\frac{11}{16} \times 1\frac{3}{8}$		



19 Sim 28

E_p = 110V VA = 110

E_s = 5.5V – 20 amps

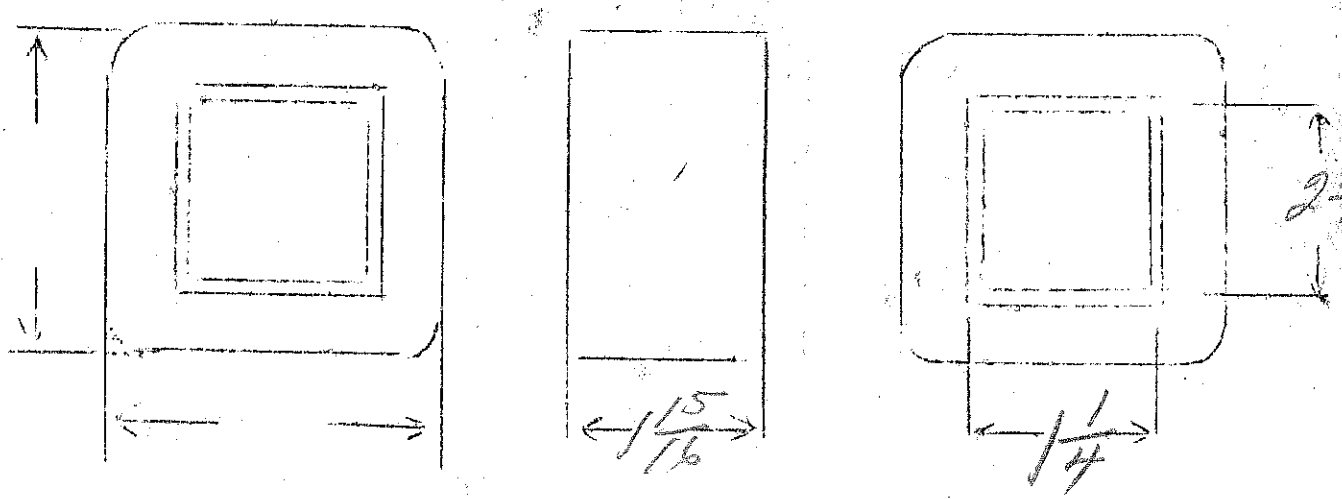
20,000 volt Insulation

SPEC. NO. 1202

Winding	PRI	SEC					
Turns	220	12					
Taps	—	—					
Wind. Lgth.	1.75		wind full in center				
Wire Size	#21	#8	of coil				
T.P.L.	55-4	3-4					
Kind Term.	wire	wire	Run tin in edge turn				
Term. Lgth.	8	8 11					
Layer Insul.	50#	CA					
Wrapper	2400TOP 5.400VC 2400BOT	2400TOP 5.400VC 2400BOT					

TUBE | 2007 | IMPREGNATION | VARNISH

CURE | 1¼ X 2 3/8



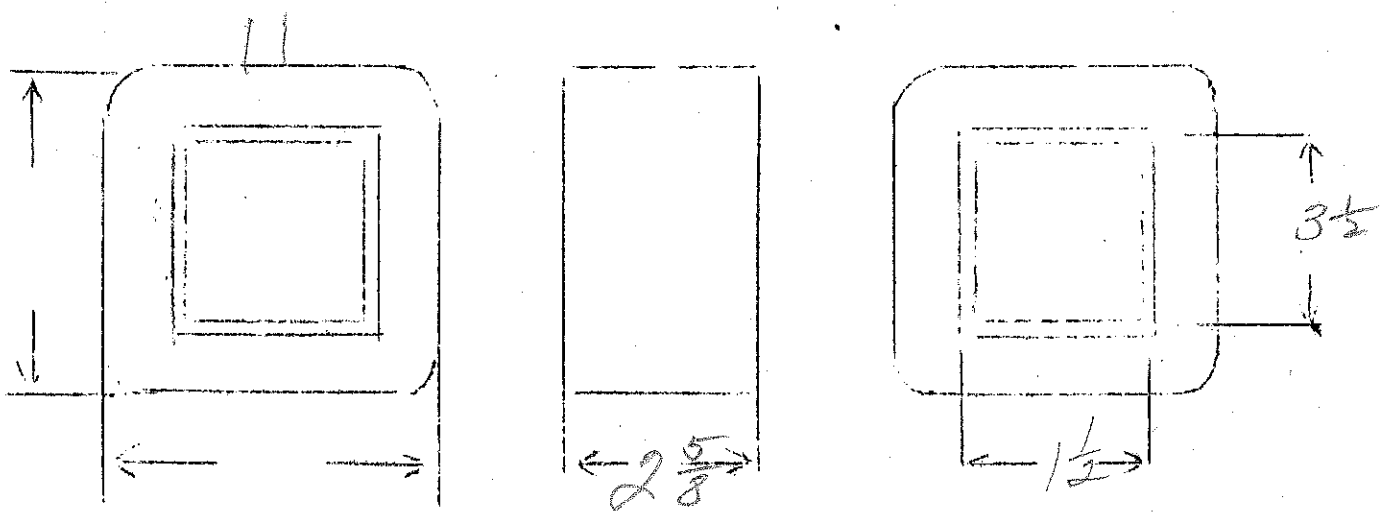
SPEC. NO. 1203

Winding	P	S_1	P_2	S_2			
Turns	130	260	260	520			
Taps	—	—	—	—			
Wind. Lgth.	2½						
Wire Size	20E	20E	20E	20E			
T.P.L.							
Kind Term.	WIRE ONLY						
Term. Lgth.	8"	8"	8"	8"			
Layer Insul	.005						
Wrapper	2Lw05EA	2Lw05EA	—				

TUBE | 7Lw07 | IMPREGNATION | VARNISH

CURE | 1½ x 3½

for each transformer wind 1 — $P_1 \times S_1$.
2 — $P_2 \times S_2$



$P_1 - S_1$ — 1½ x 3½

$P_2 - S_2$ — ¾ x 3½

E_p = 115 V

E_s = 800 v – 300 MA

F_1 = 5 V – 3 amps

F_2 = 2.5 V – 10 amps

VA = 160

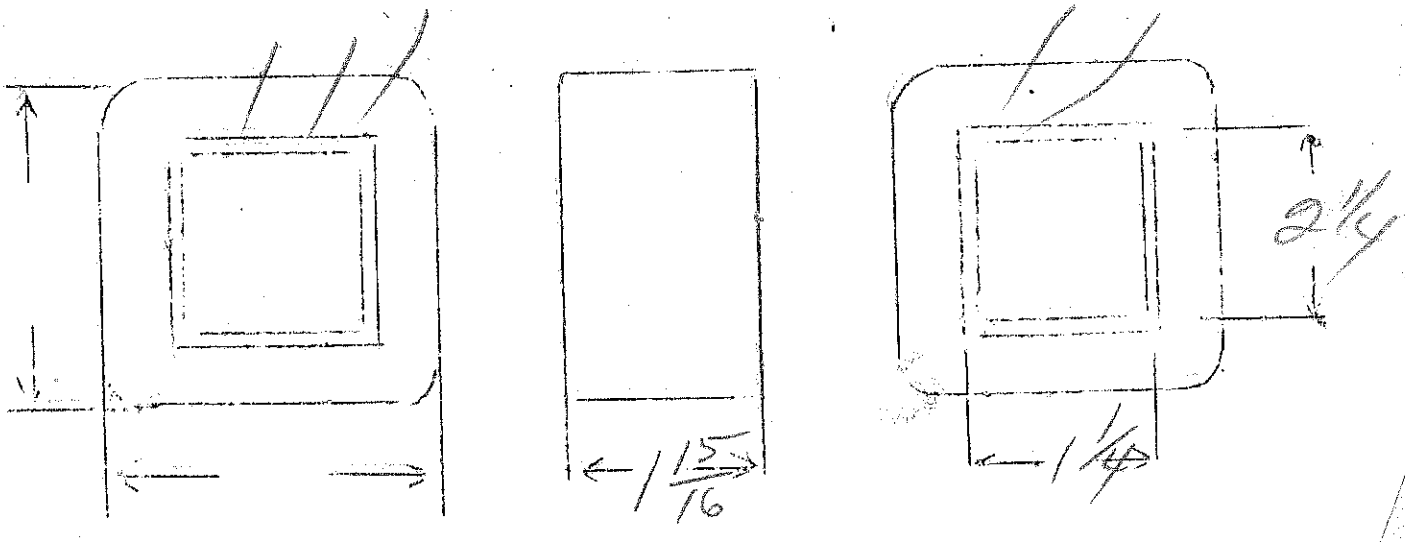
$\frac{N}{E}$ = 2.15

SPEC. NO. 1205

Winding	SEC	SHIELD	PRI	F_1	F_2		
Turns	1850T	1	248	12	6		
Taps	925	—	—	—	3		
Wind. Lgth.	1.75	1.75	1.75		double		
Wire Size	#28	sheet copper	#19	#18	#16		
T.P.L.	117-16	foil	42-6	1 layer			
Kind Term.	#20 Plomb	foil Braid	WIRE ONLY				
Term. Lgth.	9	3	9	9	9		
Layer Insul.	50#	—	1 mil				
Wrapper	2L007A	1L007A	2L007A	2L007A			

TUBE | 7L007 | IMPREGNATION | VARNISH

CURE | 1½



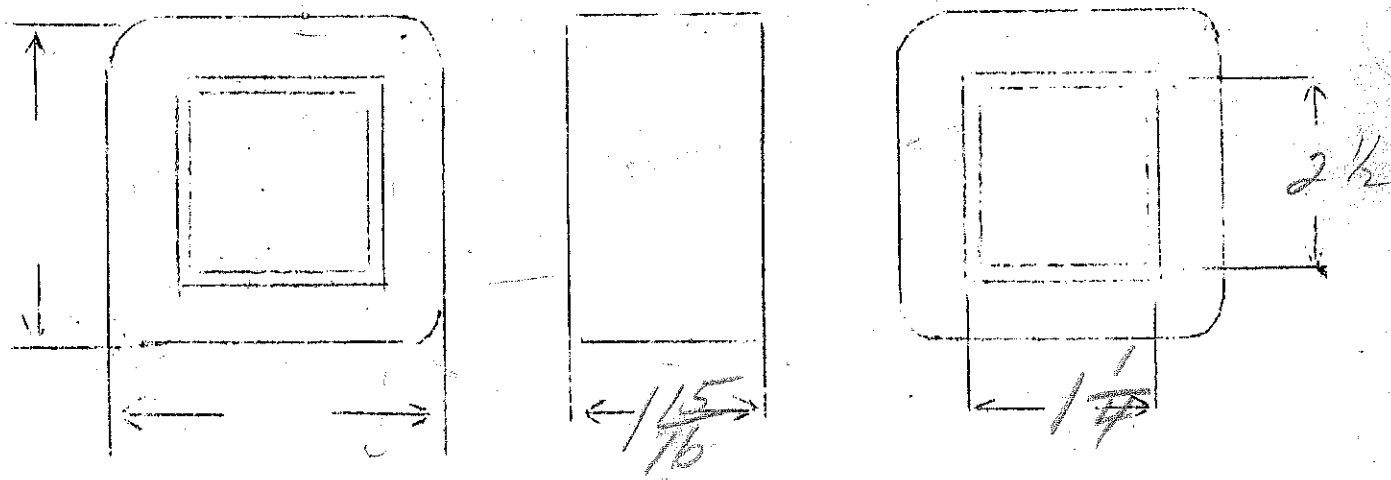
E_p = 110 - 120 V
E_S = 1200 VCT - 150 ma
E_{F1} = 2.5 V CT - 2.5 amps
E_{F2} = 2.5 V CT - 2.5 amps
E_{F3} = 2.5 V - 5 amps
E_{F4} = 2.5 V - 1 amp
E_{F4} = 2.5 V - 12 amps no CT

SPEC. NO. 1206

NE-186

Winding	SEC	SHIELD	PRI	F1	F2	F3	F4	F5
Turns	2540	165	224	15	15	5	5	5
Taps	1270	—	208	—	—	—	—	—
Wind. Lgth.	1.75	1.75	1.75					
Wire Size	#31	#31	#20	#19	22	#17	#17	#12
T.P.L.	165-16	165	16		1 layer			
Kind Term.	silver	silver	wire	ends				
Term. Lgth.	3	3	3"	3	3	3	3	3
Layer Insul.	30#							
Wrapper	2L007VC	2L005GA	2L007VC 2L007GA	2L007VC 2L007GA		2L005GA		

TUBE	7L007 + 1L007VC	IMPREGNATION	KARNISH
CURE	1½ x 2½		



Ashcroft

E_p = 1154

E_s = 750V – 125 MA

E_{F1} = 5V CT – 3.5 amps

E_{F2} = 6.3V CT – 3.5 amps

B = 12000

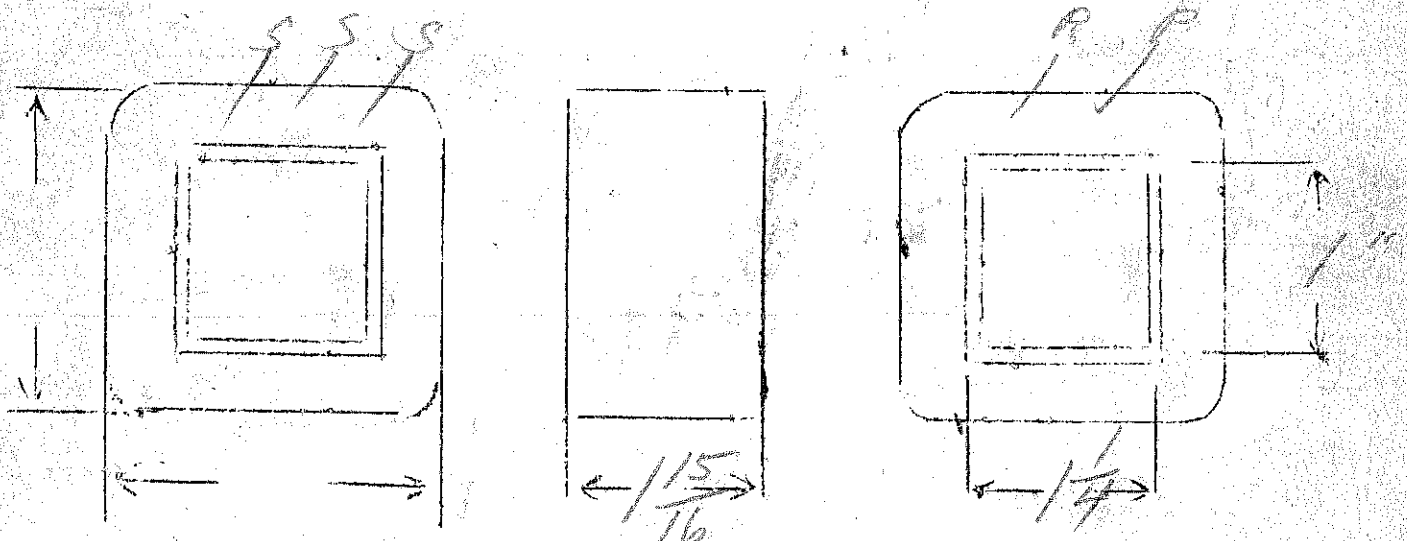
$\frac{N}{E}$ = 4.65

SPEC. NO. 1207

Winding	PRI	SHIELD	SEC	F_1	F_2		
Turns	535	180	3880	26	32		
Taps	—	—	1940	13	16		
Wind. Lgth.	1.75	1.75	1.75	—	—		
Wire Size	#23	#32	#32	#18	#17		
T.P.L.	68-8	180	180-22				
Kind Term.	#30 Plated	wire	#30 Plated	wire			
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	5 0#	—	3 5#	—	—		
Wrapper	2 00 K Kraft		2 00 K Kraft	2 00 K Kraft			

TUBE | 2007 | IMPREGNATION | VARNISH

CURE | 1½ x 1 | 2 x 2



COIL & LAMINATIONS

THE RE-VITALIZER CO.

Vibrator magnet

SPEC. NO. 1208

Winding	Pri						
Turns	500						
Taps	—						
Wind. Lgth.	1.75						
Wire Size	#19						
T. P. L.	#2-12						
Finish	Lacq.						
Type Lead	W.O.						
Lead Lgth.	4"						
Layer Insul.	007K						
Test Volt.	1250						
Wrapper	2L007GA						

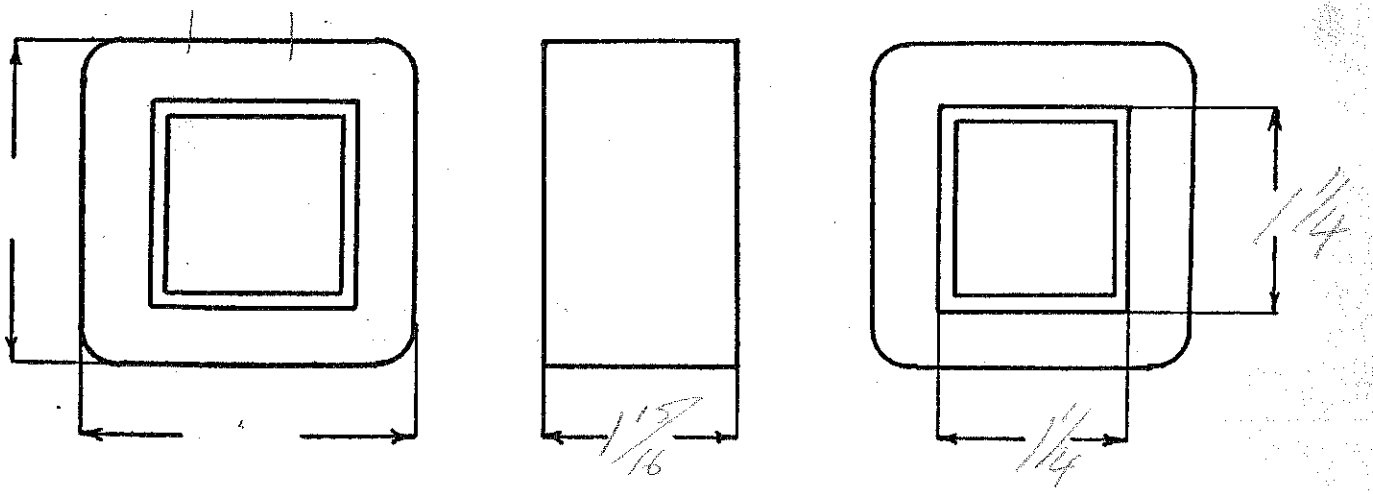
TUBE 7L007GK IMPREGNATION Varnish laminations

CORE 1¼ x 1¼ GA. [illegible] GRADE D STACK E's only

MOUNTING None — 1¾" - 10-32 bolts Lock washer on head end away from legs

(over)

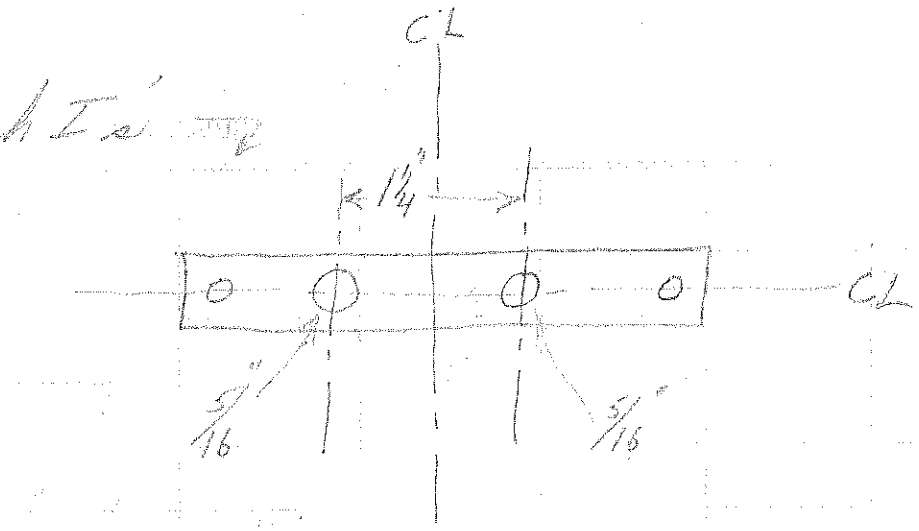
Clamp core for baking — wire ends of E's.
Stack face must be smooth.
Rivet E's and smooth one face.



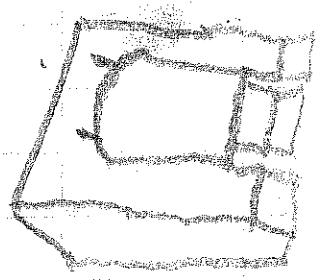
DESIGNED BY

DATE

Punch Die



Dwg



$E_p = 115V$

$E_s = 1250V$ — 80 ma

VA = 100

$\frac{N}{E} = 3.72$

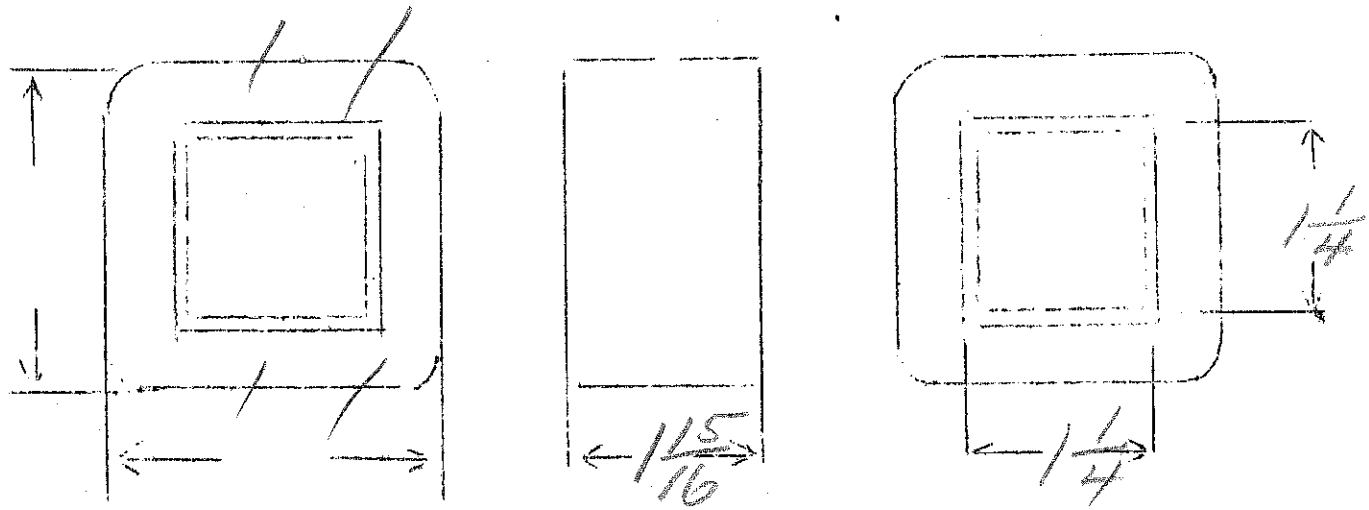
5000V Insulation

SPEC. NO. 1209

Winding	SEC	PRI					
Turns	5000	#28					
Taps	—	—					
Wind. Lgth.	1 1/16	1 11/16					
Wire Size	#32	#21					
T.P.L.	180-22	50-9					
Kind Term.	sil-br	wire					
Term. Lgth.	3"	3"					
Layer Insul.	50#	50#					
Wrapper	2L007VC 2L007GA	2L007GA					

TUBE | 2L007 + 2L007VC | IMPREGNATION | VARNISH

CURE | 1/4 x 1/4 2 x 2 24 G



PATTERSON

E_p = 110, 125 V

E_s = 350 V – 125 Ma.

E_{f_1} = 6.2 V – 4 amps

E_{f_2} = 5 V – 3 amps

$\frac{N}{E}$ = 4.2

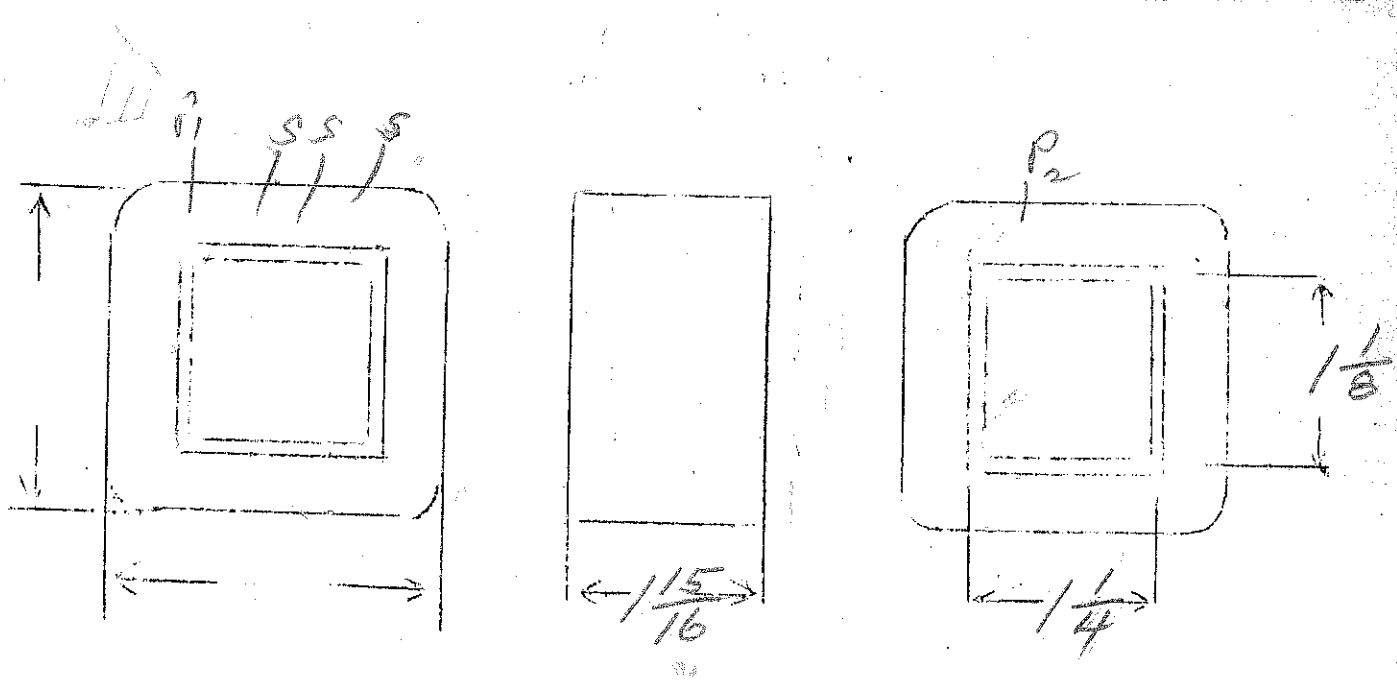
VA =

SPEC. NO. 1210

Winding	SEC.	SHIELD	PRI	F_1	F_2		
Turns	3400	1	525	29	23		
Taps	1700	—	462	—	—		
Wind. Lgth.	1.25	1.75	1.75	—	—		
Wire Size	#32E	sheet copper	#22E	#17E	#18E		
T.P.L.	175-20	1	59-9	—	—		
Kind Term.	#20 Plomd	sil Br	#20 Plomd	wire	wire		
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	30# 1L007VC 3L 30# GL	—	50# 1L007VC	—	—		
Wrapper	2L0076A	1L007VC	2L0076A	2L0076A	2L0076A		

TUBE | 7L007 | IMPREGNATION | VARNISH

CURE | $1\frac{1}{2}$ x $1\frac{1}{8}$



PATTERSON

E_P = 110 - 125 V

E_S = 350 V - 175 Ma.

E_{F_1} = 6.2 V - 4.1 amps

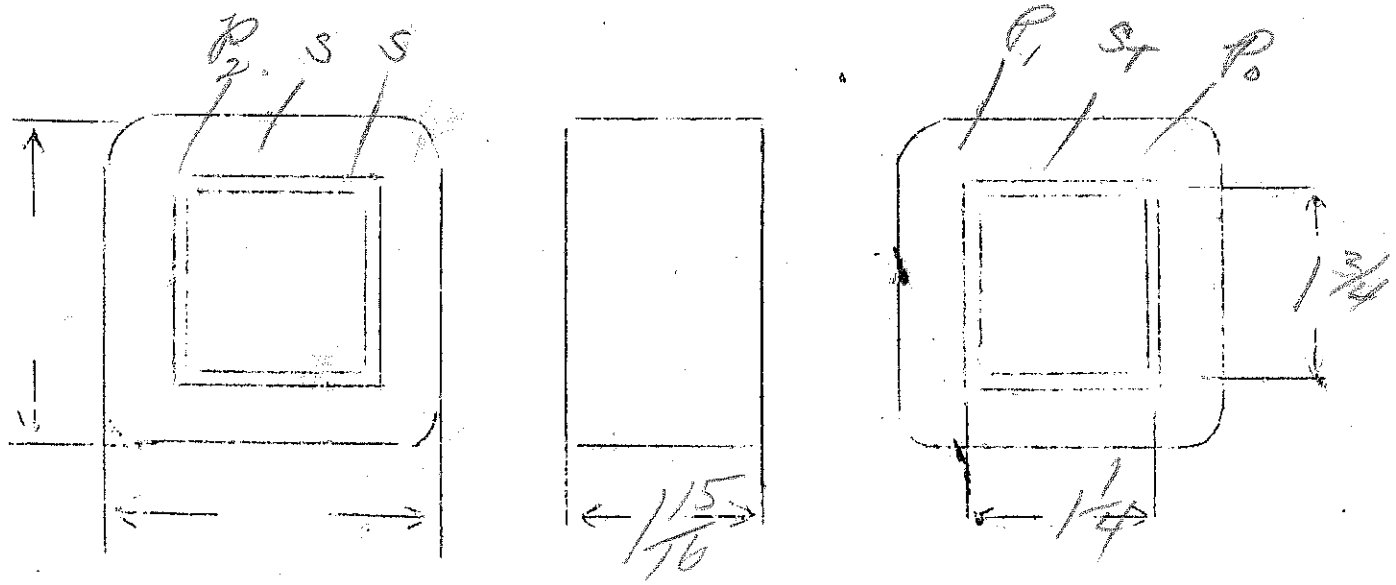
E_{F_2} = 5 V - 3 amps

E_{F_3} = 2.5 V - 5 amps

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

SPEC. NO. 1212 A

Winding	SEC	SHIELD	PRI	F_1	F_2	F_3	
Turns	2350	1	365	20	16	8	
Taps	1175		320				
Wind. Lgth.	1.25	1.75	1.75	1.25			
Wire Size	#31C	copper ~~wiring~~ strip	#21C	#16	#18	#16	
T.P.L.	175-14		54-7				
Kind Term.	#20 PBC	with	#20 PBC	WIRE	ONLY		
Term. Lgth.	9"	3"	9"	9"	9"	9"	
Layer Insul.	50#		50#				
Wrapper	2L007C 3L 8#	1L007C	2L007GA	2L007GA	2L007GA		
TUBE	7L007 + 2L 50# Kel		IMPREGNATION	VARNISH			
CURE	1½ X 134						



E_p = 110 - 125

E_s = 750V — 175 Ma

E_{F_1} = 6.2V — 4.1 amps

E_{F_2} = 5V — 3 amps

E_{F_3} = 2.5V — 5 amps

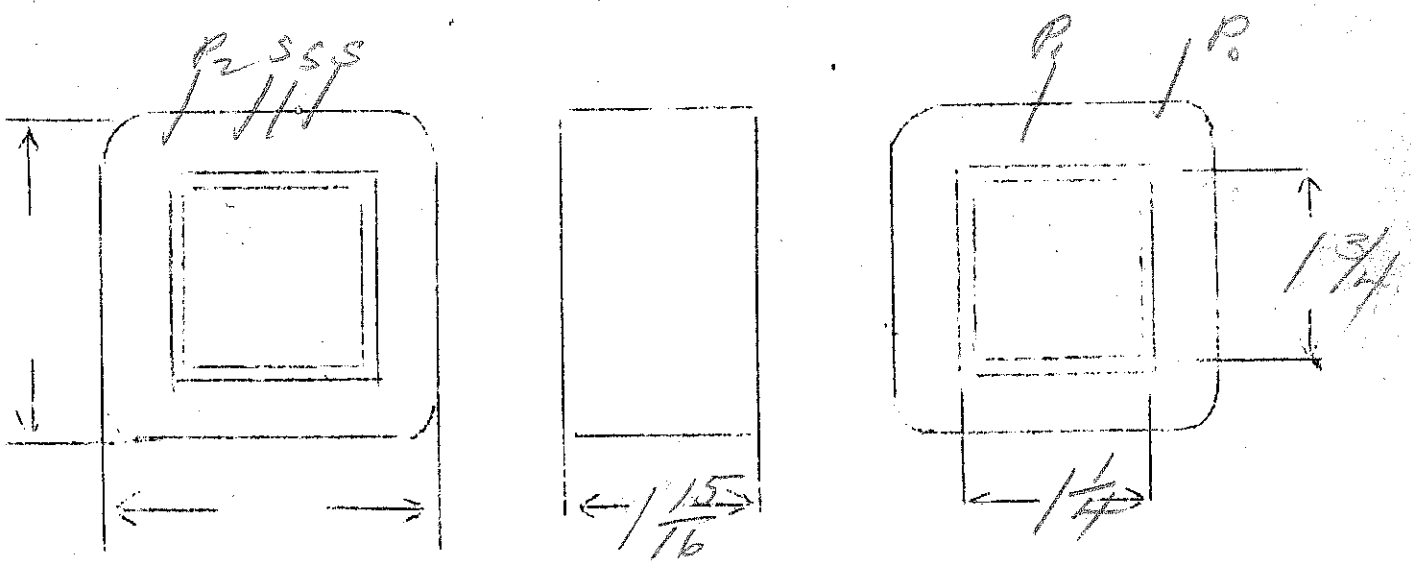
$\frac{N}{E}$ = 2.9

SPEC. NO. 1212

Winding	SEC	SHIELD	PRI	F	F2	F3	
Turns	2300	1	365	20	16	8	
Taps	1150	—	320	—	—	—	
Wind. Lgth.	1.75	1.75	1.75	—	—	—	
Wire Size	#30 E	Sheet Copper	#21	#16	#18	#16	
T.P.L.	145-16						
Kind Term.	#20 PBr	silv	#20 PBr	WIRE ONLY			
Term. Lgth.	9	3	9	9	9	9	
Layer Insul.	50#	—	50#	—	—	—	
Wrapper	1L007TKC 2LGL	1L007KC	2L007GA	2L007GA	2L007GA		

TUBE | 1L007 + 3150# Bd | IMPREGNATION | VARNISH

CURE | 1 1/4 X 1 3/4



E_p = 110-125

E_s = 250V-125 ma.

E_{F_1} = 6.2V-4 amps

E_{F_2} = 5V-3 amps

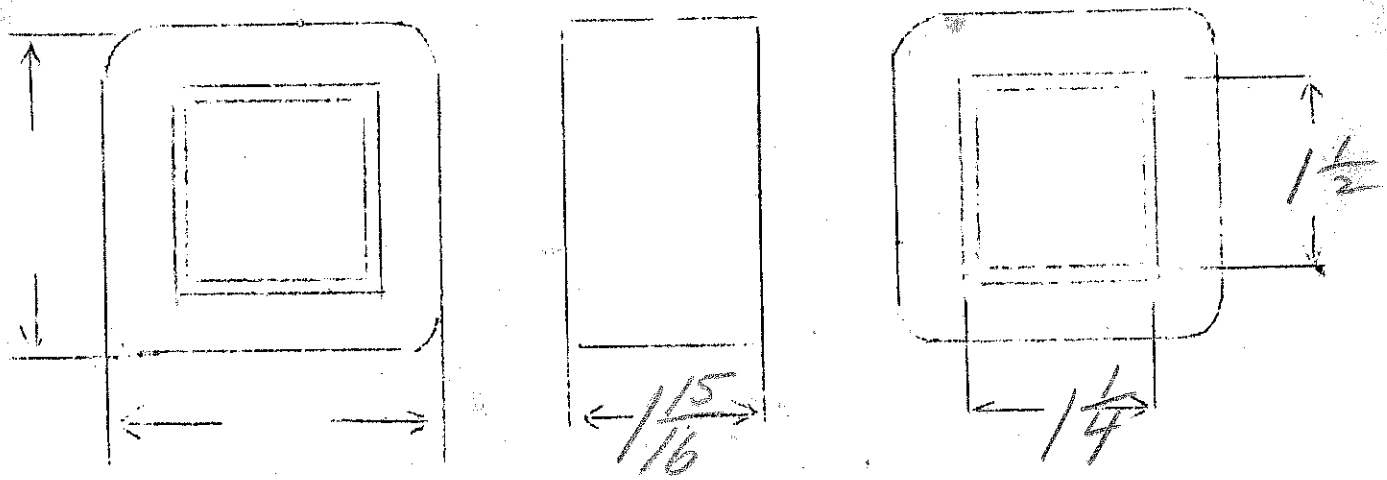
$\frac{N}{E}$ = 3.35

95

SPEC. NO. 1214

Winding	SEC	SHIELD	PRI	E_p	E_{F_2}		
Turns	2660	1	414	23	18		
Taps	1330	—	365	—	—		
Wind. Lgth.	1.70"	1.75"	1.75"	—	—		
Wire Size	#31	#22	#22	#17	#17		
T.P.L.	62-18		61-7	—	—		
Kind Term.	#30 PTFE	#22 PTFE		WIRE ONLY			
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	50#	—	50#	—	—		
Wrapper	3LG6 1LG07	1LG07	3LG07	2LG06A	2LG06A		
TUBE	2LG07			IMPREGNATION	VARNISH		
CURE	1 1/4 X 1 1/2						

Double Impregnation



E_p = 110–125

E_S = 750V – 175 Ma

E_{F_1} = 6.2V – 4.1 A.

E_{F_2} = 5V. – 3A

E_{F_3} = 2.5V – 5A

$\frac{N}{E}$ = 2.18

-86

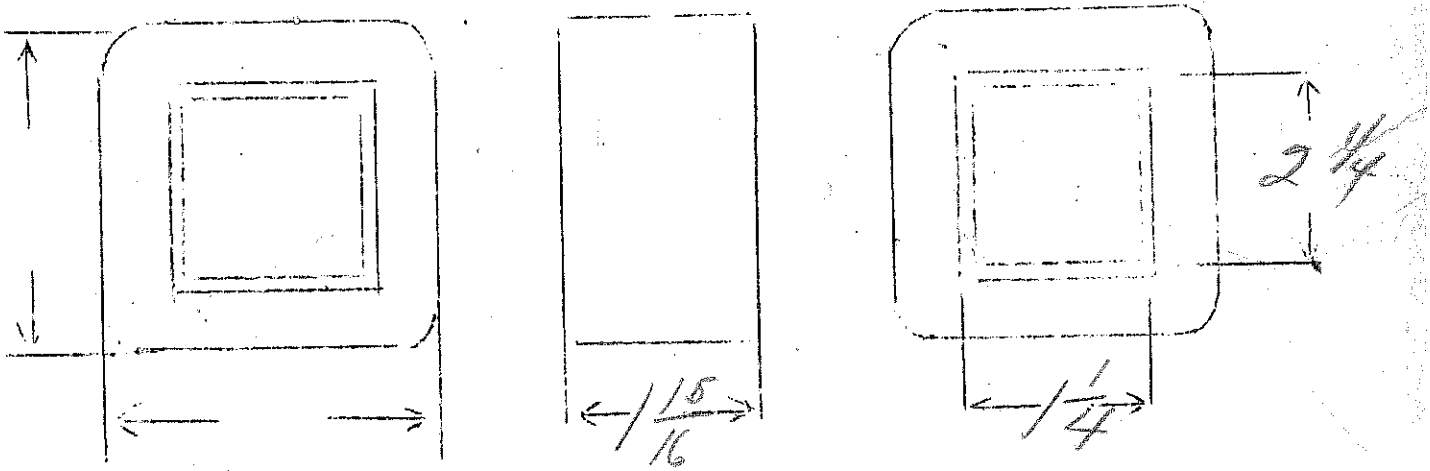
SPEC. NO. 1215

Winding	SEC	SHIELD	PRI	F_1	F_2	F_3	
Turns	1270	1	276	15	12	6	
Taps	885		243	—	—	3	
Wind. Lgth.	1.25	1.25	1.75	—	—	—	
Wire Size	#30	shield Copper	#20	#16	#17	#16	
T.P.L.	132–14		42–7				
Kind Term.	#55 P&B	silver	#20 P&B	WIRE ONLY			
Term. Lgth.	9"	3"	9"	9"	9"	9"	
Layer Insul.	50#	—	50#	—	—	—	
Wrapper	1L007C 2 Ml	1L007C	2L007CA	2L007CA	2L007CA		

TUBE | 1L007 | IMPREGNATION | VARNISH

CURE | 1 hr x 2 hr

Double Impregnation



Gate Panels $E_p = 110V$
$E_s = 6V$ 100 watts $\frac{N}{E} = 4.15$

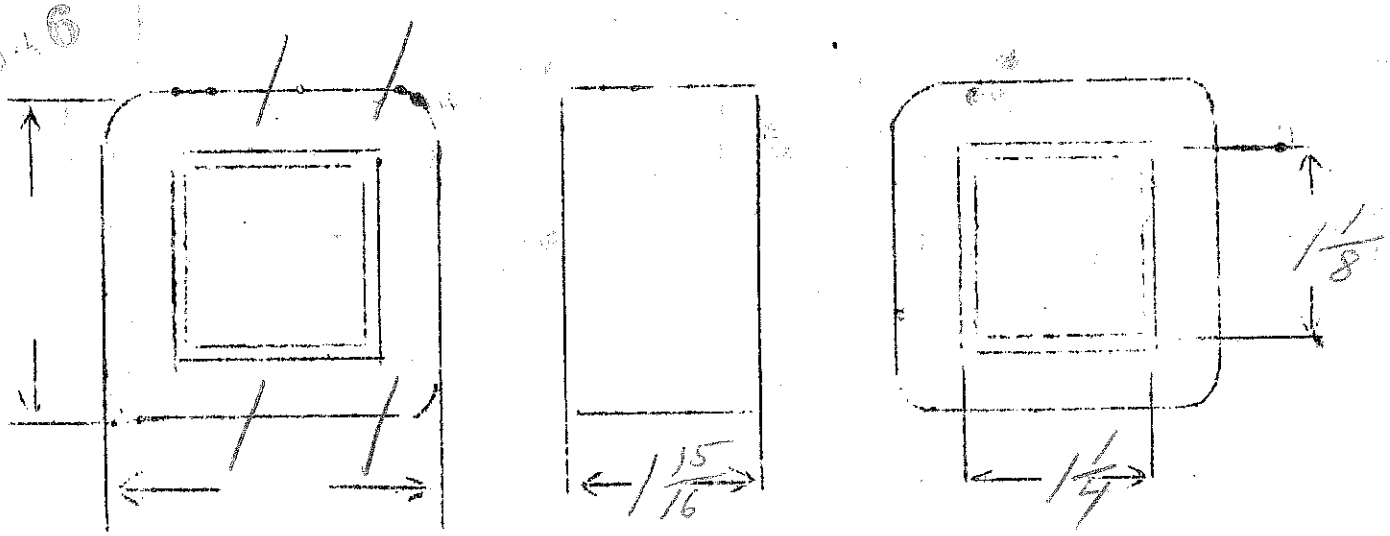
SPEC. NO. 1216

Winding	PRI	SEC					
Turns	462	27					
Taps	—	—					
Wind. Lgth.	1.75	1.75					
Wire Size	#21	#11					
T.P.L.	52-9	14-2					
Kind Term.	#14 stranded	wire only					
Term. Lgth.	6"	6"					
Layer Insul.	50 #	GA					
Wrapper	2L0076A	2L0076A					

TUBE | 7L007 | IMPREGNATION | VARNISH

CURE | 1 1/4 x 1 1/8

1846
1846



$E_p = 115$

$E_{S_1} = 2.5V$ – 2 amps

$E_{S_2} = 2.5V$ – 2 amps

$E_{S_3} = 1V$ – 2 amps

$E_{S_4} = 2.5V$ – 5 amps

SPEC. NO. 1218

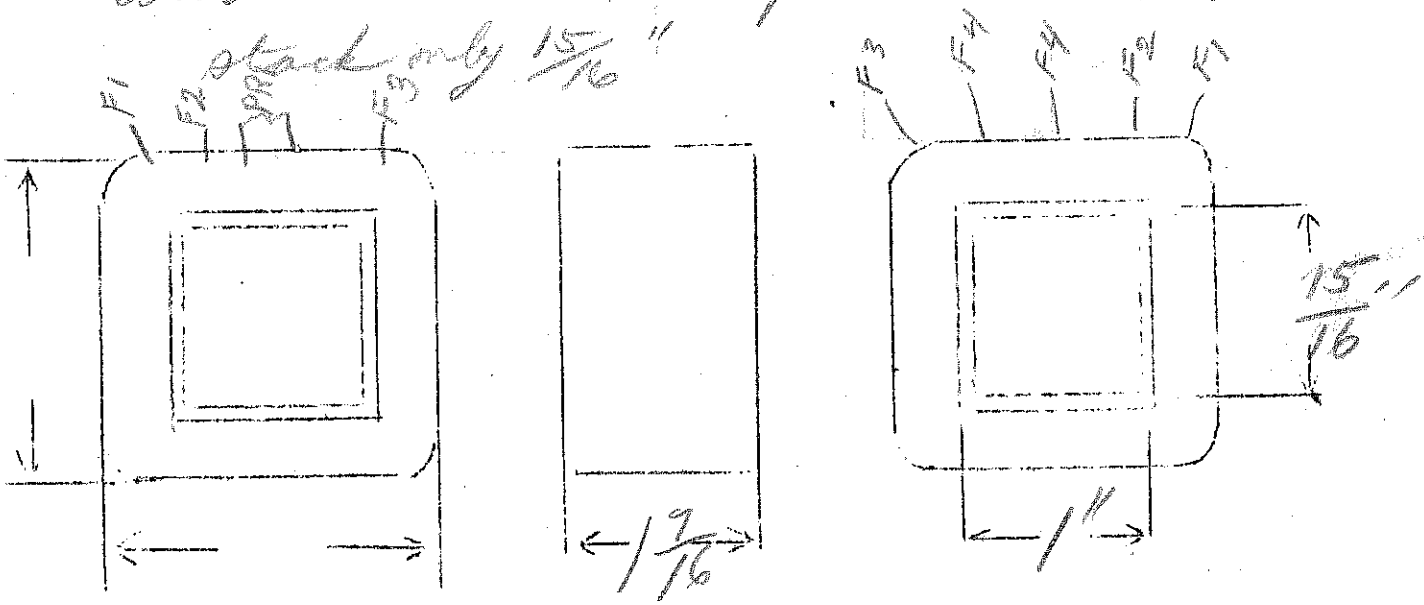
Winding	PRI	F_1	F_2	F_3	F_4		
Turns	745	18	18	7	18		
Taps	—						
Wind. Lgth.	1.25	1.25	—	—	—		
Wire Size	#29	#20	#20	#20	#16		
T.P.L.	75-10						
Kind Term.	WIRE	ONLY					
Term. Lgth.	3"	3"	3"	3"	3"		
Layer Insul.	30 #	.005 G.A.					
Wrapper	2 M5GA						

TUBE | 4L007 | IMPREGNATION | VARNISH

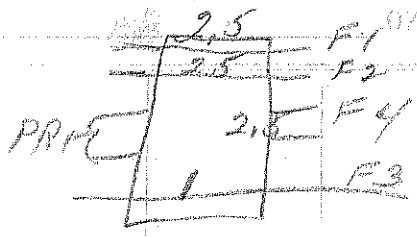
CURE | 1 X 15/16 W.W 2 X 2 260

wind on 1 X 1 mandrel for Commercial

stack only 15/16"



over

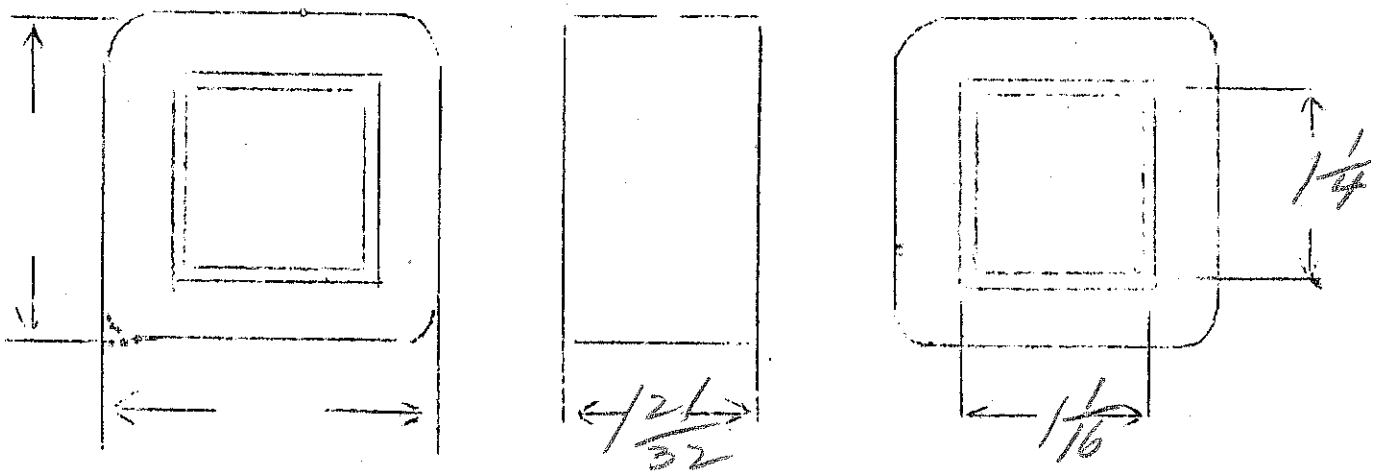

2,5
2,5
2,5
1
F1
F2
F4
F3

$\frac{N}{E} = .437$

SPEC. NO. 1219

Winding	PRI	SHIELD	SEC	FIL			
Turns	523	110	1700	24			
Taps	—		850	—			
Wind. Lgth.	1 15/16	1 15/16	1 15/16	—			
Wire Size	#24	#29	#29	#18			
T.P.L.	63-8	110	110-16				
Kind Term.	#22 Sn	nickel	#20 gun	WIRE			
Term. Lgth.	9"	3"	9"	9"			
Layer Insul.	30#		30#				
Wrapper	1 Mil MC	1 Mil MC	2 Mil SG	2 Mil SG			

TUBE	Mil 7	IMPREGNATION	VARNISH
CURE	1/16 x 1/4		



E_P = 115V Electro therapy E_S = 2700 V.C.T. - 500 watts E_F = 10V - 6 amps C.T. E = 11500 I = 1 #8313 REVISED TO 1220

Black White (350) q SPEC. NO. 1220 Replaces #66

Winding	SEC	PRI	F
Turns	2650	115	11
Taps	1525	—	5
Wind. Lgth.	2 3/8	2"	2" double
Wire Size	#26	#15	#18
T.P.L.	128 Ω 2.2 918	29Ω 85%	3Ω 46%
Kind Term.	#22 Plated	WIRE	ANLY
Term. Lgth.	6"	6"	6"
Layer Insul.	50#	Heavy	
Wrapper	2 Lay 7HC	2 Lay 5 GA	Holds Core

Put filament on last layer of pri. Insulate between and side of filament wind 2 Lay 5 GA

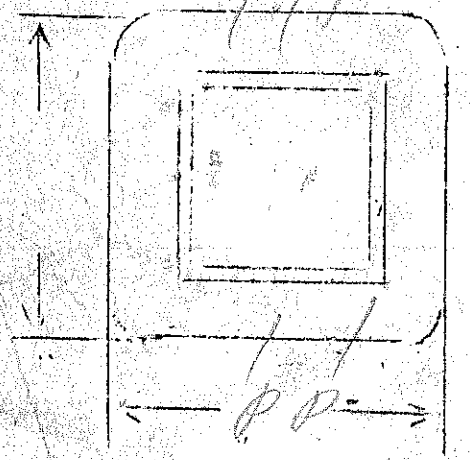
TUBE | 2L007 + 2L007VC | IMPREGNATION | VARNISH

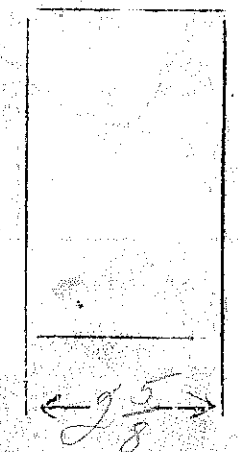
CURE | 1/2 x 4" | Fast Cure Bake

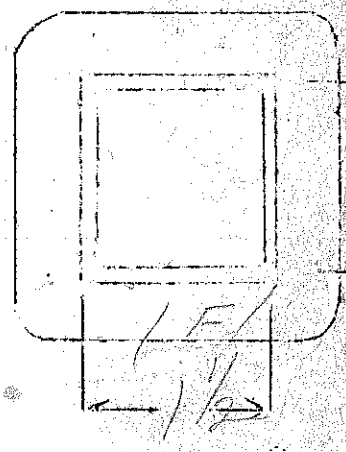
Cu = 1143 - 500 - 542
Fe = 71H @ 60N
FM = 1.00
WN = 732 (772)

ESec VA = 560
Pri VA = 750
Pri I = 6.52 Amp.

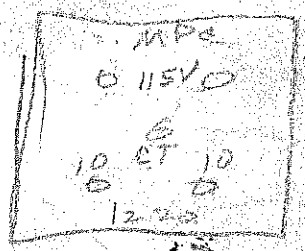
555

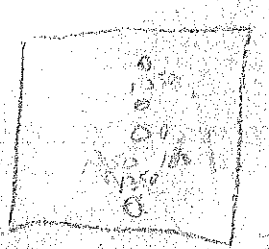






BLACK





E_b = 155V 350 ma

E_s = 600V — 40 Ma

E_{f_1} = 5V — 2 amps

E_{f_2} = 2.5V — 3.5 amps

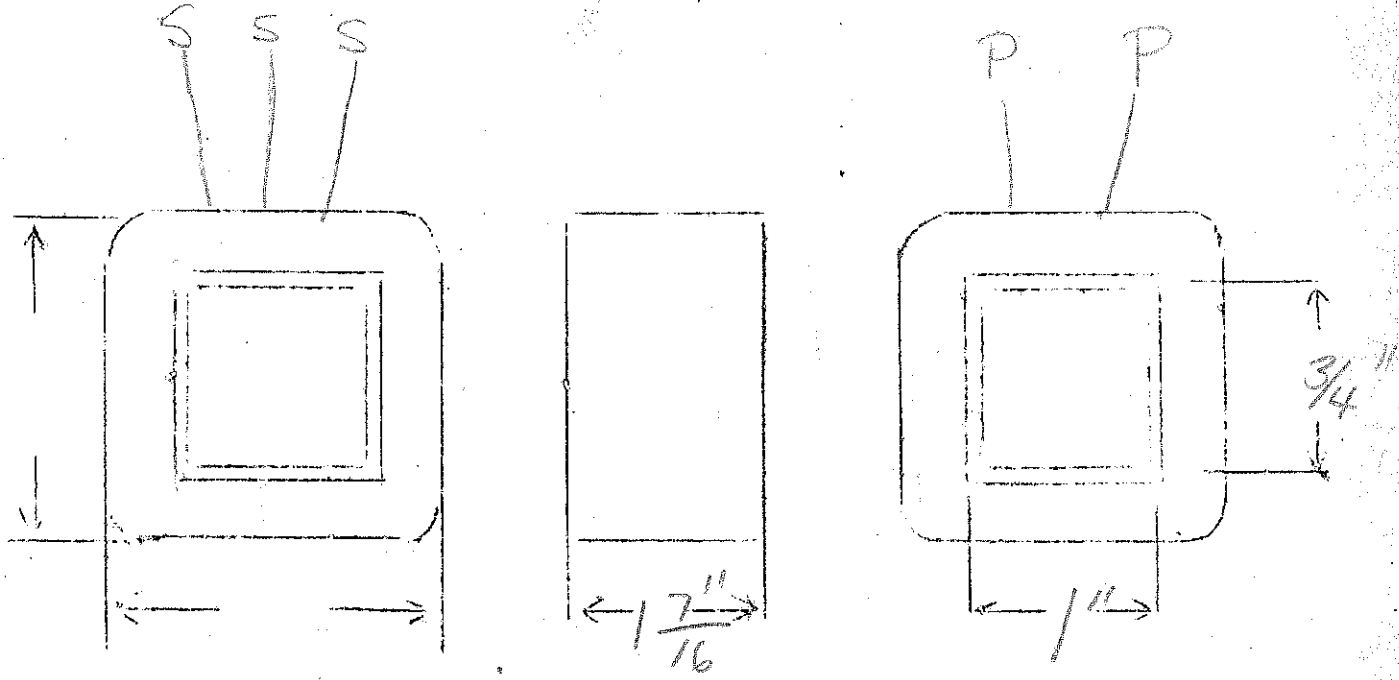
Spec. Pri = 155 V.

SPEC. NO. 1221

Winding	PRI	SHIELD	SEC	E_f	E_{f_2}		
Turns	1000	85	4200	36	18		
Taps	NONE	—	2100				
Wind. Lgth.	1.25	1.25	1.25				
Wire Size	#29E	#29E	#37	#21	#18		
T.P.L.	85-12	85	210				
Kind Term.	#20 PBR	S/N Cr	#20 RBR				
Term. Lgth.	7"	3"	7"	7"	7"		
Layer Insul.	3 mil		2 mil				
Wrapper	1 Layer Glass Tape		2 Layers Glass Tape				

TUBE	4L007	IMPREGNATION	VARNISH
CURE	1 x 3/4 NW		

165



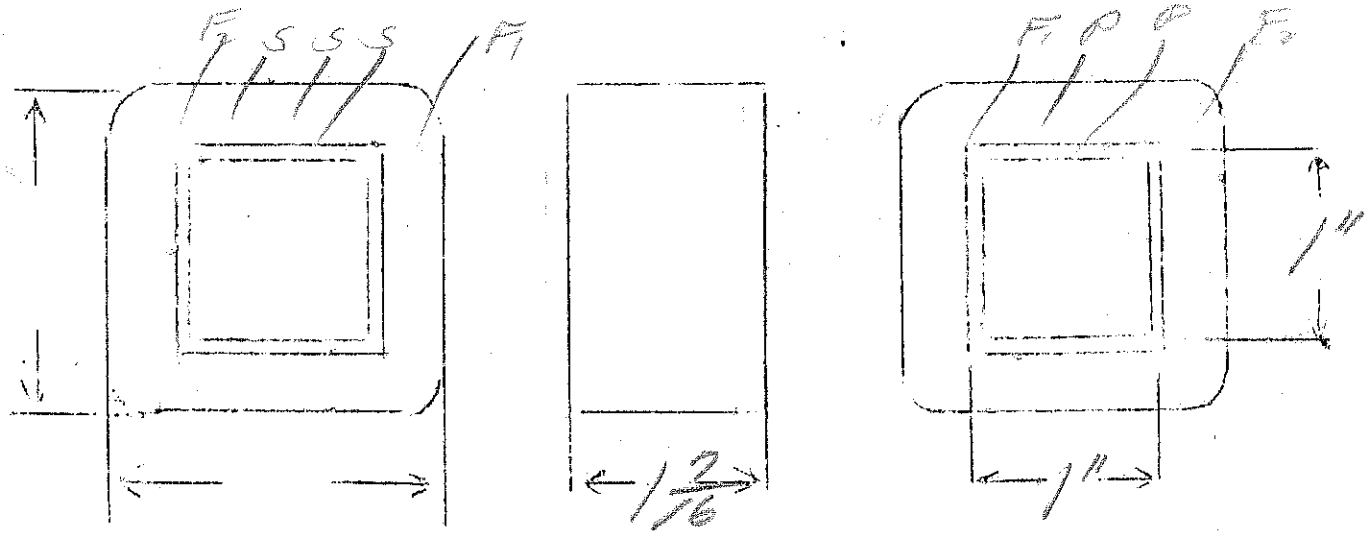
5 tube - ac/dc

513

SPEC. NO. 1221

Winding	PRI	SHIELD	SEC	F1	F2		
Turns	630	71	4000	30	15		
Taps	—	—	2000	—	—		
Wind. Lgth.	1/4	1/4	1/4				
Wire Size	#27	#27	#36	#21	double #20		
T.P.L.	71-9P	71-1	205-20				
Kind Term.	#20 Par.	wire	#20 Par.	wire	only		
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	30 #	—	20 #	—	—		
Wrapper	Manila	Manila	Manila	Manila	Manila		

TUBE	4L007	IMPREGNATION	VARNISH
CURE	1 X 1 NW		



E. HOUSE

E_b = 20V - 3.25 amps CT.

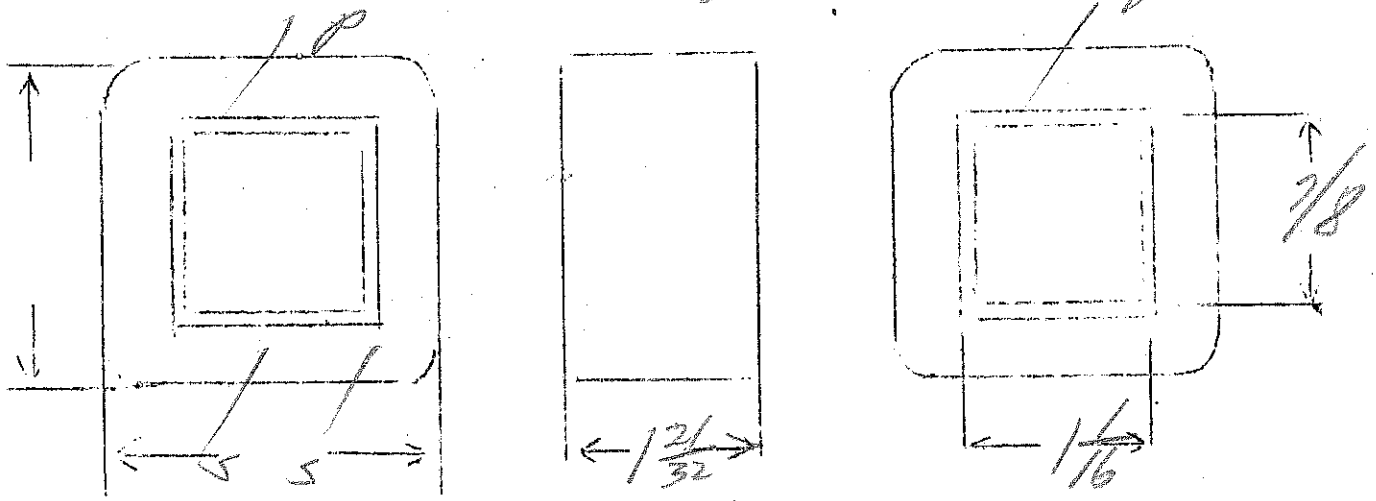
$\frac{N}{E}$ = 595

SPEC. NO. 1223

Winding	PRI	SEC					
Turns	683	130					
Taps	—	65					
Wind. Lgth.	1 15/32	1 15/32					
Wire Size	#24	#19					
T.P.L.	62-11	4 layer					
Kind Term.	#20 PBT	wire					
Term. Lgth.	9"	9"					
Layer Insul.	30#	4 mil					
Wrapper	2 Linen	2 Linen					

TUBE	Kraft	IMPREGNATION	VARNISH
CURE	1 hr x 275		

leads out side thru grommet



HIDF

E_p = 115 v~

E_s = 125 v~ 15 ma

E_f = 12.3 v~ .3 amps

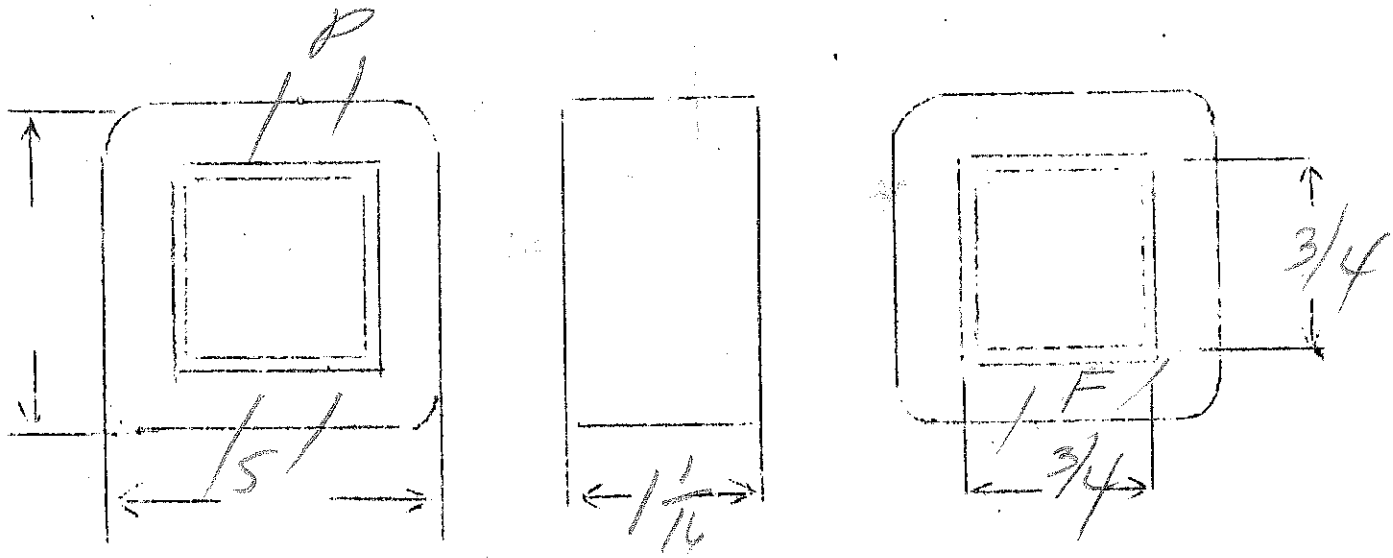
$\frac{N}{E} = 11$

SPEC. NO. 1224

Winding	PRI	SEC	Fil				
Turns	1260	1480	149				
Taps	—	—	24				
Wind. Lgth.	7/8	7/8					
Wire Size	#33	#38	#27				
T.P.L.	106-12	195	50-3				
Kind Term.	solder	solder	wire				
Term. Lgth.	3	3	3				
Layer Insul.	20#	20#					
Wrapper	1 Condenser	1 Condenser	2 Condenser				

TUBE | 4C007 | IMPREGNATION | VARNISH

CURE | 3/4 V 3/4 260 2x2



Radio Television

E_p = 115 V.

E_s = 2900 V. C.T. - 400 Ma

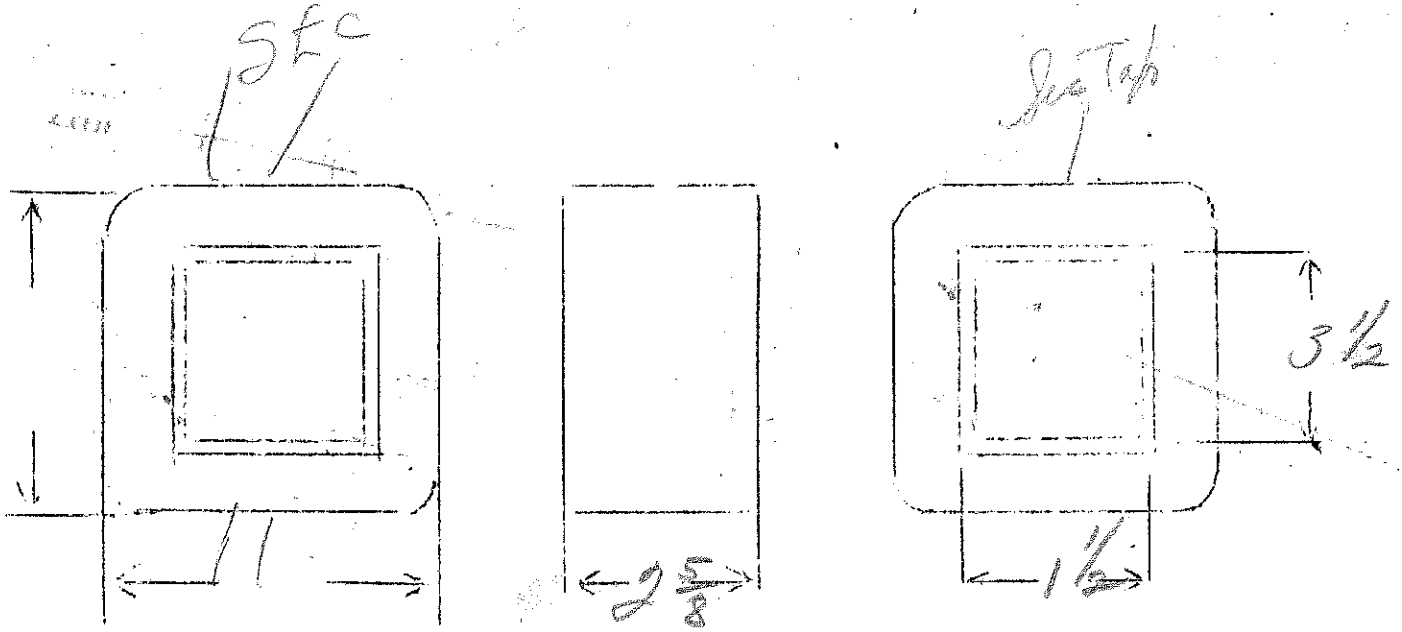
(4.25 x 4)

SPEC. NO. 1225

Winding	SEC	PRI					
Turns	3940	431					
Taps	1970	—					
Wind. Lgth.	2 3/8	2 3/8					
Wire Size	36	Litzle #18					
T.P.L.	132-30	27-5-P					
Kind Term.	wire only						
Term. Lgth.	6"	6"					
Layer Insul.	50#	Kraft					
Wrapper	2L007VC 2L0056 2L0056A	2L0102					

TUBE | 2L007 + 2L007VC | IMPREGNATION | VARNISH

CURE | 1 1/2 x 3 1/2



Halldird - Ahrens Brown Rectifier Tube

$E_p = 115V$

$E_s = 410 V$ CT — 250 Ma

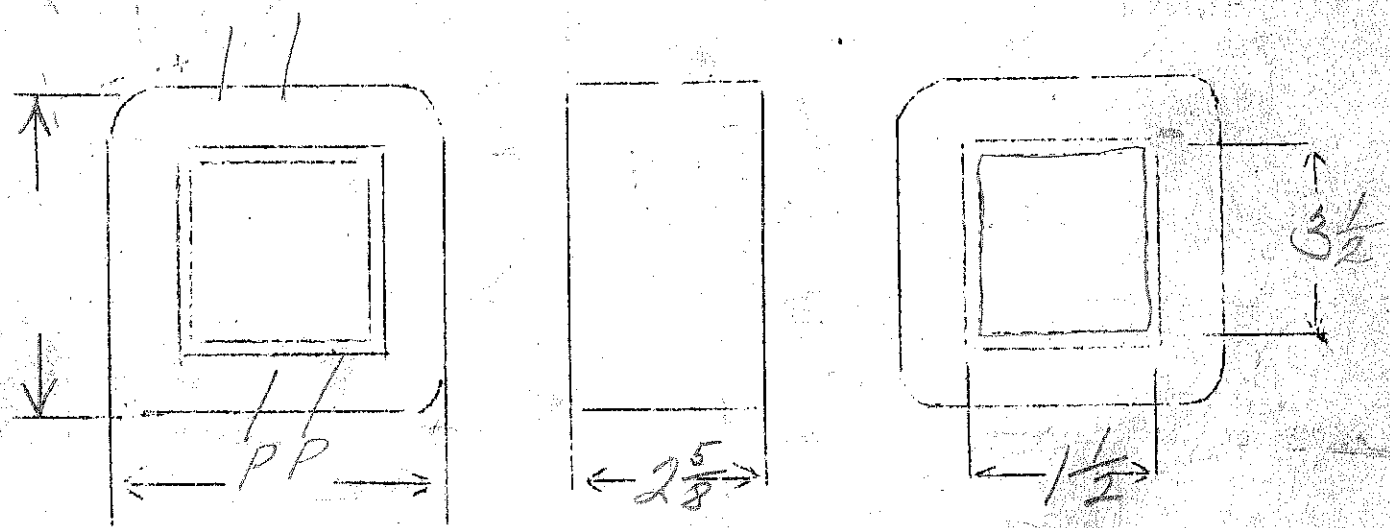
$\frac{N}{E} = 1.11$

SPEC. NO. 1226

(450 x 5)

Winding	SEC	PRI					
Turns	4940	128					
Taps	2470	—					
Wind. Lgth.	2 1/4"	2 3/8 double					
Wire Size	#28	#18					
T.P.L.	155-32	5 layers					
Kind Term.	wire	wire (leads)					
Term. Lgth.	6"	10"					
Layer Insul.	50#	Kraft					
Wrapper	9L007VC 9L005SR	2L005SR					
TUBE	9L007 + 2L007VC		IMPREGNATION	VARNISH			
CURE	1/2 x 3 1/2						

SEC. 7500 V. Breakdown



Ed. Rose

3500 V. Centertap

E_p = 110-115-120-125

$\frac{1}{E}$ = 1.26

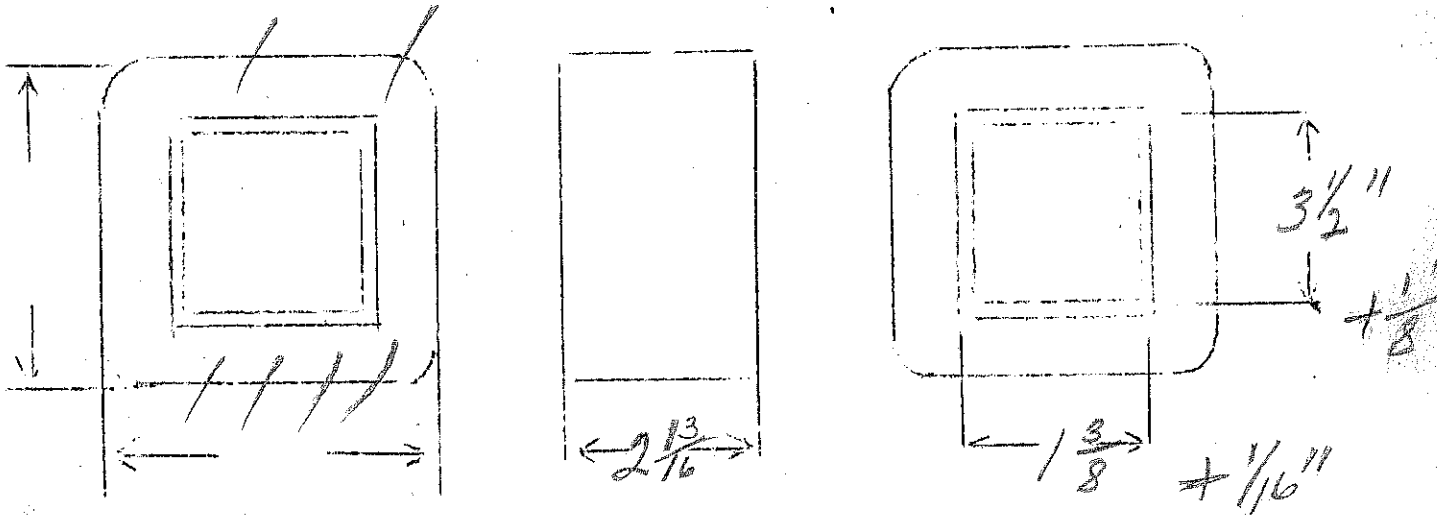
E_s = 3000V - 300Ma
full sec voltage at 250Ma

SPEC. NO. 1227

Winding	SEC	PRI					
Turns	4150	158 151					
Taps	—	145 139					
Wind. Lgth.	2 3/8	2 1/2"					
Wire Size	#27	#13					
T.P.L.	149-28	32-5					
Kind Term.	wire	wire					
Term. Lgth.	6"	6"					
Layer Insul.	60#	GA					
Wrapper	3L00VC 2L0056A	2L0056A 1L0102					

TUBE | 10L007 + 1L0012VC | IMPREGNATION | VARNISH

CURE | 1 3/8 X 3 1/2"



E_p = 110 - 115 - 120 $\frac{E}{S}$ = 234

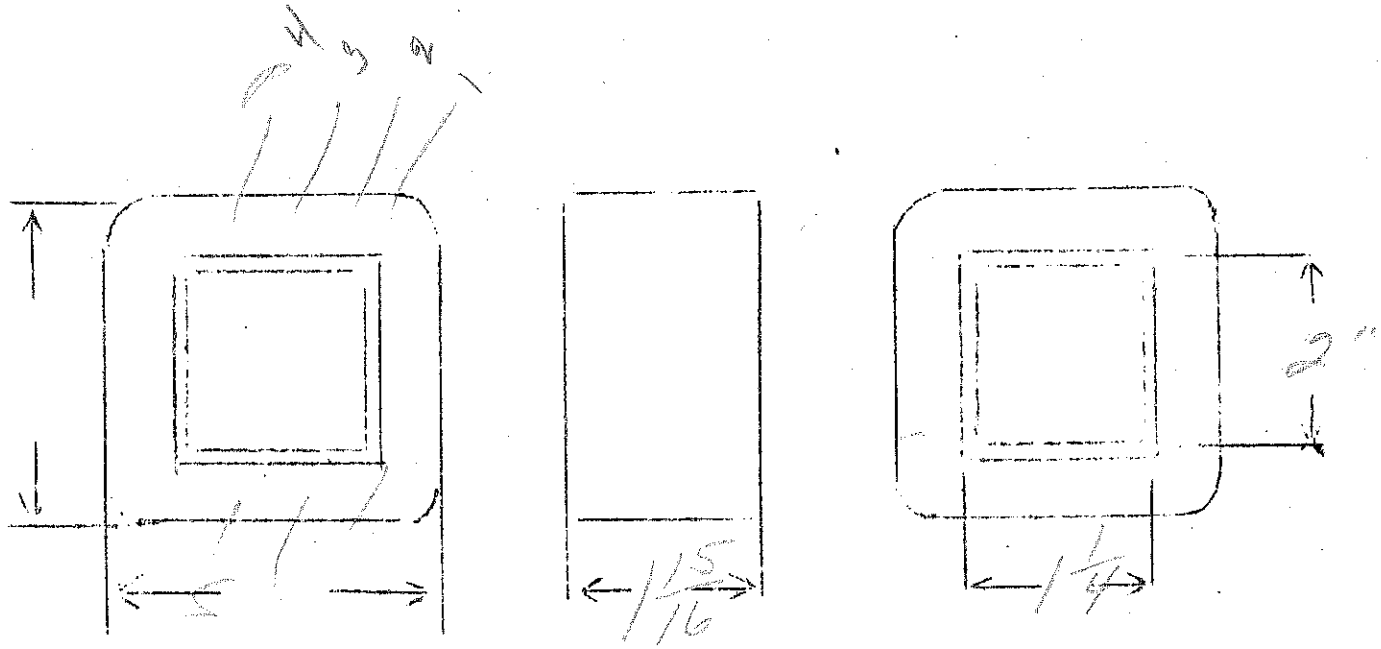
E_s = 30V - 10 amps.

SPEC. NO. 1228

Winding	PRI	SEC					
Turns	281	57					
Taps	269 258	25					
Wind. Lgth.	1.75	1.75					
Wire Size	#18	#13					
T.P.L.	8 layers	4 layers					
Kind Term.	Cuivre only						
Term. Lgth.	6"	6"					
Layer Insul.	10 5 6A						
Wrapper	2 layers 6A	5 layers 6A					

TUBE | 2007 | IMPREGNATION | VARNISH

CURE | 1 1/4 x 2 1/2"



$E_p = 115V$

$E_s = 25V$ – 2 amps

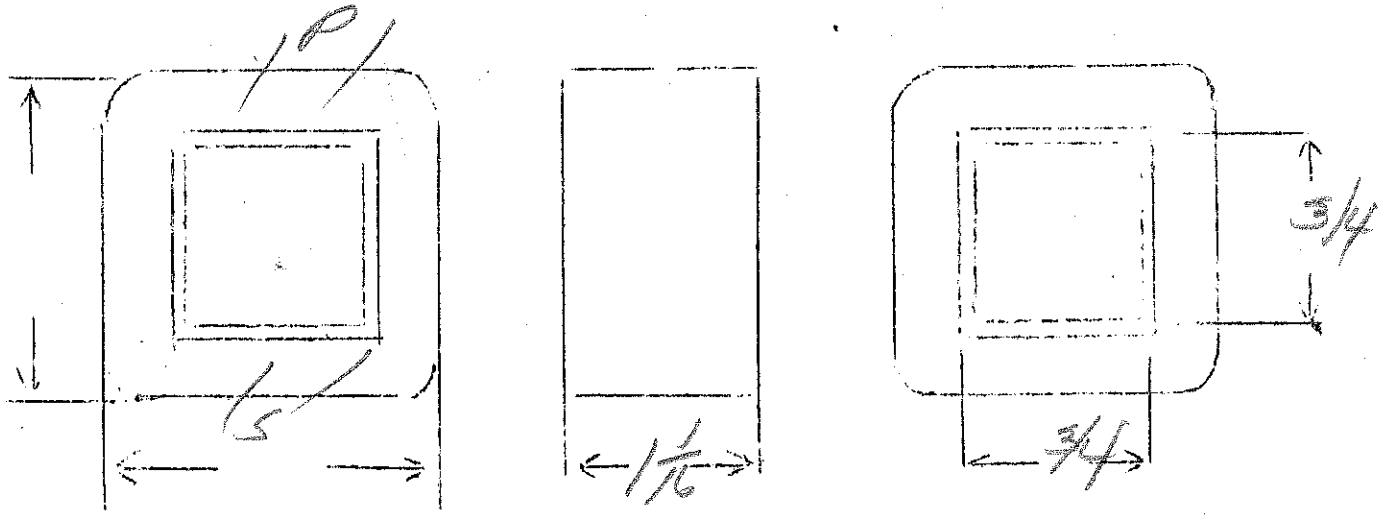
$\frac{N}{E} = 10.5$

SPEC. NO. 12.29

Winding	PRI	SEC					
Turns	1200	29					
Taps	—	15					
Wind. Lgth.	7/8	7/8					
Wire Size	#33E	#20E					
T.P.L.	101-12	2 layers					
Kind Term.	cut to	twist					
Term. Lgth.	3"	3"					
Layer Insul.	30#	—					
Wrapper	2 wds 6A	2 wds 6A					

TUBE | 4L007 | IMPREGNATION | VARNISH

CURE | 3/4 x 3/4 – 260 2X2



$E_p = 115V$

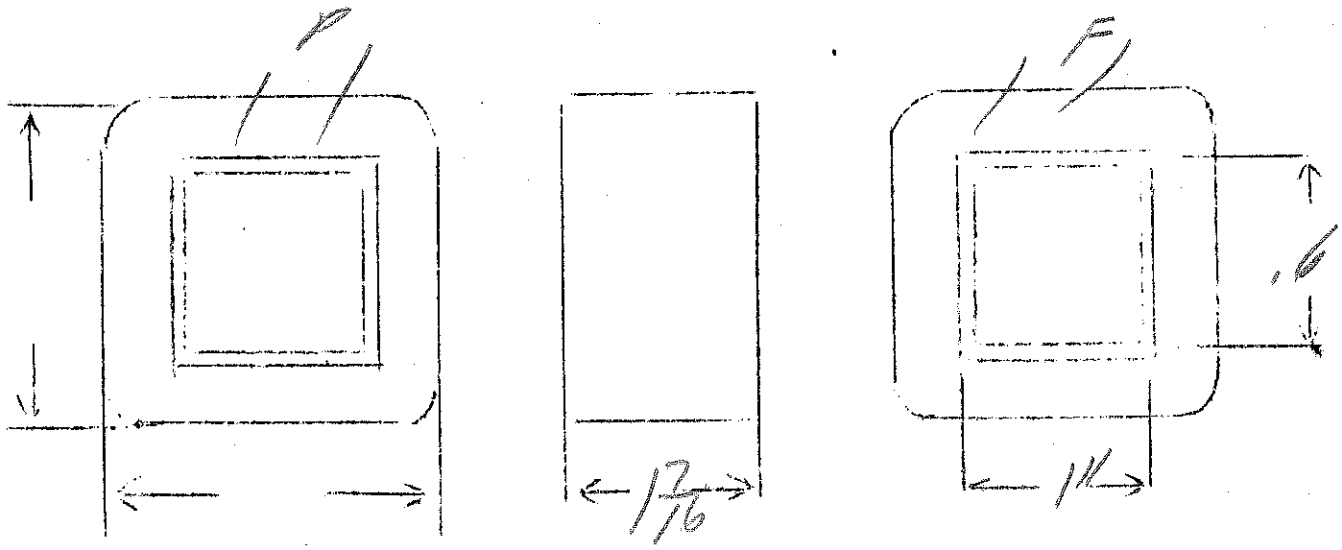
$E_s = 25V$ 6 amps

$\frac{N}{E} = 9.1$

SPEC. NO. 1230

Winding	PRI	SEC					
Turns	1050	25					
Taps	—	12					
Wind. Lgth.	1.25	1.25					
Wire Size	#29	#15					
T.P.L.	90-12	—					
Kind Term.	Twist only						
Term. Lgth.	3"	3"					
Layer Insul.	3 ~~#~~						
Wrapper	JL0056A	JL0056A					

TUBE	4L007	IMPREGNATION	VARNISH
CURE	1 x 6. 2 hr		



$E_p = 115V.$

$E_s = 2.5V - 12 amps$

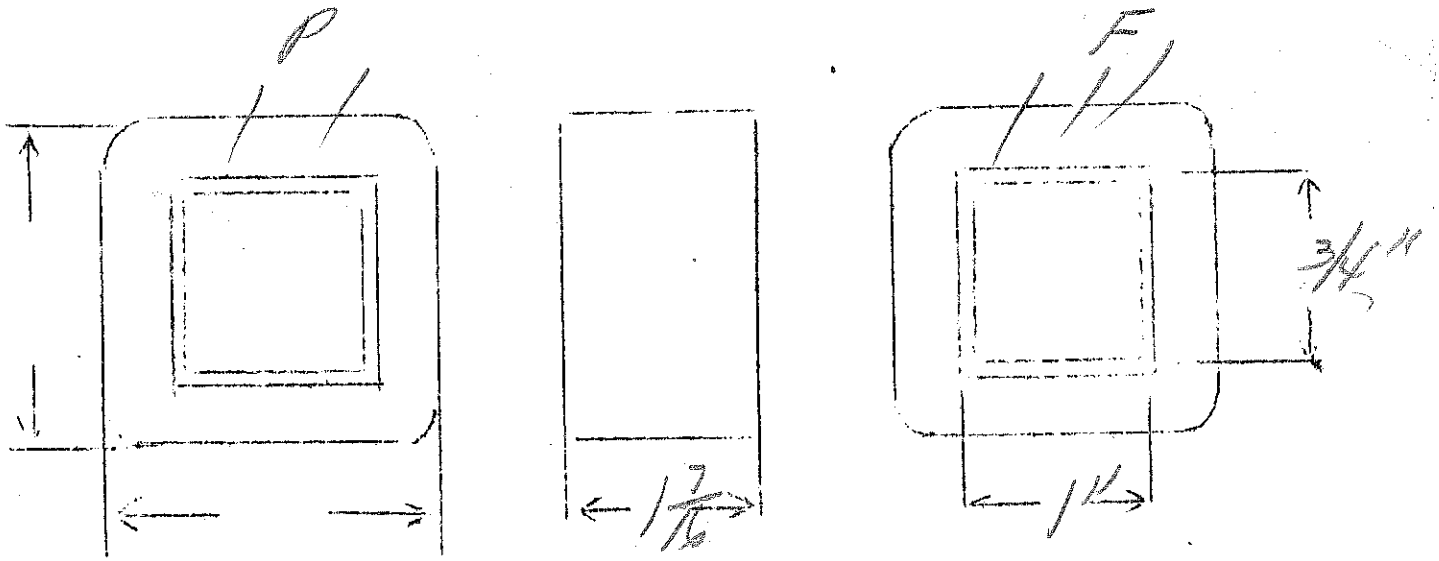
$\frac{N}{E} = 7.5$

SPEC. NO. 1231

Winding	PRI	SEC					
Turns	840	20					
Taps	—	10					
Wind. Lgth.	1.25	1.25					
Wire Size	#28	#12					
T.P.L.	78-11	—					
Kind Term.	wire only						
Term. Lgth.	3"	3"					
Layer Insul.	3#	—					
Wrapper	2L0056A	2L0056A					

TUBE | 4L007 | IMPREGNATION | VARNISH

CURE | 1 X 3/4 NW



$E_p = 115V$

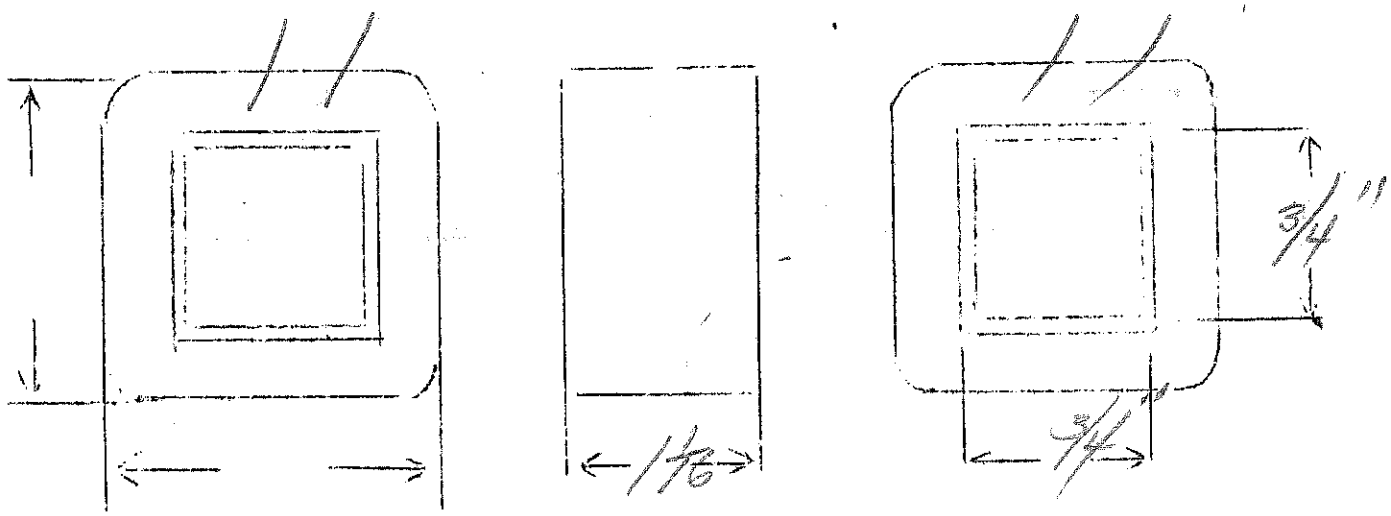
$E_s = 6.3V$ - lamp

SPEC. NO. 1232

Winding	PRI	SEC					
Turns	1200	72					
Taps	—	36					
Wind. Lgth.	7/8	7/8					
Wire Size	33	22					
T.P.L.	10/-12						
Kind Term.	rib Bk	wire only					
Term. Lgth.	3"	3"					
Layer Insul.	3 M						
Wrapper	2L6056A	2L6056A					

TUBE | 4L007 | IMPREGNATION | VARNISH

CURE | 3/4 X 3/4 - 260 2 X 2



$E_p = 115$

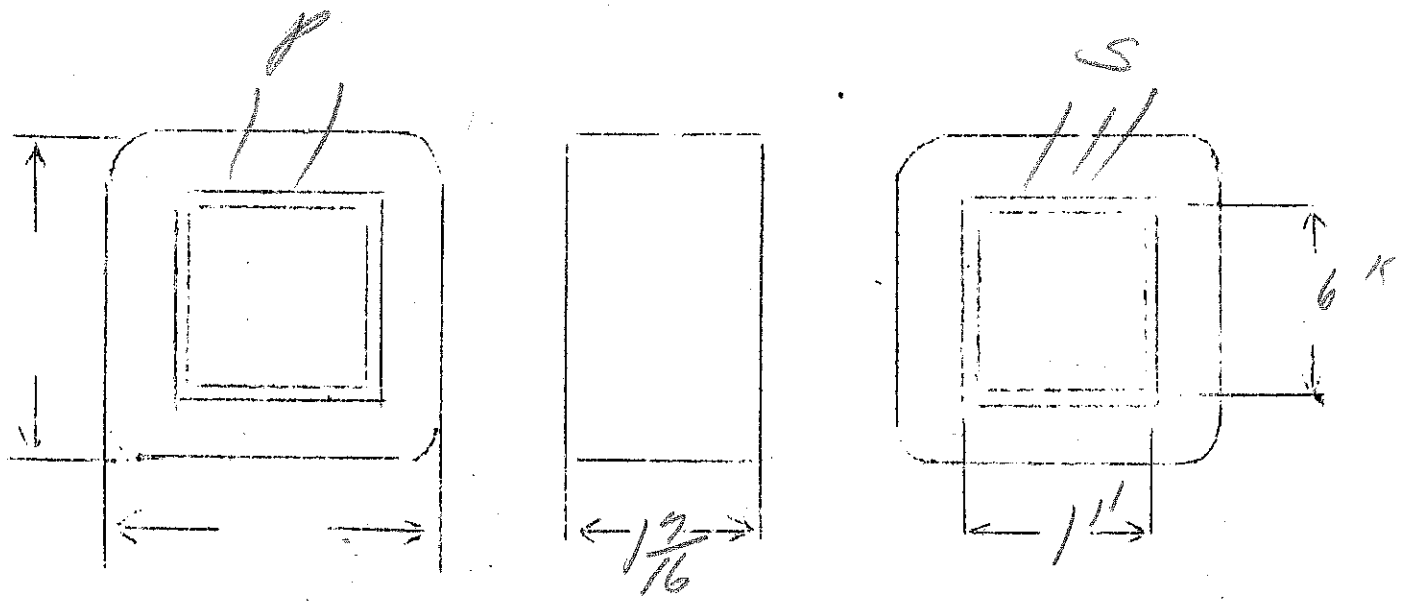
$E_s = 6.3V - 3$ amps

SPEC. NO. 1233

Winding	P	S					
Turns	1050	63					
Taps	—	32					
Wind. Lgth.	1.25	1.25					
Wire Size	#29	#18					
T.P.L.	90-12	—					
Kind Term.	WIRE ONLY						
Term. Lgth.	3	3					
Layer Insul.	3 mil	—					
Wrapper	2L005GA	2L005GA					

TUBE | 4W07 | IMPREGNATION | VARNISH

CURE | 1X-6 NW



E_p = 118 V

E_s = 820 VCT — 100 ma

E_{F_1} = 5 V — 2 amps

E_{F_2} = 6.3 V — 3.5 amps CT

$\frac{N}{E}$ = 4.44

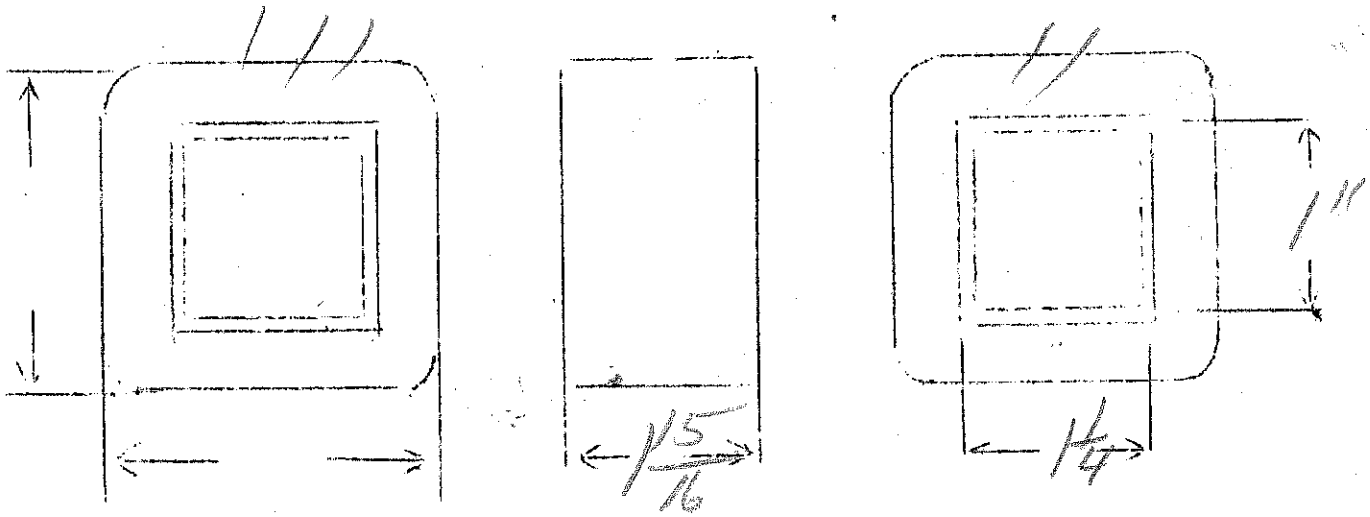
Thermalloy

SPEC. NO. 1234

Winding	SEC	SHIELD	PRI	F_1	F_2		
Turns	4000	205	525	24	31		
Taps	2000	—	—	—	—		
Wind. Lgth.	1.75"	1.75"	1.75"	—	—		
Wire Size	#33E	#33E	#22E	#20E	#18E		
T.P.L.	205-20	205-1	59-9	—	—		
Kind Term.	#20 PBr	#20 PBr	#20 PBr	WIRE ONLY			
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	35#	—	50#	—	—		
Wrapper	2L007VC	1L007VC	2Lm76A	2Lm76A	2Lm76A		

TUBE | 7L007 | IMPREGNATION | VARNISH

CURE | 1 ½ X 1"



Ampleco

1-56
1-245
2-46 Chassis
1-83

$E_p = 115V$
$E_s = 850V - 225MA$
$E_{F1} = 5V - 3.5$ amps
$E_{F2} = 2.5V - 3.5$ amps
$E_{F4} = 2.5V - 2.75$ amps

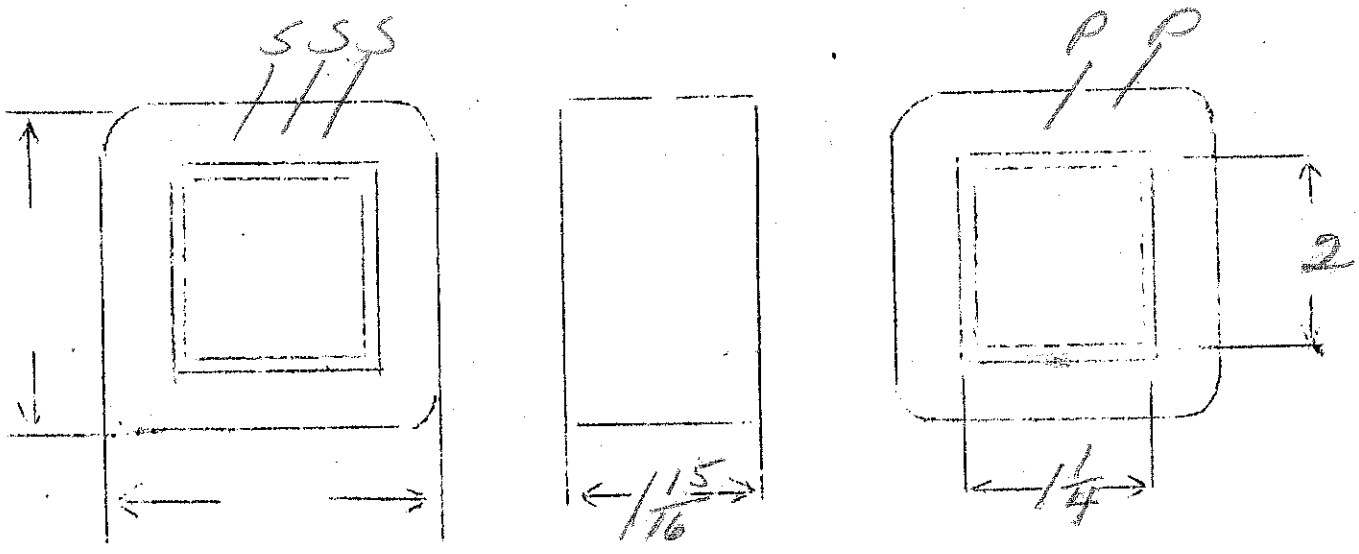
$\frac{V}{E} = 22C$

SPEC. NO. 1235

Winding	SEC	SHIELD	Black PRI	green F1	Yellow F2	F3	
Turns	2050	132	260	13	6	6	
Taps	1025	—	—	—	3		
Wind. Lgth.	1.75	1.75	1.75	—	—	—	
Wire Size	#29	#29	#30	#18	#16	#17	
T.P.L.	132-16	—	6 layers				
Kind Term.	#28 Br	oil Br	#30 Per	WIRE	OUT		
Term. Lgth.	9	3	9	9	9	9	
Layer Insul.	50#		50#				
Wrapper	2L0076C	1L0076C	2L0076A	2L0076A	2L0076A		

TUBE | 2L007 | IMPREGNATION | VARNISH

CURE | 1 1/4 X 2" | 2 X 2



E. V. Rose

E_p = 110 - 115 - 120 - 125

E_s = 1400 - 300 MA

E_F = 20V - 3.25 amps

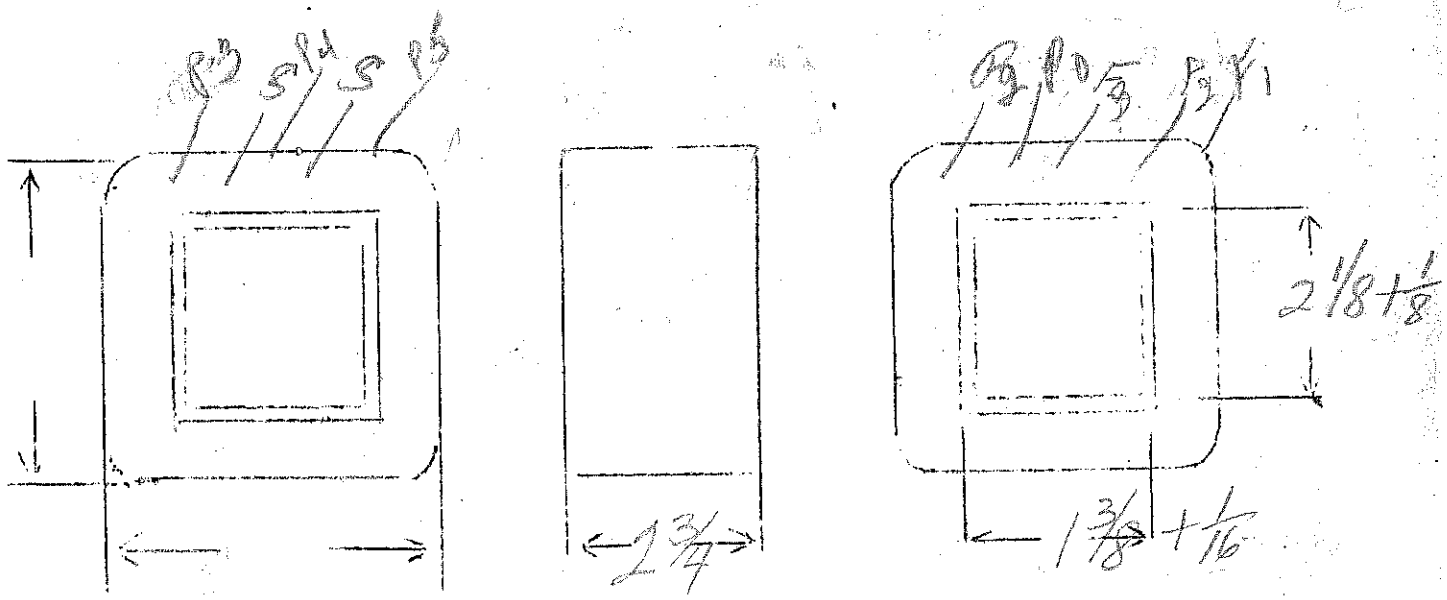
2.4

SPEC. NO. 1236

Winding	SEC	SHIELD	PRI	F			
Turns	3200	148	557 548	45			
Taps	—	—	237 227	22			
Wind. Lgth.	2 3/8	2 3/8	2 3/8				
Wire Size	#27	#27	#35	#17			
T.P.L.	148-22	148-1	38-7	1K			
Kind Term.	WIRE	ONLY					
Term. Lgth.	6"	6"	6"	6"			
Layer Insul.	50#		.005 GA				
Wrapper	2L005GA	2L005GA	2L005GA	2L005GA			

TUBE | 10L007 HLOD 2L | IMPREGNATION | VARNISH

CURE | 1 3/8 x 2 1/8"



E. L. Rose

$E_p = 115$ V $\frac{E}{E} = 5.1$

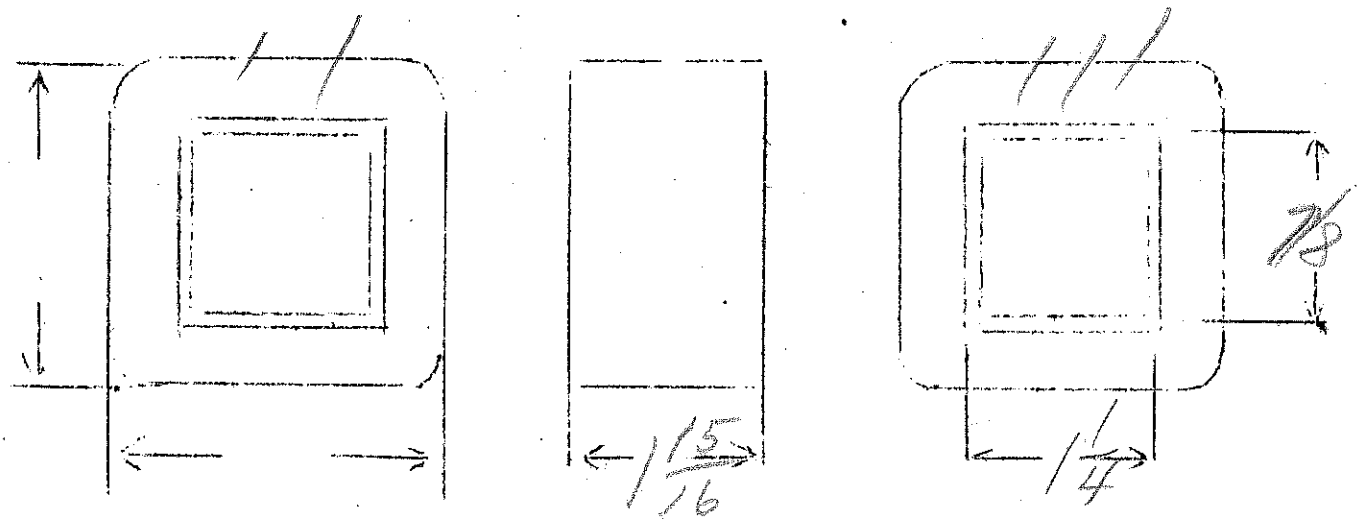
$E_s = 10$ V - 6.5 amps for 2-2.5 V

SPEC. NO. 1237

Winding	P	S					
Turns	585	56					
Taps	—	28					
Wind. Lgth.	1.75	1.75					
Wire Size	#23	#14					
T.P.L.	66-9	32					
Kind Term.	WIRE	over					
Term. Lgth.	3"	3"					
Layer Insul.	50#	.005					
Wrapper	2 wds 709	2 wds 709					

TUBE | 2 wds 709 | IMPREGNATION | VARNISH

CURE | 1 hr @ 70



meter transformer — 4.17 V at 100 mA sec

Pri - 4, 8, 16, 24, 40, 80, 160, 400, 800, 1600

$\frac{N}{E}$ =

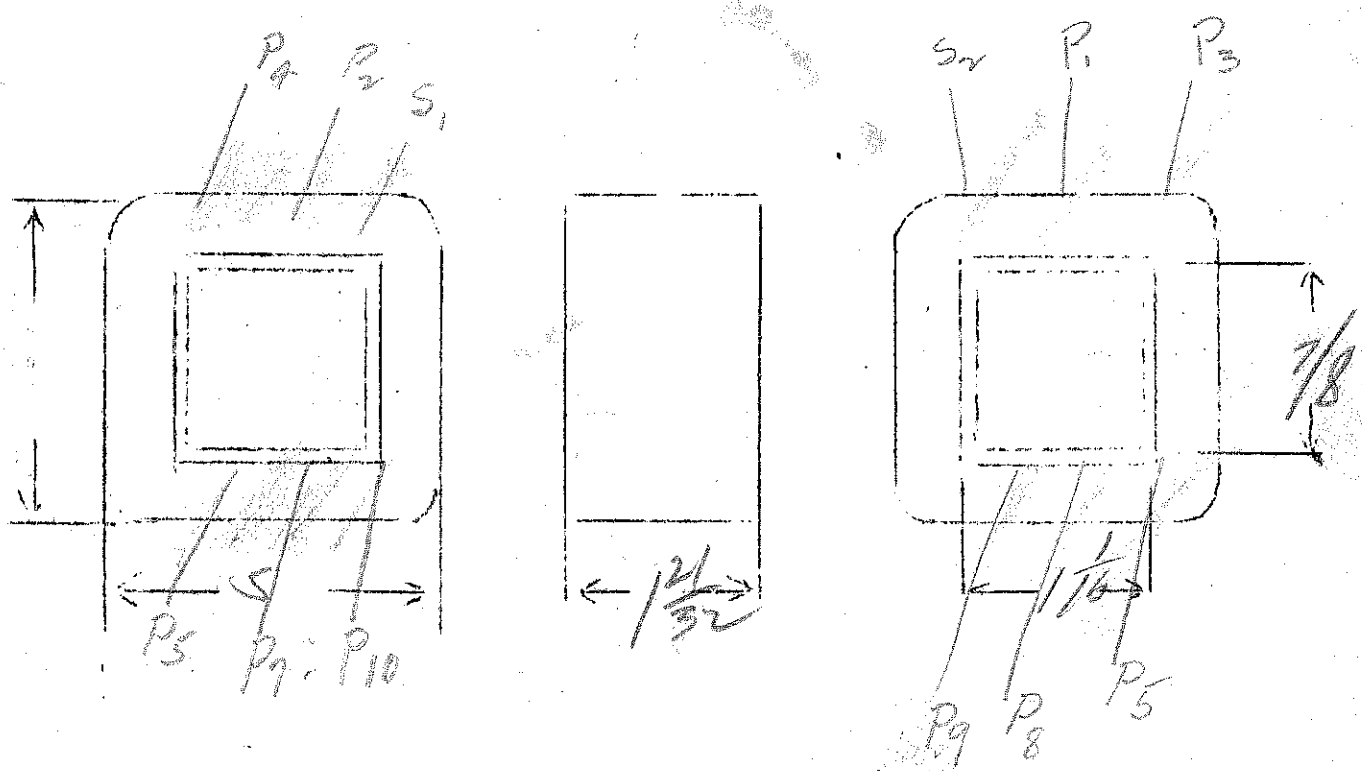
SPEC. NO. 1238

Continued

Winding	SEC	Pri					
Turns	24	56	222	837	4445		
Taps	—	28	111 56	278	1665		
Wind. Lgth.	115/32	115/32					
Wire Size	#24E	#24E	#29	#34	#37		
T.P.L.	62	62	112	190	270		
Kind Term.	wire only			oil proof			
Term. Lgth.	3	3	3	3	3		
Layer Insul.			30#	20#	30# 1 Coat VC 2 Coats EA		
Wrapper	2 Coats VC						

TUBE 4L007 | IMPREGNATION VARNISH

CURE 1 1/16 x 7/8



Packard Bell
oel 275

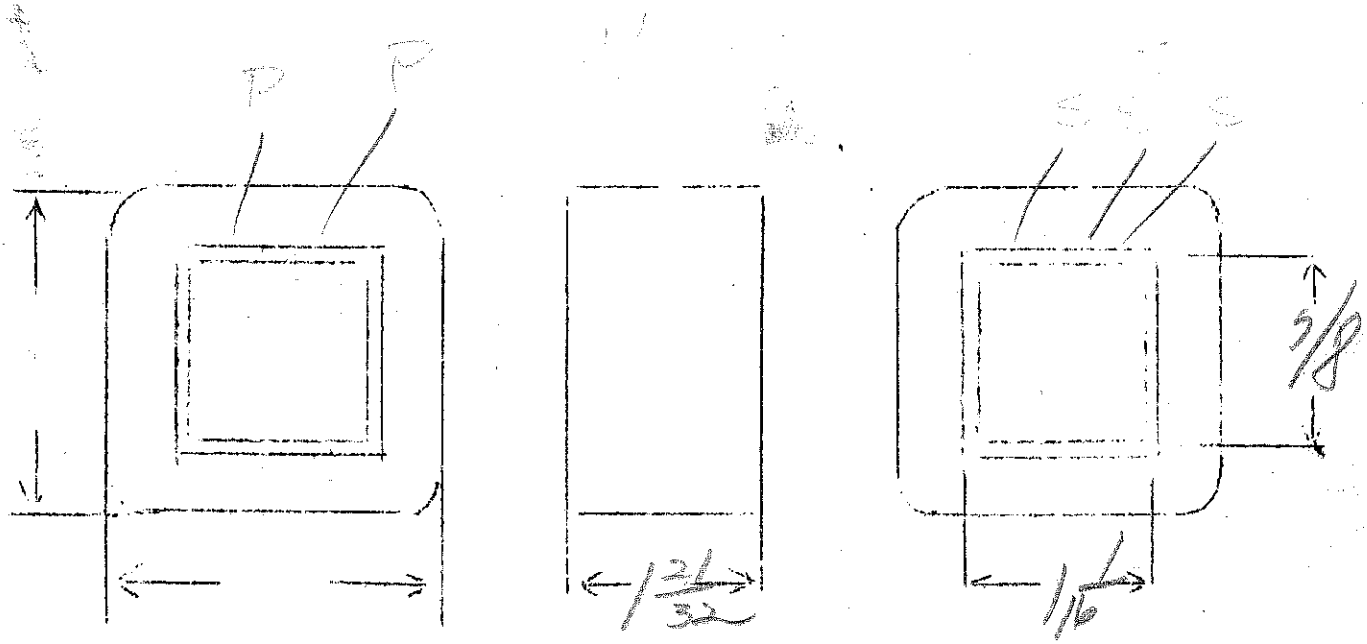
flux density 12800 lines/sq. in.

SPEC. NO. 1239

Winding	PRI	SHIELD	SEC	F1	F2		
Turns	670	67	4000	32	40		
Taps	—	—	2000	—	—		
Wind. Lgth.	1 5/32	1 5/32	1 5/32	—	—		
Wire Size	#25	#25	#35	#20	#19		
T.P.L.	68-10	68	202	—	—		
Kind Term.	#20 Pbd	wire	#20 Pbd	WIRE ONLY			
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	3 0 #	—	3 0 #	—	—		
Wrapper	Kraft VC	Kraft VC		2 Layers GA			

TUBE | 4007 | IMPREGNATION | VARNISH

CURE | 1 1/16 x 7/8



$E_p = 115V$

$E_S = 700VCT - 70ma$ $\quad \frac{N}{E} = 3.85$

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

$E_{F_2} = 2.5V - 8amps$

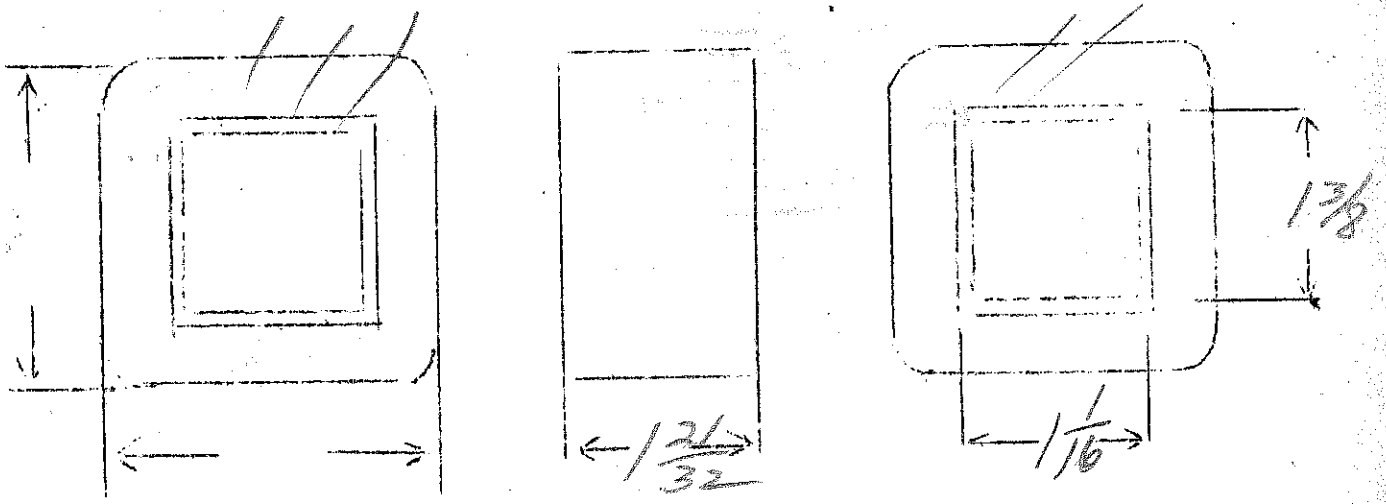
$E_{F_3} = 6.3V - 3amps$

SPEC. NO. 1240

Winding	SEC	SHIELD	PRI	F1	F2	F3	
Turns	2960	190	445	21	11	27	
Taps	1480	—	—	—	6	13	
Wind. Lgth.	$1\frac{5}{32}$	$1\frac{5}{32}$	$1\frac{5}{32}$	—	—	—	
Wire Size	#34	#34	#23	#18	~~#16~~ #17	18	
T.P.L.	190 16	190	56-8				
Kind Term.		lug	mounting				
Term. Lgth.	3"	—	—	—	—	—	
Layer Insul.	3 mil	—	5 mil	—	—	—	
Wrapper	2 turns	2 turns	2 turns	2 turns	2 turns	2 turns	

TUBE | 72007 | IMPREGNATION | VARNISH

CURE | $1\frac{1}{16} \times 1\frac{3}{8}$



mil

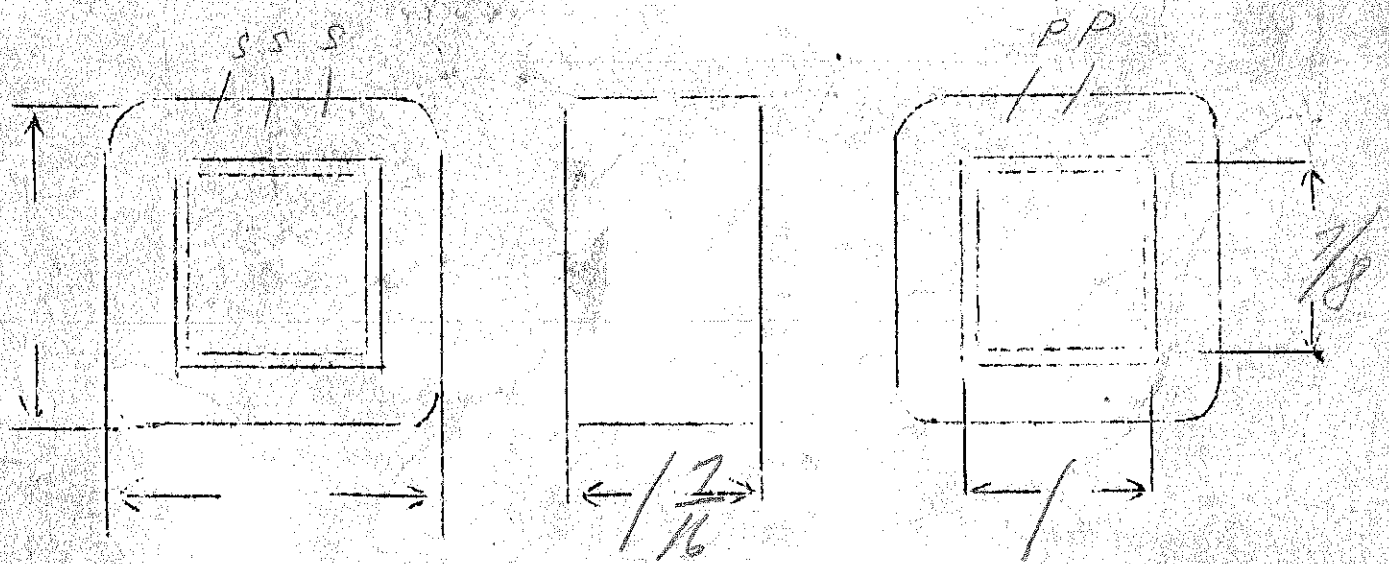
4 tube

at Linton $\frac{N}{E} = 5.185$

SPEC. NO. 1241

Winding	PRI	SHIELD	SEC	F_1	F_2		
Turns	204	77	4000	33	16		
Taps	—	—	2000	—	—		
Wind. Lgth.	1.25	1.25	1.25	—	—		
Wire Size	#27	#27	#37	#21	#18		
T.P.L.	72-10	77	225-19	—	—		
Kind Term.	WIRE ONLY		20 ga	WIRE ONLY			
Term. Lgth.	3"	3"	3"	3"	3"		
Layer Insul.	30 #		30 #				
Wrapper	1 Mils V.P.	1 Mils V.C.	2 Mils C.P.	2 Mils C.P.	2 Mils C.P.		

TUBE	4L007	IMPREGNATION	VARNISH
CURE	1 x 3/8 NW		



Millard

$E_b = 115V$

$E_S = 6.5V$ = 12 amps

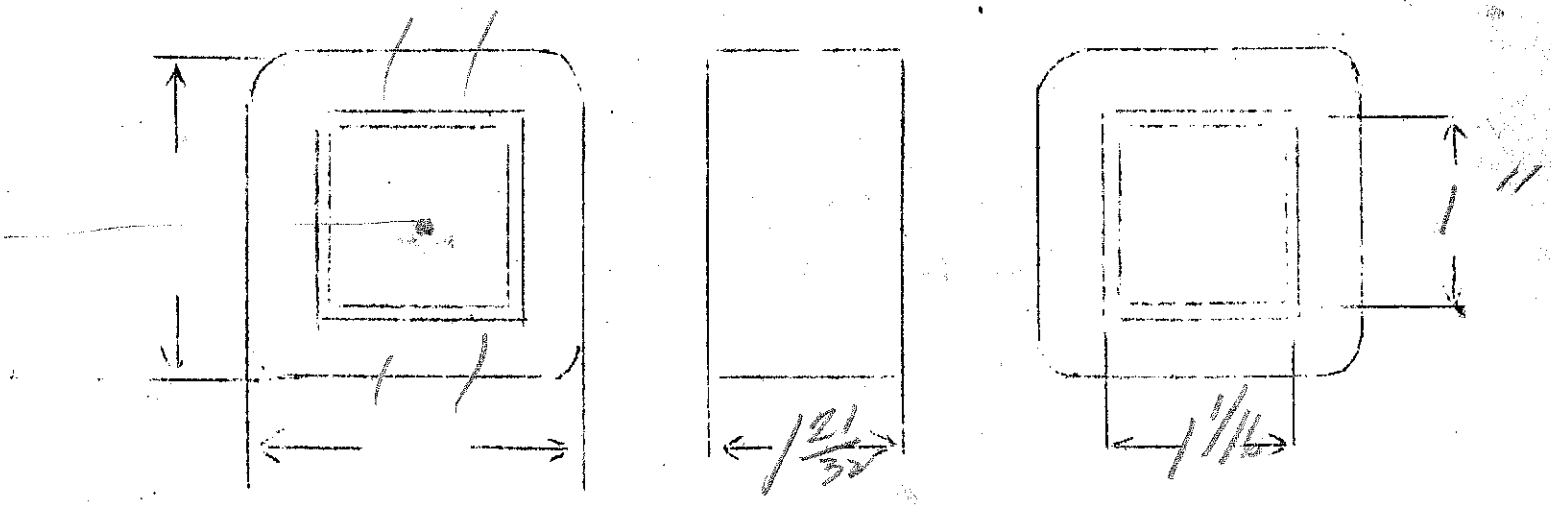
$\frac{N}{E} = 5.3$

SPEC. NO. 1242

Winding	PRI	SEC					
Turns	610	37					
Taps	—	—					
Wind. Lgth.	1 5/32						
Wire Size	#23	#~~Double~~ 1.5					
T.P.L.	56-11	4.8					
Kind Term.	#14 Braid						
Term. Lgth.	6"	6"					
Layer Insul.	50#	Kraft					
Wrapper	2 Layers	2 Layers					

TUBE	4L00D	IMPREGNATION	VARNISH
CURE	1 1/2 x 1"		

Leads out side by side



E_p = 115 V VA = 15

E_s = 6.4 V - 3 amp. CT $\frac{N}{E}$ = 8.9

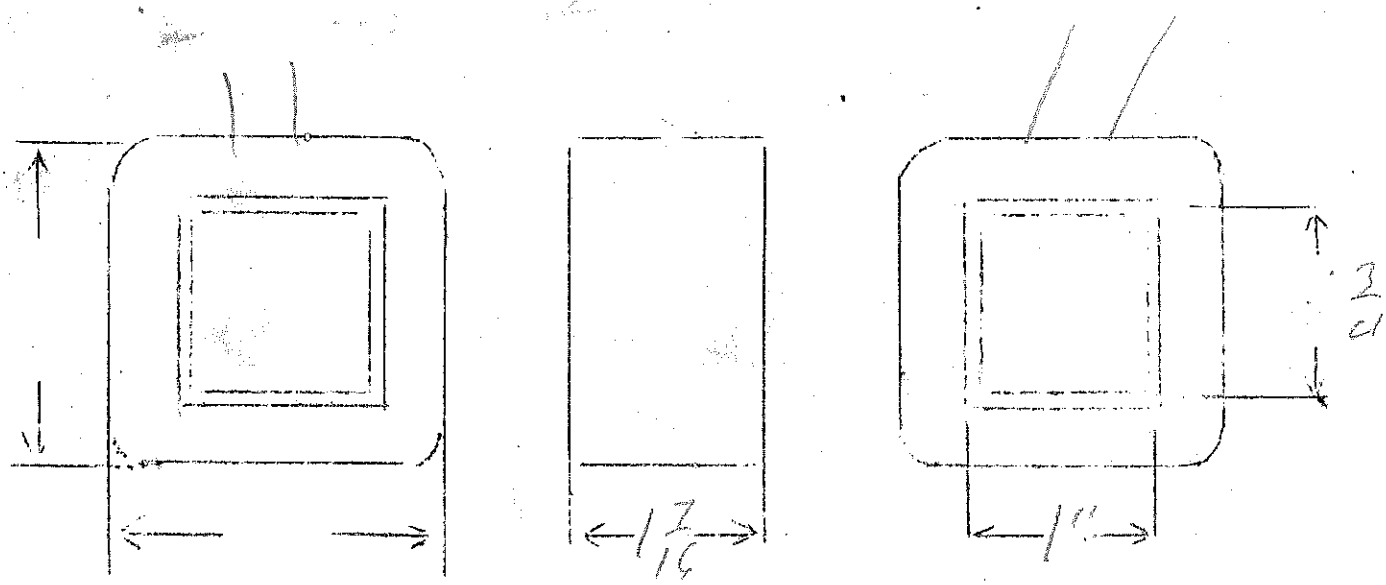
SPEC. NO. 1293

Put 1400

Winding	PRI	F					
Turns	900	44					
Taps	NONE	22					
Wind. Lgth.	1.25	—					
Wire Size	#30E	#18E					
T.P.L.	97-10	—					
Kind Term.	LUG	LUG					
Term. Lgth.	WIRE	#MLX					
Layer Insul.	#30	.005GA.					
Wrapper	2L005GA	2L005GA					

TUBE | AL007 | IMPREGNATION | VARNISH

CURE | 1 x 3/4 NW



$E_p = 115$
$E_S = 880$ V.C.T.

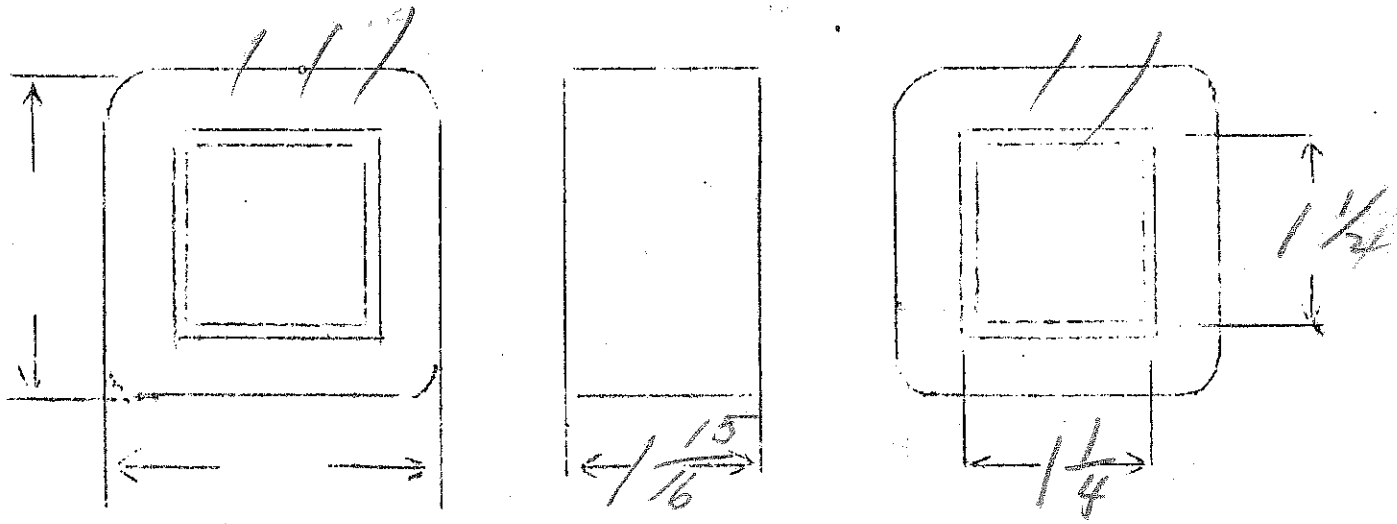
$\frac{N}{E} = 3.1$

SPEC. NO. 1244

Winding	SEC	PRI					
Turns	2700	356					
Taps	1350	—					
Wind. Lgth.	1.75	1.75					
Wire Size	#28	#20					
T.P.L.	123-22	48-8					
Kind Term.	~~#28~~	WIRE ONLY					
Term. Lgth.	9"	9"					
Layer Insul.	30#	60#					
Wrapper	Manila	2 Lo 560					

TUBE | 2L007 | IMPREGNATION | VARNISH

CURE | 1 Hr x 1½



$E_p = 115V$

$E_{S_1} = 5V - 3amps$

$E_{S_2} = 2.5V - 5amp$

$E_{S_3} = 2.5V - 5amp$

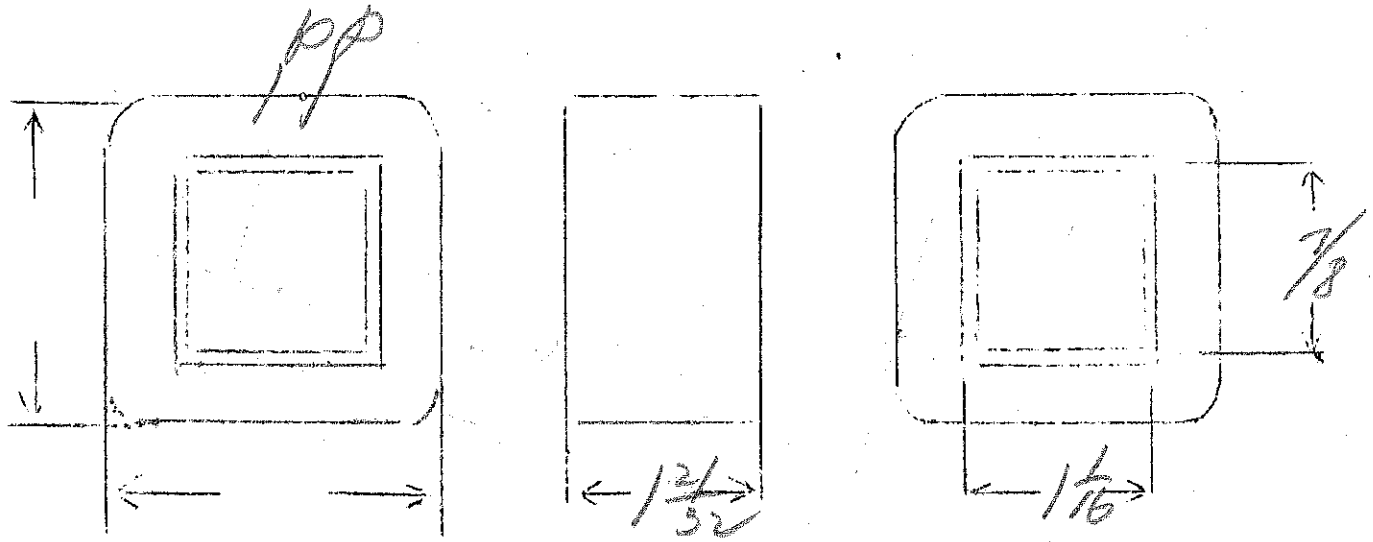
$\frac{N}{E} = 5.75$

SPEC. NO. 1245

Winding	PRI	F_1	F_2	F_3			
Turns	660	32	16	16			
Taps	—	—	8	8			
Wind. Lgth.	$1\frac{5}{32}$	—	—	—			
Wire Size	#25	#18	#16	#16			
T.P.L.	67-10	—	—	—			
Kind Term.	#22	WIRE ONLY					
Term. Lgth.	9"	9"	9"	9"			
Layer Insul.	30#	—	—				
Wrapper	2Lm56A	2Lm56A	2Lm56A	2Lm56A			

TUBE | #L007 | IMPREGNATION | VARNISH

CURE | $1\frac{1}{16} \times \frac{7}{8}$



$E_p = 115V$

$E_s = 425$ V.C.T. - 85 Ma

$E_{F1} = 5V - 2$ amp
or
$2.5V - 3$ amp

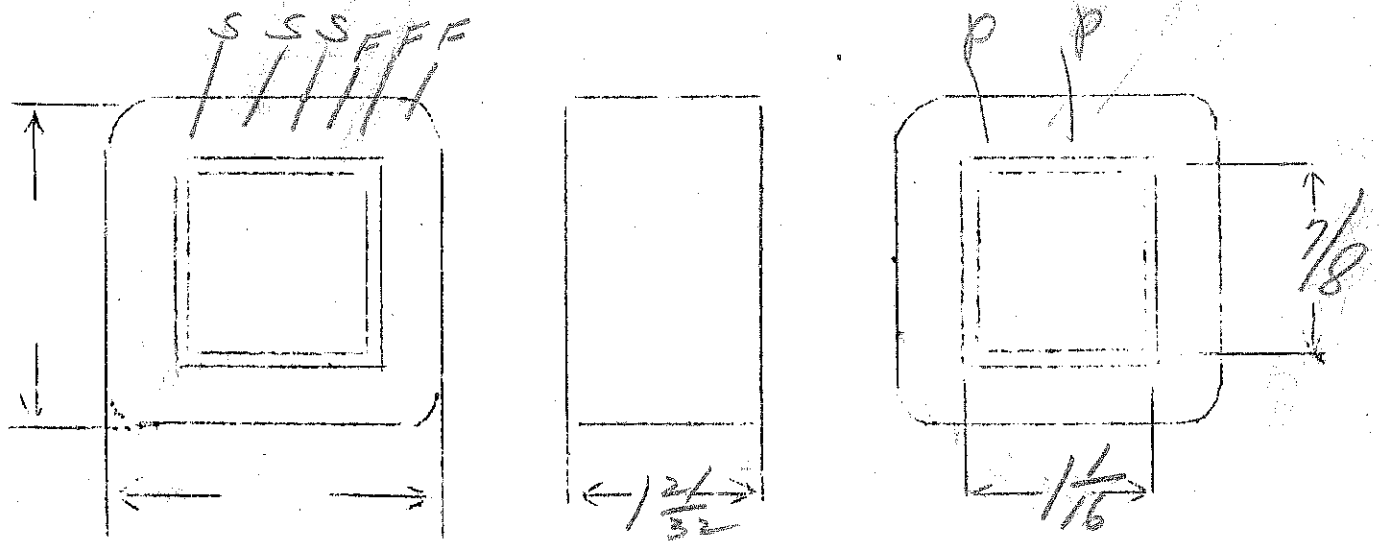
$\frac{N}{E} = .595$

SPEC. NO. 1246

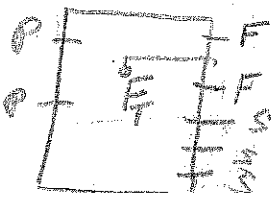
Winding	SEC	SHIELD	PRI	F_1			
Turns	2800	176	685	34			
Taps	1400	—	—	17			
Wind. Lgth.	$\frac{15}{32}$	$\frac{15}{32}$	$\frac{15}{32}$	—			
Wire Size	#33	#33	#26	#18			
T.P.L.	176-16	176	77-9	—			
Kind Term.	sil braid		WIRE	WIRE			
Term. Lgth.	3" double	3"	3"	3"			
Layer Insul.	~~2 mil~~	—	~~30 mil~~	—			
Wrapper	1L007W	1L007W	2L005A	2L005A			

TUBE | 1L007 | IMPREGNATION | VARNISH

CURE | $1\frac{1}{16} \times \frac{7}{8}$ NW



Special Panel (under Wrapper)



E_p = 110-120

E_s = 750V C.T. - 90MA

E_{F_1} = 2.5V - 3 amps

E_{F_2} = 6.3V - 3.5 amps CT

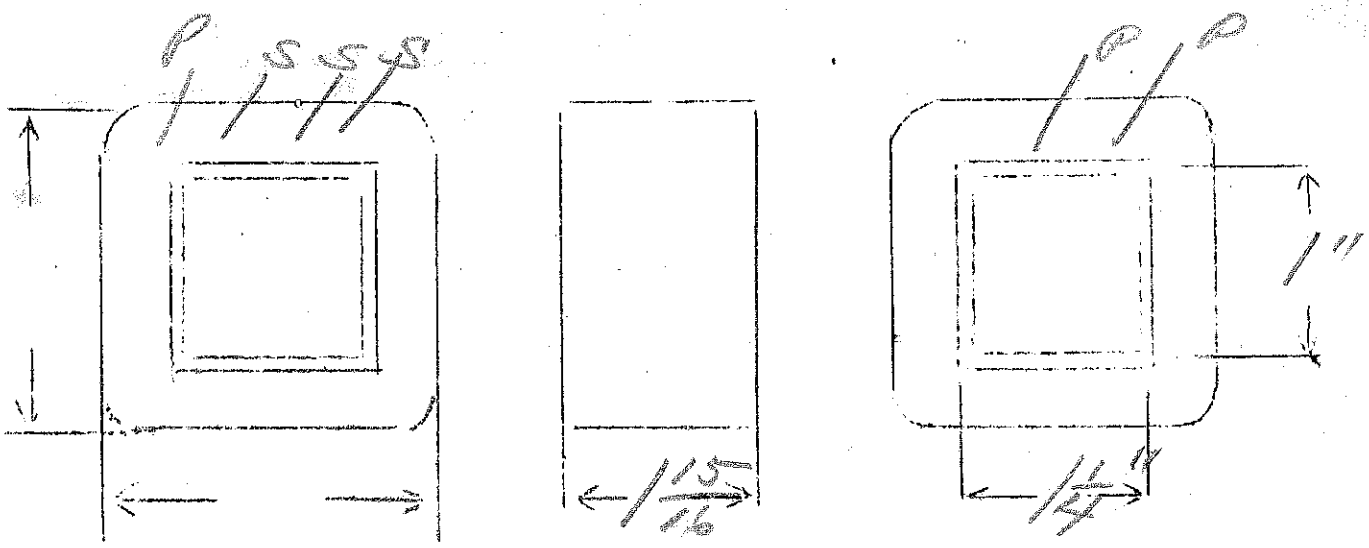
$\frac{N}{E}$ = 4.45

SPEC. NO. 1247

Winding	SEC	SHIELD	PRI	F_1	F_2		
Turns	3450	216	534	12	31		
Taps	1725	—	490	—	15		
Wind. Lgth.	1.75	1.75	1.75	—	—		
Wire Size	#33	#33	#23	#18	#18		
T.P.L.	216-16	216	10-8	—	—		
Kind Term.	#30 PBr	sil Br	#28 PBr	wire out			
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	30#	—	50#	—	—		
Wrapper	1L007K	1L007K	2L007K	2L007K	2L007K		

TUBE | 2L007 | IMPREGNATION | VARNISH

CURE | 1 1/4 x 1"



Potentiometer

110v - black

120v - yellow

E_p = 110-125V POWER TRANSFORMER REMLER CO.

E_s = 150V - 125 Ma

E_{F_1} = 5V - 3 amps C.T.

E_{F_2} = 2.5V - 5 amps

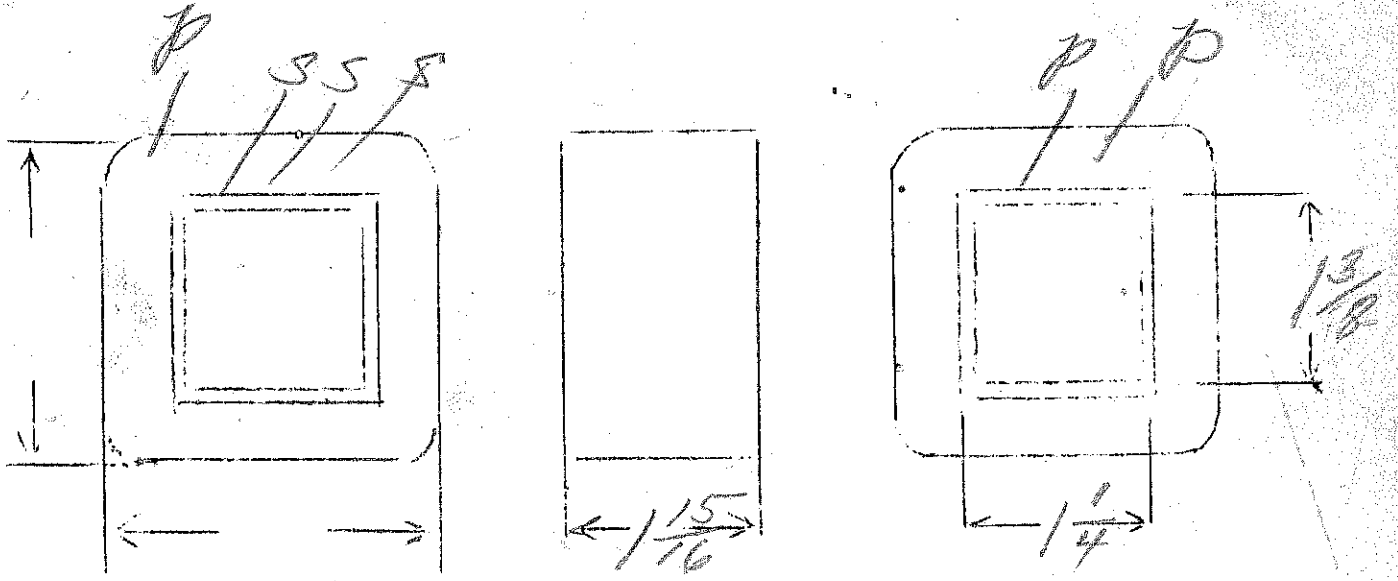
E_{F_3} = 6.3V - 5 amps C.T.

$\frac{N}{E}$ = 3.65

SPEC. NO. 1248

Winding	SEC	SHIELD	PRI	F_1	F_2	F_3	
Turns	2940	185	450	30	10	25	
Taps	1470	—	400	10	5	12	
Wind. Lgth.	1.75	1.75	1.95	—	—	—	
Wire Size	#32E	#32E	#22E	#18	#16	#16	
T.P.L.	185-16	185	58-8	—	—	—	
Kind Term.	#20 PBr	Sil Br	#20 PBr	WIRE	ONLY		
Term. Lgth.	9"	8"	9"	9"	9"	9"	
Layer Insul.	double 20#	—	50#	—	—	—	
Wrapper	2L007K	2L007K	2LA056A	2LA056A	2LA056A	2LA056A	

TUBE	2L007	IMPREGNATION	VARNISH
CURE	1 1/4 x 1 3/8		



E_p = 110-115-120

$E_{s_1} = E_{s_2}$ = 20v - tap at 18v - 10 amps

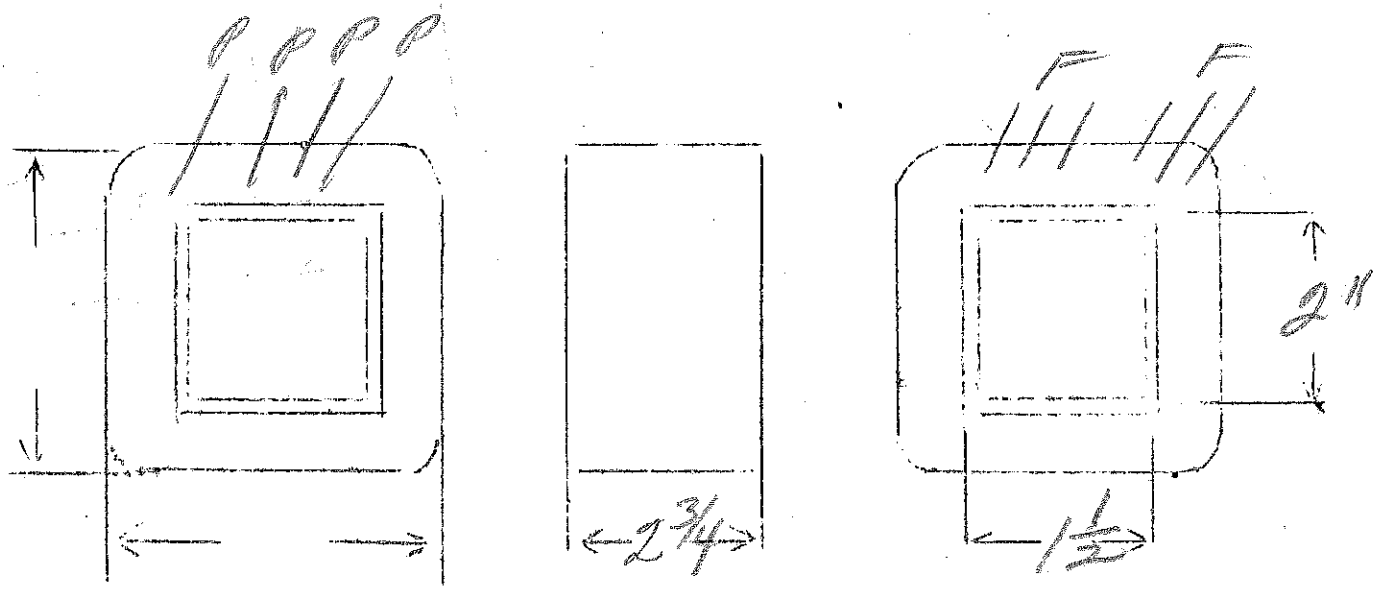
440 watts

E-2 SPEC. NO. 1249

Winding	P.P.	F1	F2				
Turns	240 230	44	44				
Taps	220	40	40				
Wind. Lgth.	2½	2½					
Wire Size	#15	#13	#13				
T.P.L.	6 layers						
Kind Term.	WIRE	AWG					
Term. Lgth.	8"	8"	8"				
Layer Insul.	.005 GA						
Wrapper	2L050A	2L050A					

TUBE | 9L007 | IMPREGNATION | VARNISH

CURE | 1½ X 3"



SEVEN TUBE

E_p = 115V

E_{s_1} = 700V C.T. - 50 MA

E_{F_1} = 5V - 2 amps

E_{F_2} = 6.3V - 2.1 amps C.T.

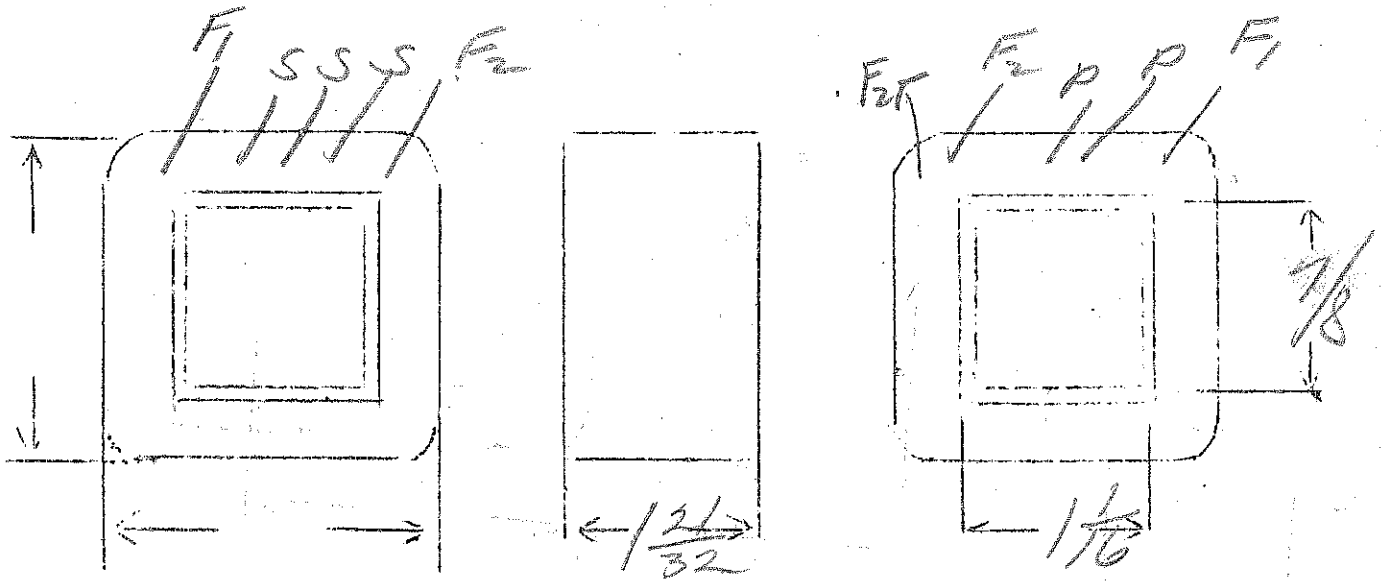
$\frac{N}{E}$ = 5.85

SPEC. NO. 1250

Winding	SEC	SHIELD	PRI	F_1	F_2		
Turns	4400	68	675	33	41		
Taps	2200	—	—	—	20		
Wind. Lgth.	$\frac{15}{32}$	$\frac{15}{32}$	$\frac{15}{32}$	—	—		
Wire Size	#35	#25	#25	#20	#20		
T.P.L.	222-20	68-1	68-10	—	—		
Kind Term.	#30 P Braid	WIRE	#30 P Braid	W/INSL SLEEVE			
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	30 #		30 #				
Wrapper	2L007C	2L007C	2L007C	2L007C	2L007C		

TUBE | 2L007 | IMPREGNATION | VARNISH

CURE | $\frac{1}{16}$ x $\frac{7}{8}$"



Black case

E_p = 220 V Jester

E_s = 215 V – 30 amps

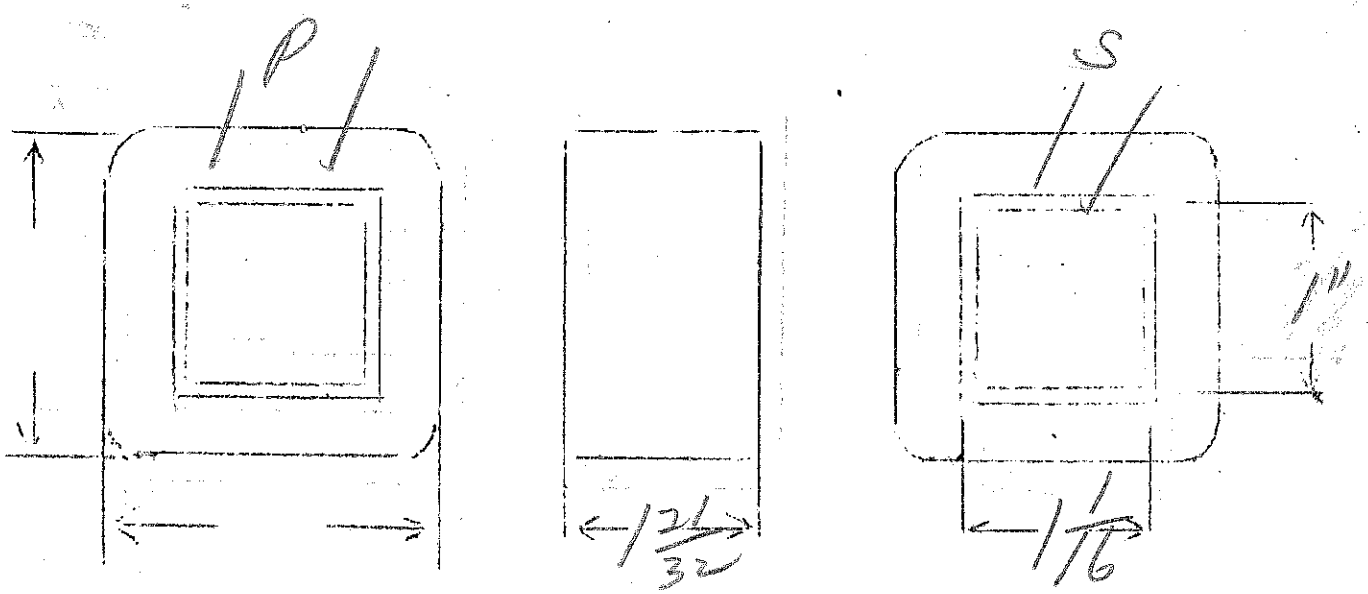
$\frac{N}{E}$ = 5.4

SPEC. NO. 1257

Winding	PRI	SEC				
Turns	1200	15				
Taps	—	—				
Wind. Lgth.	1 15/32	double				
Wire Size	#27	#11 E				
T.P.L.	87-14					
Kind Term.	WIRE	ONLY				
Term. Lgth.	3"	3"				
Layer Insul.	30 #					
Wrapper	3L005 6A	2L005 6A				

TUBE | 3L007 | IMPREGNATION | VARNISH

CURE | 1 5/16 X 7/8"



E_p = 115V

E_{S_1} = 5V - 2 amps

E_{S_2} = 220 V - 10

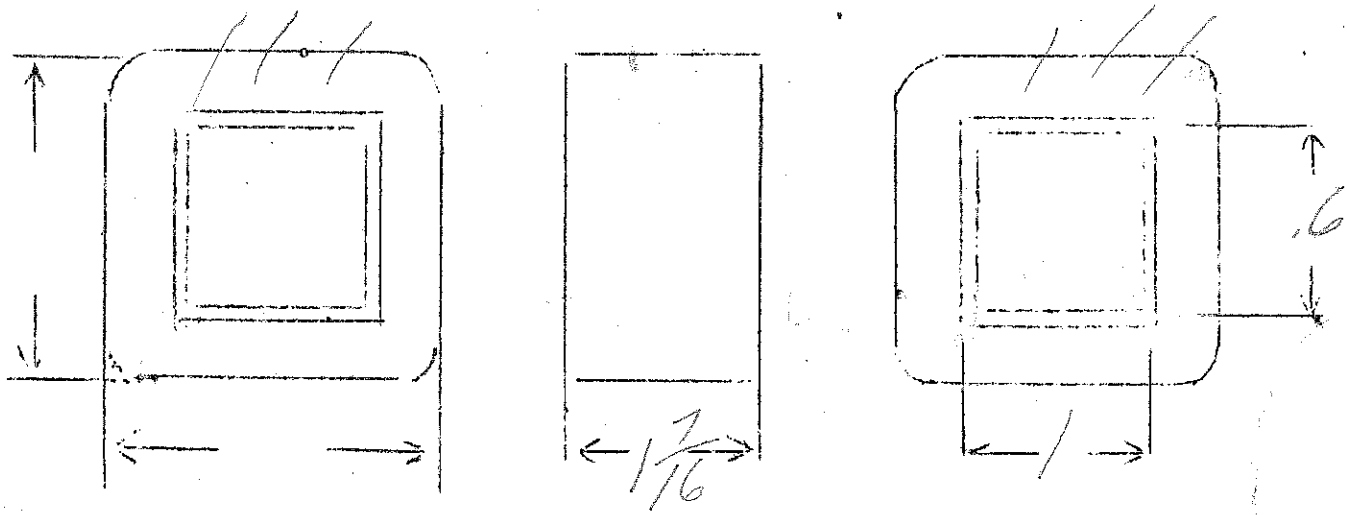
$\frac{N}{E} = 95$

SPEC. NO. 1252

Winding	PRI	SEC	F				
Turns	1090	2180	53				
Taps	—	—	—				
Wind. Lgth.	1.25	1.25	1.25				
Wire Size	#30	#38	#20				
T.P.L.	95-12	274-8					
Kind Term.	WIRE	SOLDER	WIRE				
Term. Lgth.	4"	4"	4"				
Layer Insul.	30	30 #					
Wrapper	KRAFT	2 MIL	2 MIL				

TUBE | 4.00 T | IMPREGNATION | VARNISH

CURE | 1 x 6 NM



$E_p = 115V$

$E_s = 2.5V$ - 4 amps CT — 1500 V Insulation

Drawn #1

VA = 10 $\frac{V}{E} = 7.5$

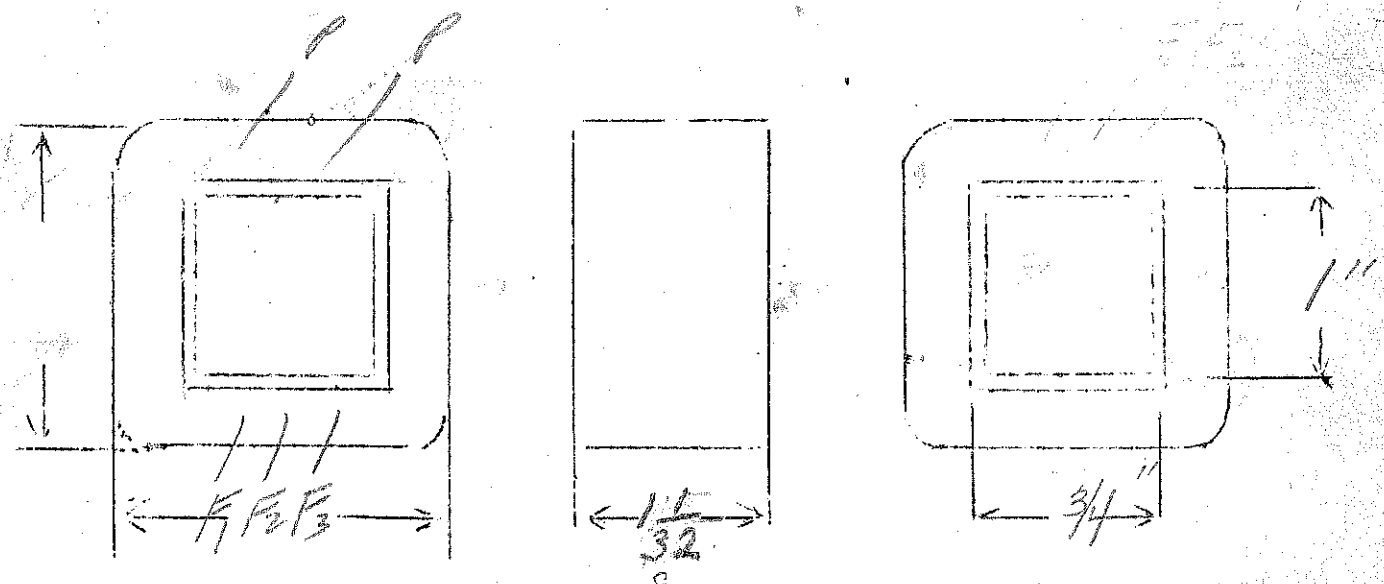
SPEC. NO. 1253

Winding	PRI	SEC					
Turns	865	21					
Taps		10					
Wind. Lgth.	13/16						
Wire Size	#31	Double #30					
T.P.L.	80-11	QL.					
Kind Term.	sil Br	wire only					
Term. Lgth.	3"	3"					
Layer Insul.	30#						
Wrapper	2L0056B	2L0056A					

TUBE | 4L009 | IMPREGNATION | VARNISH

CURE | 3/4 X 1" 260 Sec 2 X 2

"D" MOUNTING



$E_p = 115V$
$E_F = 5V$ e.t. - 4 amps
2500 V Ins.

$\frac{V}{E} = 9.22$

see sheet 10

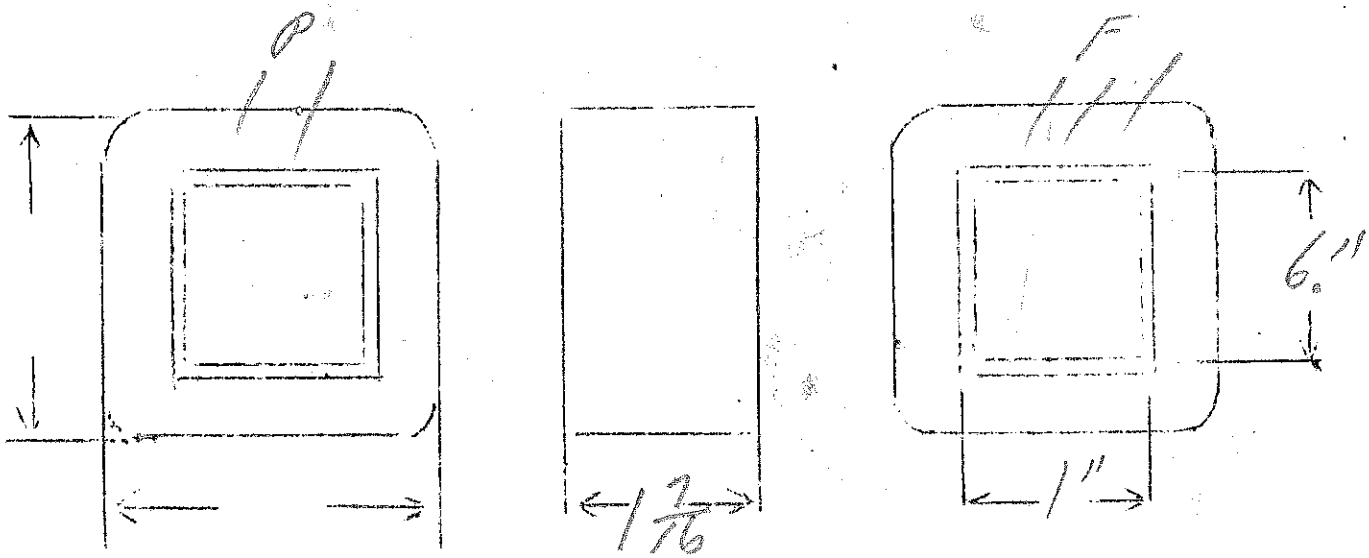
VA = 20

SPEC. NO. 1254

Winding	PRI	FIL					
Turns	1050	52					
Taps	—	26					
Wind. Lgth.	1.25	1.25					
Wire Size	#29	#17					
T.P.L.	90-12	2 Layers					
Kind Term.	WIRE	ONLY					
Term. Lgth.	3"	3"					
Layer Insul.	30#	.005 GA					
Wrapper	2 LAYERS GA	3 LAYERS GA					

TUBE | 4 Layer | IMPREGNATION | VARNISH

CURE | 1 X. 6 NW



VA = 50

E_s = 5V – 10 amp C.T.

$\frac{N}{E}$ = 4.63

10,000 V. Ins.

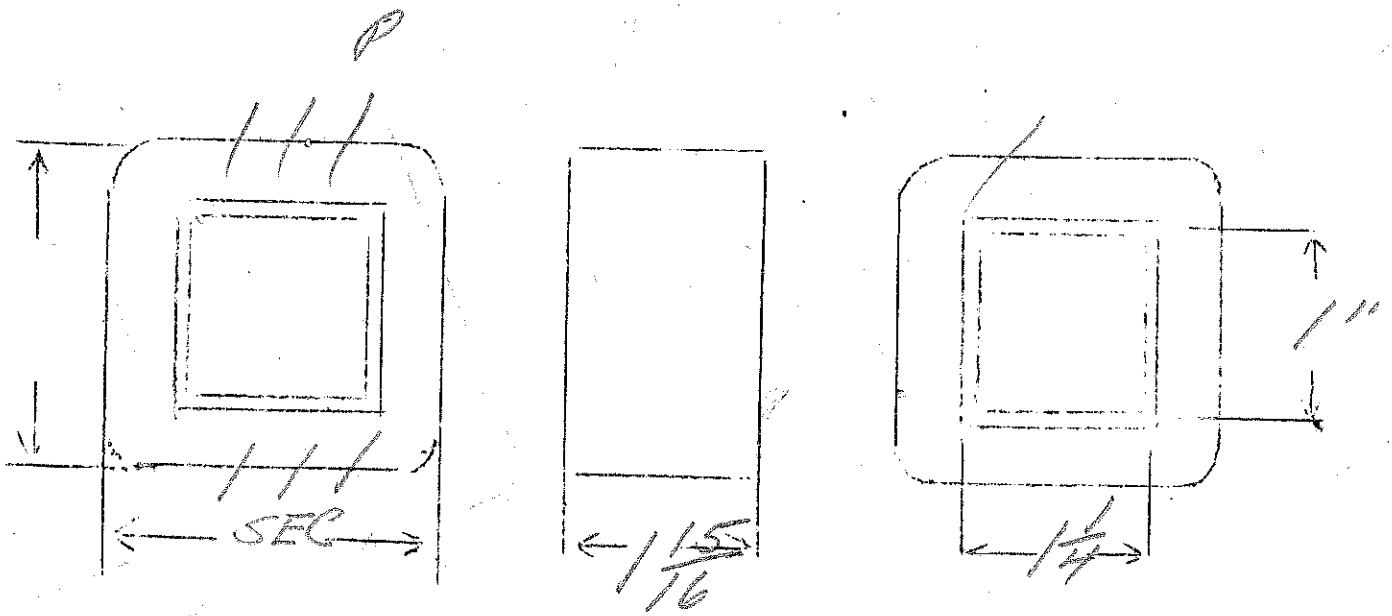
see Sheet 28

SPEC. NO. 1255

Winding	PRI	SEC					
Turns	555 530 507	26					
Taps	485	13					
Wind. Lgth.	1.75	1.75					
Wire Size	#24E	#13E					
T.P.L.	23						
Kind Term.	WIRE ONLY						
Term. Lgth.	6"	6"					
Layer Insul.	30 #						
Wrapper	5LW07VC 2LW76B	4LW07VC 2LW76B					

TUBE | 9LW07+1LW07VC | IMPREGNATION | VARNISH

CURE | 1 hr x 1"



bring out sec leads near center of coil to keep away from laminations

E_p = 105-110-115-120v

E_s = 5v - 20 amp CT. VA=100 see dwg J29

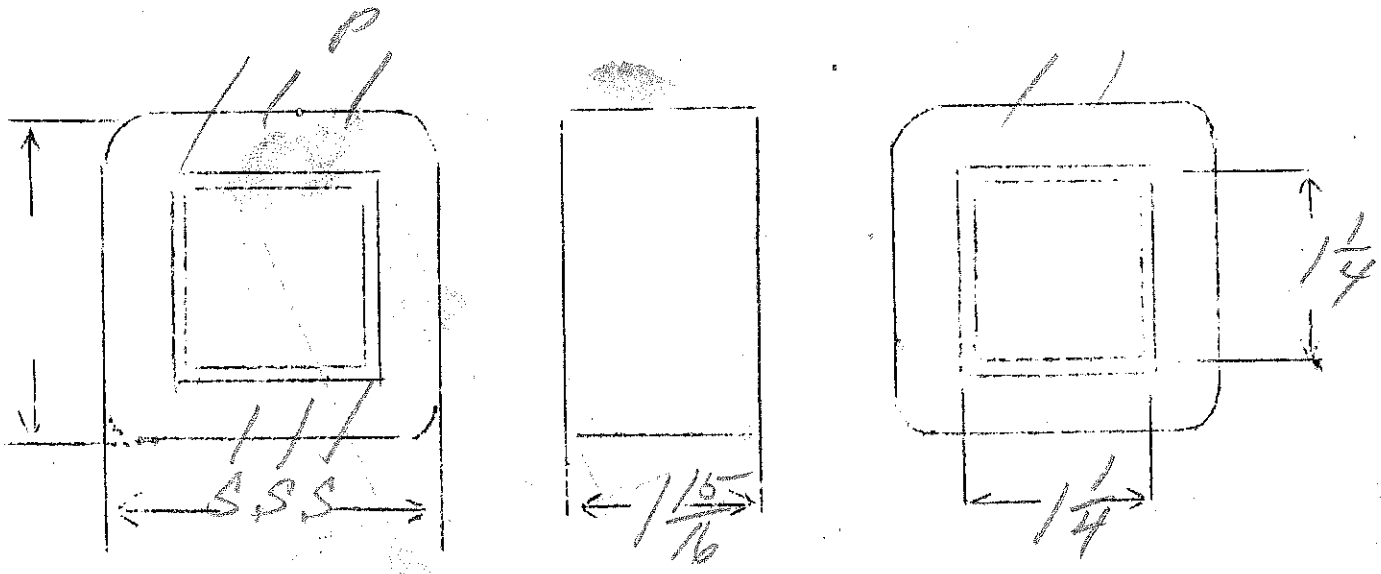
10,000 v hvs

SPEC. NO. 1256

Winding	PRI	SEC					
Turns	436 418	20					
Taps	400 385	10					
Wind. Lgth.	1.75	double					
Wire Size	#21	13					
T.P.L.	54						
Kind Term.	WIRE ONLY						
Term. Lgth.	6"	6"					
Layer Insul.	50#						
Wrapper	2L007HC 2L007HA	2L007HC 2L005610					

TUBE | 2L007 + 2L007HC | IMPREGNATION | VARNISH

CURE | 1/4 x 1 1/4



1500 — 1300 — 0 — 1300 — 1500 VA = 525

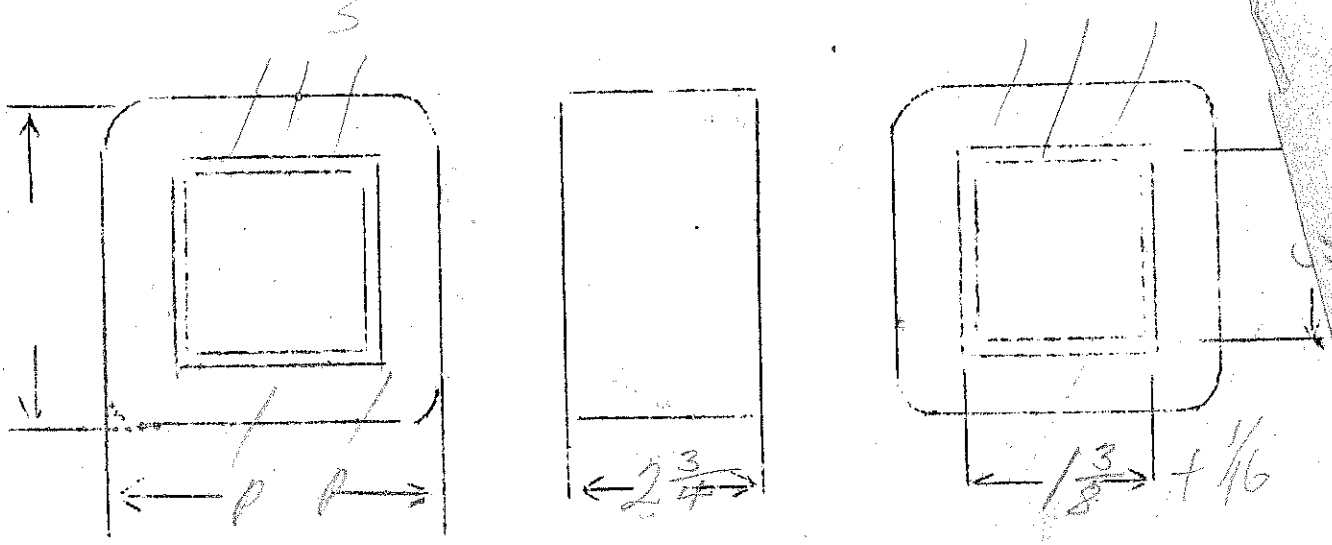
350 Ma $\frac{N}{E} = 143$

SPEC. NO. 1257

Winding	SEC	PRI					
Turns	4700 4400	164					
Taps	2350 300	—					
Wind. Lgth.	2 5/8	2 3/8					
Wire Size	#26 E	Double #18					
T.P.L.	133-38	55-6					
Kind Term.	WIRE ONLY						
Term. Lgth.	6"	6"					
Layer Insul.	50#	Kraft					
Wrapper	2 LOC NC 1 LOC SCR						

TUBE | 10L007 + 1L007KC | IMPREGNATION | VARNISH

CURE | 1 3/8 + 3 hr | 212 · 265



E_p – 115V

E_s – 50V – tap 1-2-3-4-5- 40-45 VA = 20 watts

I_s = 4 amps $\frac{N}{E} = 6.4$

Reg 5%

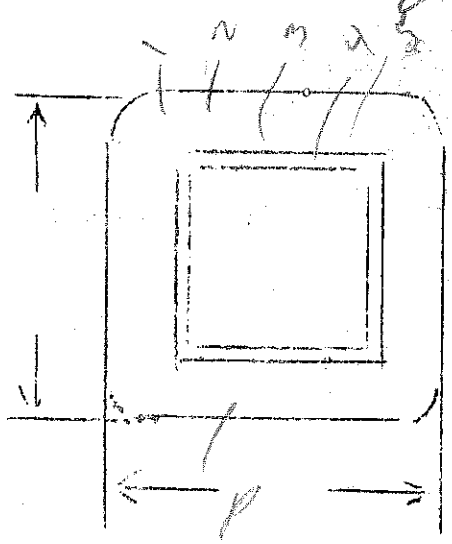
SPEC. NO. 1258

Winding	PRI	SEC					
Turns	735	336					
Taps	—	304 — 270 —	34 – 27 – 22 –	13 – 9			
Wind. Lgth.	1 45/64	1 15/32					
Wire Size	#25	#22					
T.P.L.	63-11	11.					
Kind Term.	#20 ~~Bus~~	WIRE					
Term. Lgth.	12"	6"					
Layer Insul.	~~30#~~	~~50#~~					
Wrapper	KLOTH 2"x005GA						

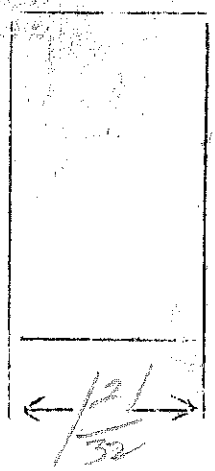
TUBE | 4L007 | IMPREGNATION | VARNISH

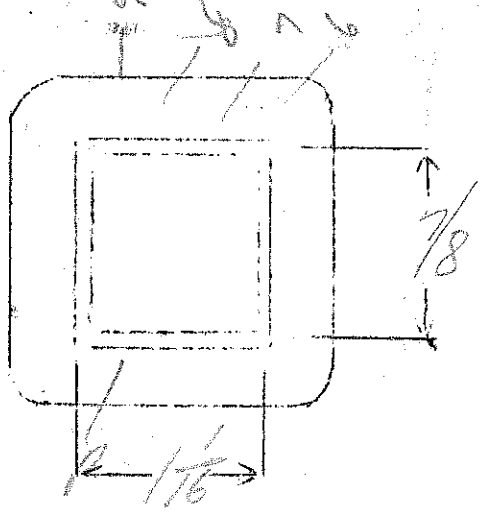
CURE | 1/16 x 7/8

5 mounting



Pri 12" leads out grommet
Sec lug in side case





E_P = 115V

E_{F_2} = 2.5v - 1amp

E_{F_1} = 5v - 2amp

E_S = 290VCT, $\dot{c}$ = 55ma

150V. - end finish

$\frac{N}{E}$ = 6.4

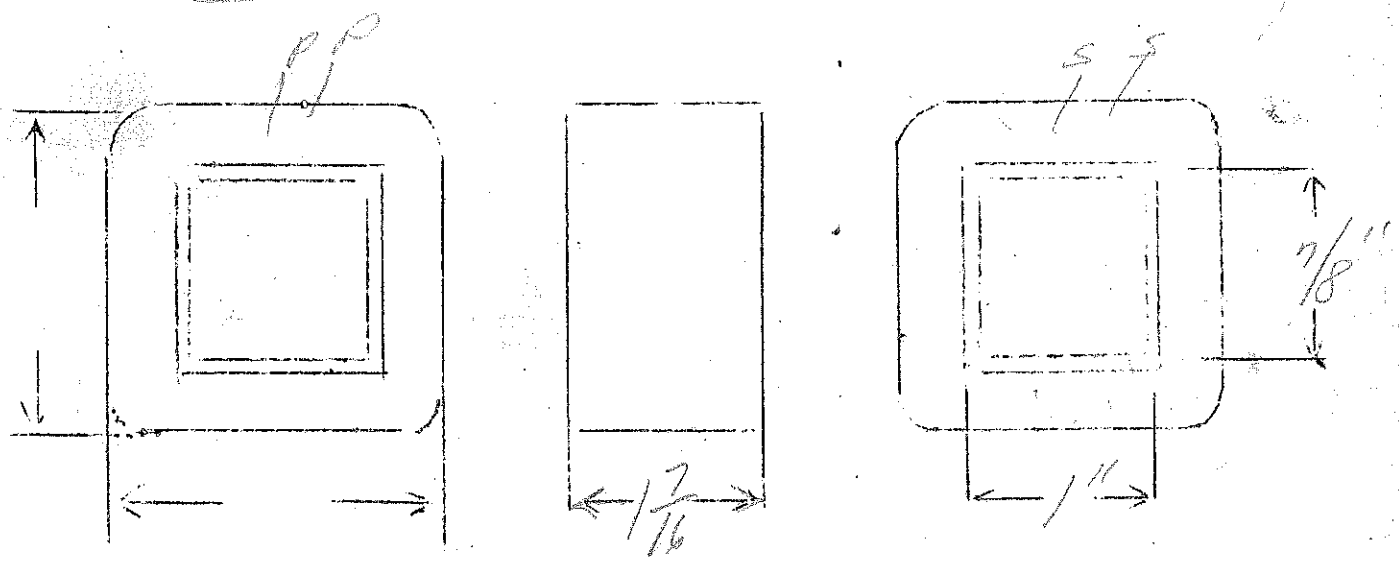
SPEC. NO. 1259

Winding	PRI	SEC	F_1	F_2			
Turns	735	2060	35	17			
Taps	—	1030	—	—			
Wind. Lgth.	1/4	1/4	—	—			
Wire Size	#27	#35	#20	#22			
T.P.L.	74-10	175-12					
Kind Term.	#20 PRI	#20 SEC	WIRE ONLY				
Term. Lgth.	9"	9"	9"	9"			
Layer Insul.	30#	20#	—	—			
Wrapper	1400VC	1400VC	2 Layers	2 Layers			

TUBE | 4/4007 | IMPREGNATION | VARNISH

CURE | 1 X 7/8 NW

no shield



37 1/2

E_p = 105-112-120 VA = 85

E_{S_1} = 10V - 7amp ct

E_{S_2} = 5V - 3amp 5000 V Ins

$\frac{N_P}{N_S}$ = 4.63

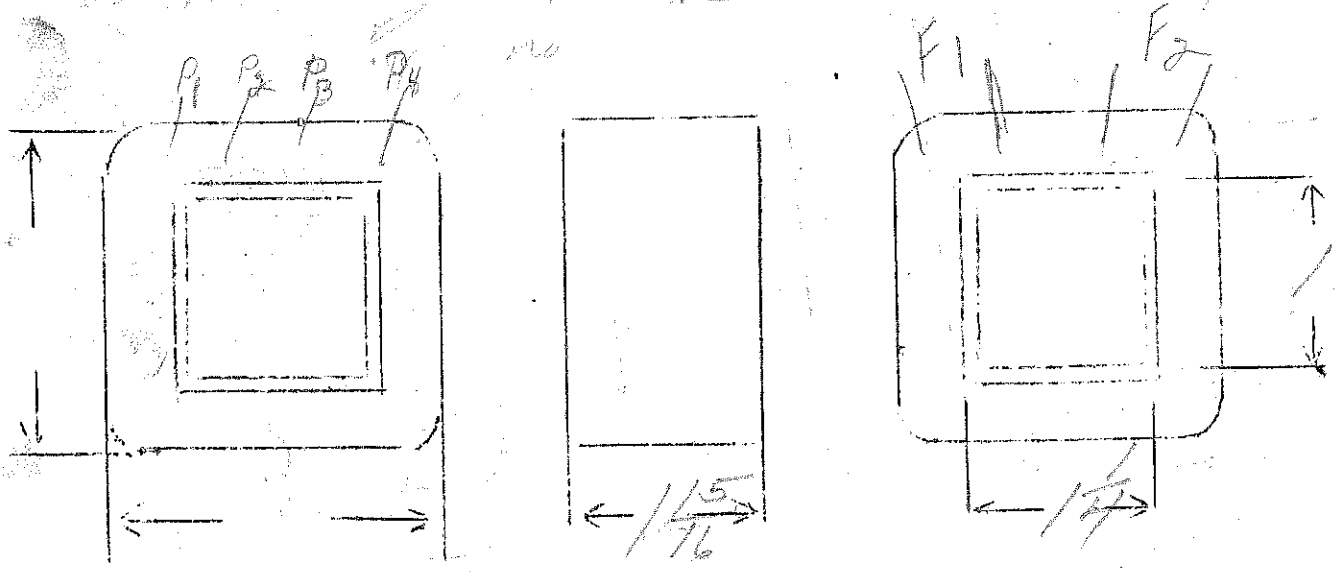
SPEC. NO. 1260

Winding	PRI	E_1	E_2				
Turns	555 579	10	25				
Taps	#86						
Wind. Lgth.	1.25	1.25	1.25				
Wire Size	#23	#14	#18				
T.P.L.	66-10	2 Layers	1 Layer				
Kind Term.	WIRE	ONLY					
Term. Lgth.	3"	3"	3"				
Layer Insul.	.50 #						
Wrapper	1 Lap 7GP	2 Laps 7GP	2 Laps 7GP				

TUBE | 7L009 | IMPREGNATION | VARNISH

CURE | 1 Hr @ 135°

Fig 1 Primary Tap - Make connection



$E_p = 115v$

$E_s = 200v - 300\ ma.$

$E_{F_1} = 5v - 3\ amps$

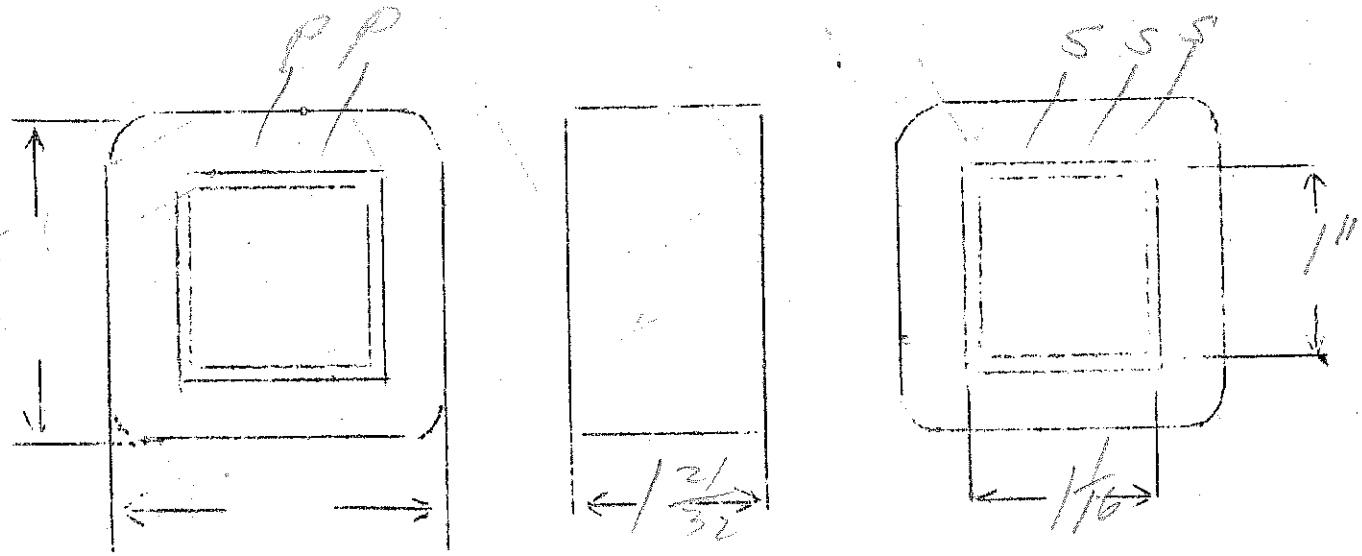
$E_{F_2} = 5v - 3\ amps$

$\frac{N}{E} = 52$

SPEC. NO. 1261

Winding	PRI	SEC	F_1	F_2			
Turns	6000	1160	29	29			
Taps	—	580	—	—			
Wind. Lgth.	1 15/32"	1 15/32"	—	—			
Wire Size	#24	#28	#18	#18			
T.P.L.	62-10	88-12					
Kind Term.	#20 P Brand		WIRE	ONLY			
Term. Lgth.	9"	9"	9"	9"			
Layer Insul.	30#	30#	—	—			
Wrapper	1 LAYER WC	1 LAYER WC	2 LAYERS WC	2 LAYERS WC			

TUBE	4C0-07	IMPREGNATION	VARNISH
CURE	1 1/16 x 1"		



E_p = 1102

E_{S_1} = 5V – 6 amps

E_{S_2} = 620V – 500 MA CT.

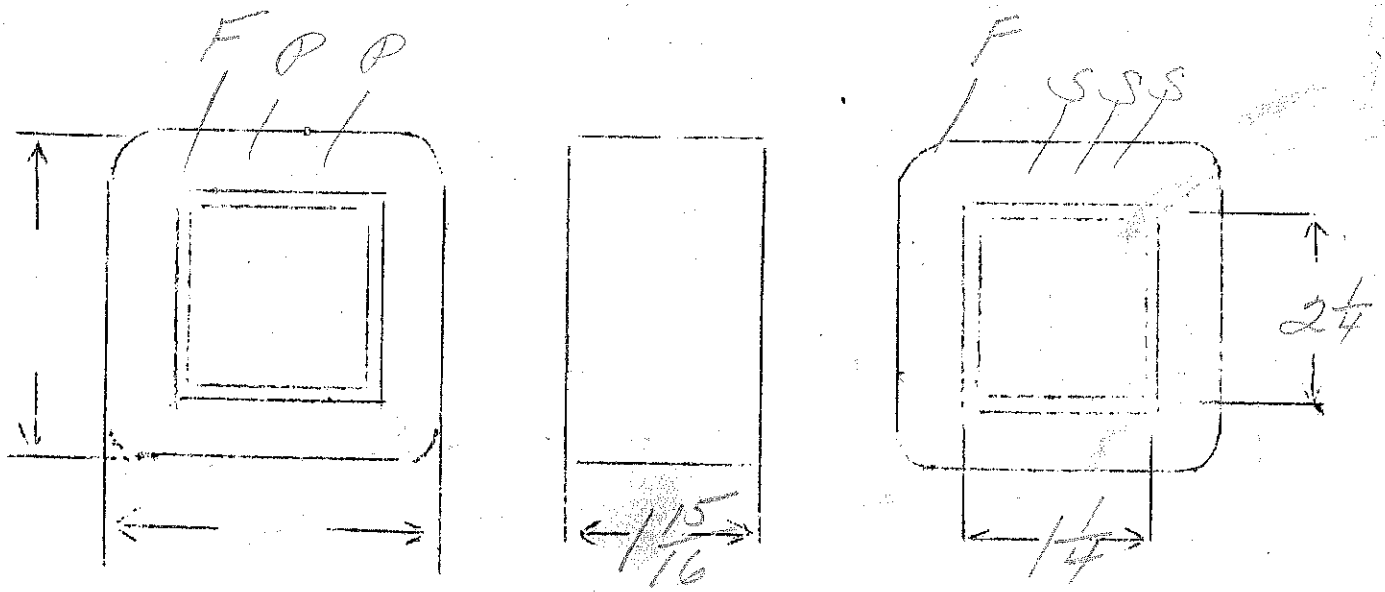
$\frac{N}{E}$ = 2.06

SPEC. NO. 1262

Winding	SEC	SHIELD	PRI	F			
Turns	1400	88	238	11			
Taps	700	—		—			
Wind. Lgth.	1.75	1.75	1.75	—			
Wire Size	#25E	#25E	#20	double #17			
T.P.L.	88-16	88	49-5	11			
Kind Term.	#20 Bus	Sol. Bus	#20 Bus	WIRE ONLY			
Term. Lgth.	9"	3"	9"	9"			
Layer Insul.	30#		50#				
Wrapper	1 LAYER	1 LAYER	2 LAYER	2 LAYER			

TUBE | 2009 | IMPREGNATION | VARNISH

CURE | 4 HRS @ 2"



E_p = 110-115-120-125

E_s = 2500V - 350 Ma.

E_f = 10.5 VCT. 7 amps

TOTAL VA = 955 watts approx.

10% Regulation - 1050 watts

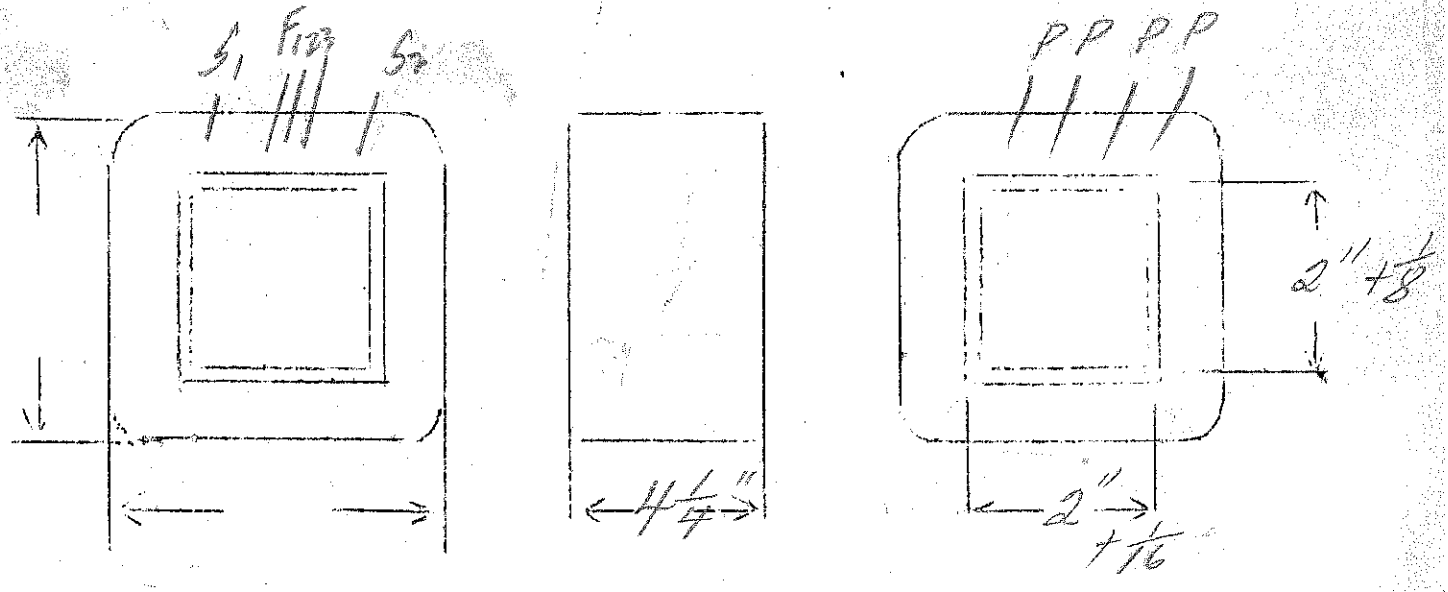
$\frac{N}{E}$ = 1.48

SPEC. NO. 1263

Winding	SEC	PRI	FIL.				
Turns	4440	135 154 178	17				
Taps	—	163	8				
Wind. Lgth.	3 3/4	3 3/4					
Wire Size	#26	#12	#14				
T.P.L.	208-20		14				
Kind Term.	WIRE ONLY						
Term. Lgth.	6"	6"	6"				
Layer Insul.	50#	.005 GP					
Wrapper	2 LOO 7VC 3 LOO 5 GA	3 LOO 5 GA	2 LOO 5 GA 1 LO 1 RC				

TUBE | 10 LOO + 1 LOO 7VC | IMPREGNATION | VARNISH

CURE | 2" ±2"



Radio Set

E_P = 115 V

E_S = 5 V. C.T. - 12 amps

5000 v. Insulation.

VA = 60 watts

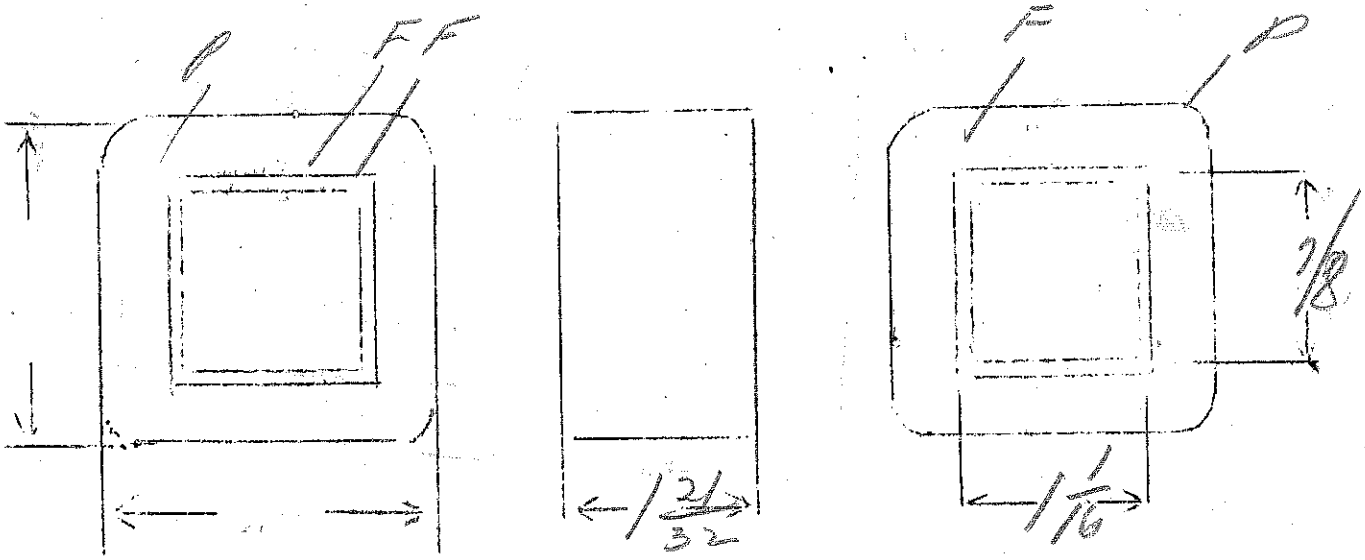
$\frac{N}{E}$ = 5.95

SPEC. NO. 1264

Winding	PRI	SEC					
Turns	685	33					
Taps	—	17					
Wind. Lgth.	15/32	15/32					
Wire Size	#24E	#12					
T.P.L.	63-11	24					
Kind Term.	#30 DSC	WIRE ONLY					
Term. Lgth.	9"	9"					
Layer Insul.	50 #						
Wrapper	2 LAYERS 1/2 MIL CAMBRIC	2 LAYERS CAMBRIC					

TUBE | 4L007 | IMPREGNATION | VARNISH

CURE | 1/16 x 3/8



R.

E_b = 110 - 115 - 120 - 125

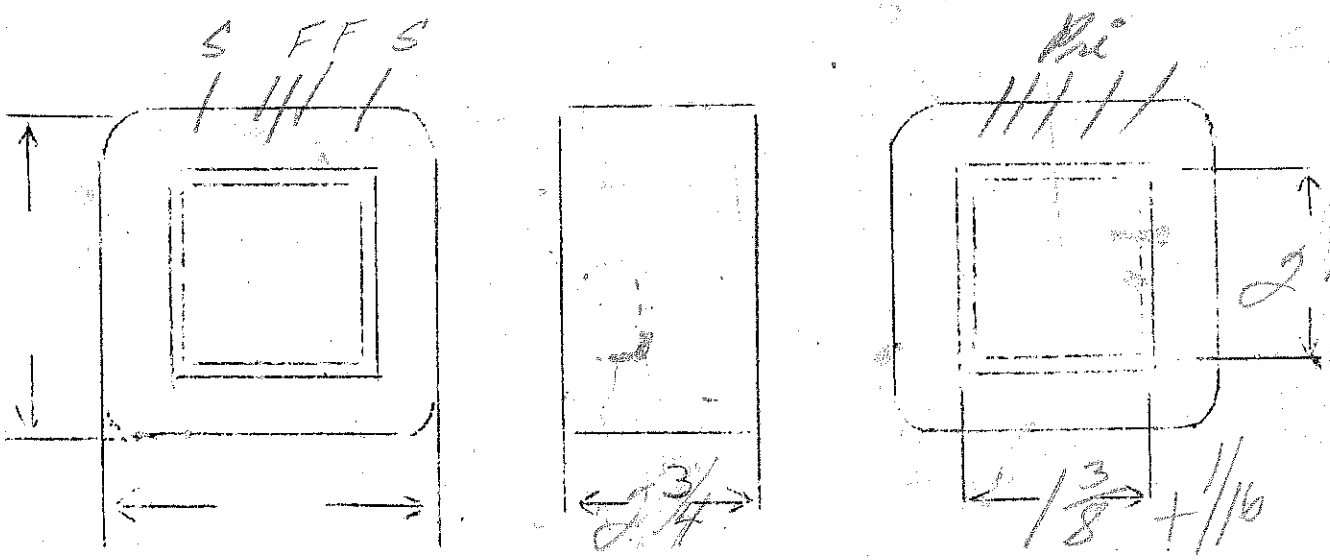
E_s = 1400 V - 300 MA.

E_F = 20 V - 3.25 amps

$\frac{N}{I}$ = 125

SPEC. NO. 1265

Winding	SEC	SHIELD	PRI	FIL			
Turns	2750	190	218 210	39			
Taps	—	—	202 193	19			
Wind. Lgth.	2 1/4	2 1/4	2 1/4				
Wire Size	#27	#27	#14	#17			
T.P.L.	140-20	140	21				
Kind Term.	WIRE ONLY - NO SLEEVING				—		
Term. Lgth.	6"	3"	6"	6"			
Layer Insul.	50#	—	BASBA				
Wrapper	2L005A	2L005A	2L005A	2L005A			
TUBE	1OL007 + 1L007VC		IMPREGNATION	VARNISH			
CURE	1 3/8 X 2 1/2"						



Bustaid

E_P = 105-110-115-120

E_S = 3500V - 250 MA V.A. = 925 watts

E_{F_1} = 5V - 10 amps

$\frac{N}{E}$ = 1.4

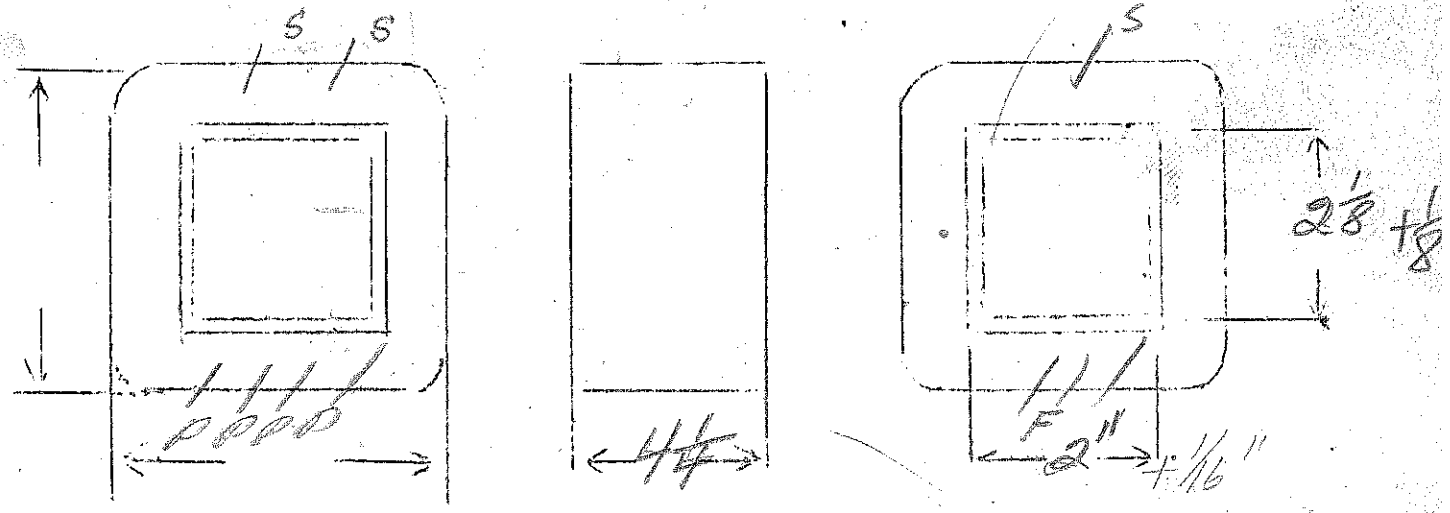
7500V Breakdown SPEC. NO. 1266

Winding	SEC	PRI	FIL				
Turns	5500	168 164 154 147	8				
Taps	—		4				
Wind. Lgth.	3 5/8						
Wire Size	#27	#11	#12				
T.P.L.	220-26	—					
Kind Term.	W.O.	WIRE ONLY					
Term. Lgth.	6"	6"	6"				
Layer Insul.	50#	005					
Wrapper	2L007VC 2L056A	2L056A	2L056A 2L010KR				

TUBE | 1L007 + 2L007VC | IMPREGNATION | VARNISH

CURE | 2" x 2 1/8"

increased leg brackets flush with laminations



E_P = 105 - 110 - 115 - 120

E_{F_1} = 5V - 2.2 amps

E_{F_2} = 2.5V - 12 amps

10,000 V. Insulation

$\frac{N}{E} = 2.9$

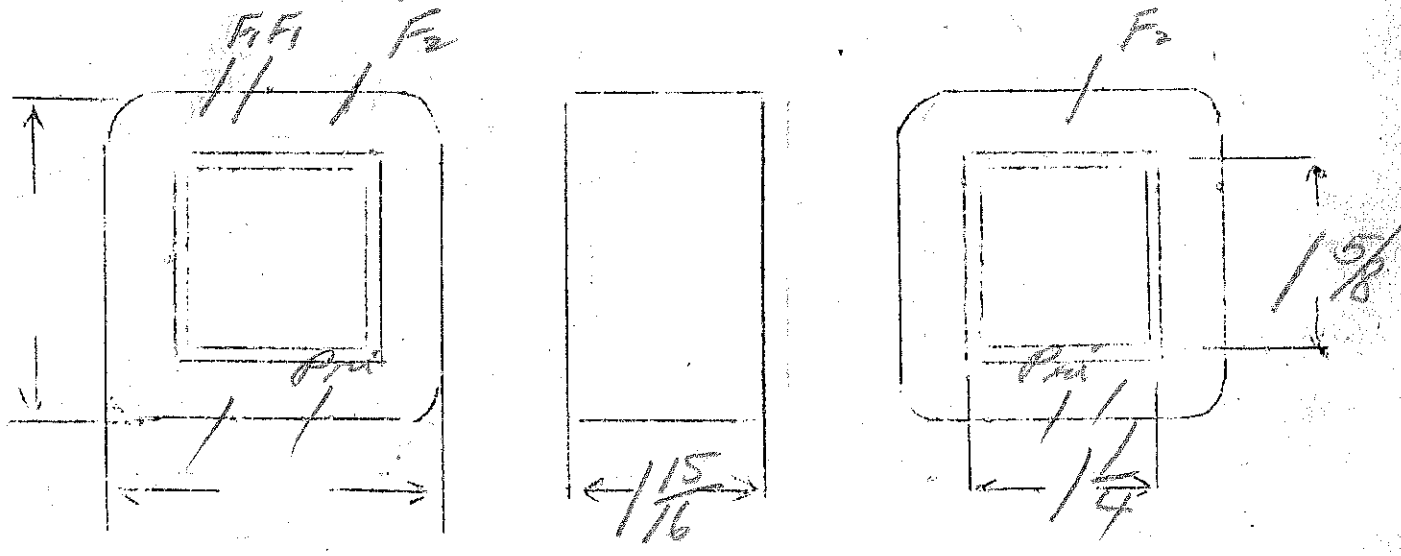
SPEC. NO. 1267

Winding	PRI	F_1	F_2				
Turns	348 334 320 304	16	8				
Taps		—	—				
Wind. Lgth.	1.75	—	—				
Wire Size	#20	double #12	#12				
T.P.L.	50						
Kind Term.	WIRE ONLY						
Term. Lgth.	6"	6"					
Layer Insul.	50#						
Wrapper	4007 VC 2 MIL GA	4007 VC 2 MIL GA	4007 VC 2 MIL GA				

TUBE | 2007 | IMPREGNATION | VARNISH

CURE | 1/4 X 1 5/8

use V.C. in single winding under leads!



Pri — 115 7500 V Ins

Sec — 2000 — 1750 - 0 - 1750 - 2000 V — 500 Ma.
(4000 Ring)

E = 118 SPEC. NO. 1268

Winding	SEC	PRI					
Turns	5330 4990 2660	136					
Taps	330 0	—					
Wind. Lgth.	3 3/4						
Wire Size	#25	double #14					
T.P.L.	185-30	5 layers					
Kind Term.	WIRE out						
Term. Lgth.	6"	6"					
Layer Insul.	50 #	9005A					
Wrapper	3L005A	3L005A 1 Cover					

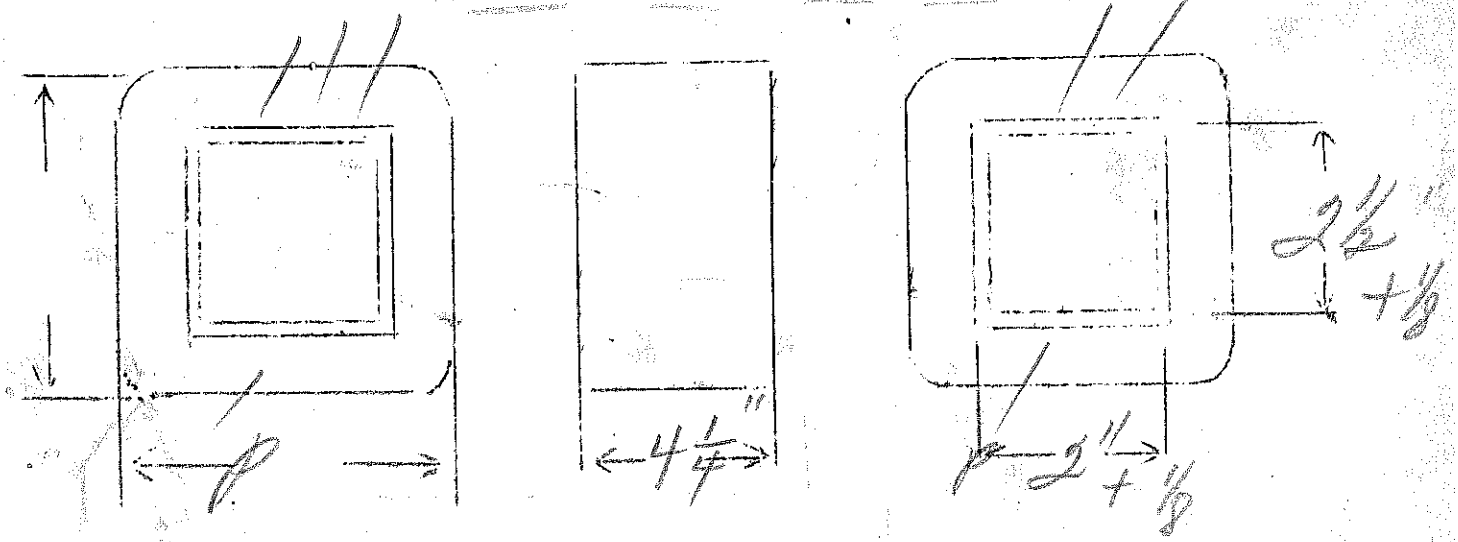
TUBE | 10L007 + 2007KC | IMPREGNATION | VARNISH

CURE | 2 X 2 1/2"

Ground sec. C.T. (optional, see just below)

5 5

Sec. - Leads to Term. Board



440-4
440-5

E_P = 110 - 125 V pri E_{F4} = 2.5 V - 6 amps

E_{F1} = 2.5 V - 11 amps

$\frac{N}{E^n}$ = 2.9

E_{F2} = 10 V - 10 amps

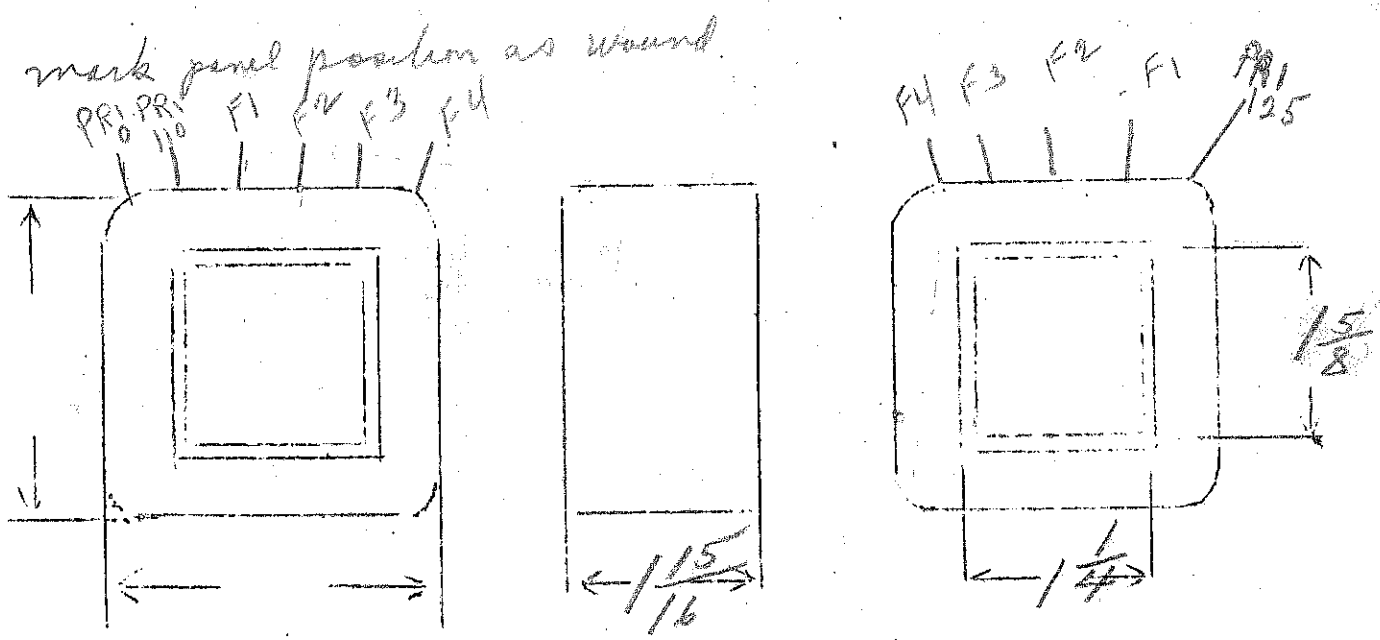
E_{F3} = 6.3 V - 2 amps

SPEC. NO. 1269

Winding	PRI	F_1	F_2	F_3	F_4		
Turns	350 310	8	32	20	8		
Taps	0	—	—	—	—		
Wind. Lgth.	1.75	—	—	—	—		
Wire Size	#20	#12	#12	#19	#15		
T.P.L.	46	—	2L	—	—		
Kind Term.	WIRE	ONLY	—	—	—		
Term. Lgth.	3"	3"	3"	3"	3"		
Layer Insul.	50#						
Wrapper	2L0076A		2L0076A		2L0076A		

TUBE | 2L007 | IMPREGNATION | VARNISH

CURE | 1 1/4 x 1 5/8

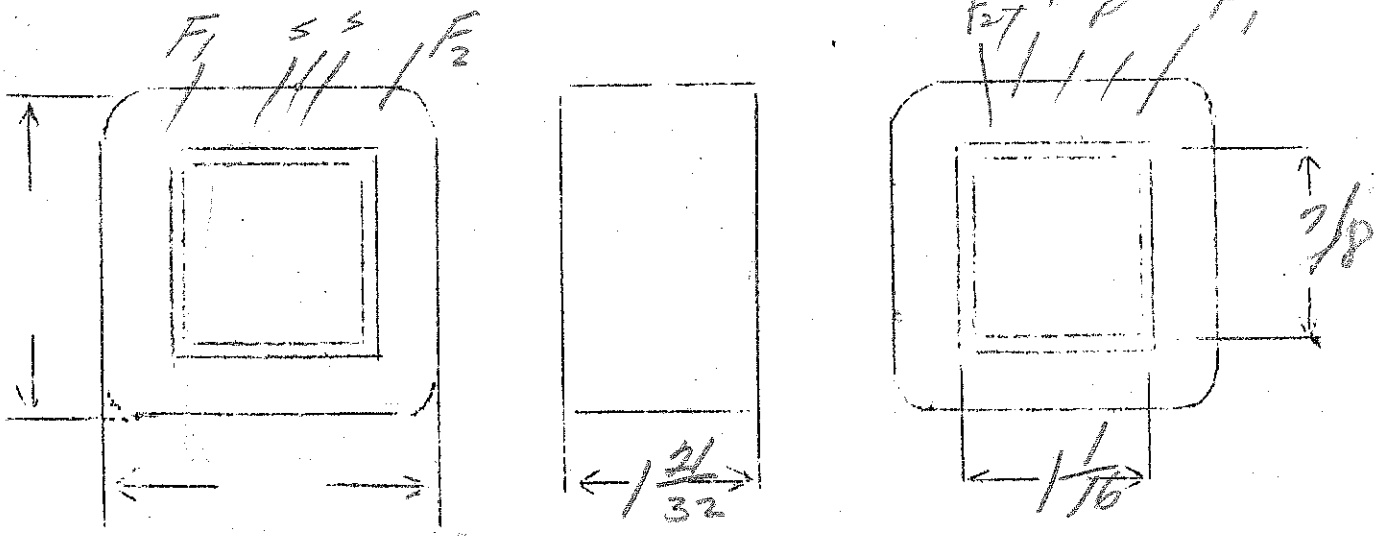


Same 4075-
E_b = 132 volts.

SPEC. NO. 1270

Winding	PRI	SHIELD	SEC	F_1	F_2		
Turns	755	70	4500	34	41		
Taps	—	—	2250	—	20		
Wind. Lgth.	$1\frac{15}{32}$	$1\frac{15}{32}$	$1\frac{15}{32}$	—	—		
Wire Size	#25	#25	#35	#20	#19		
T.P.L.	70-11	70-1	226-20	—	—		
Kind Term.	#20 per	WIRE	#20 per	WIRE ONLY			
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	30#	—	30#	—	—		
Wrapper	2 Lo 7M.C	1 Lo 7M.C	2 Lo 5GA	2 Lo 5GA	2 Lo 5GA		

TUBE	4L007	IMPREGNATION	VARNISH
CURE	1 hr @ 110°		



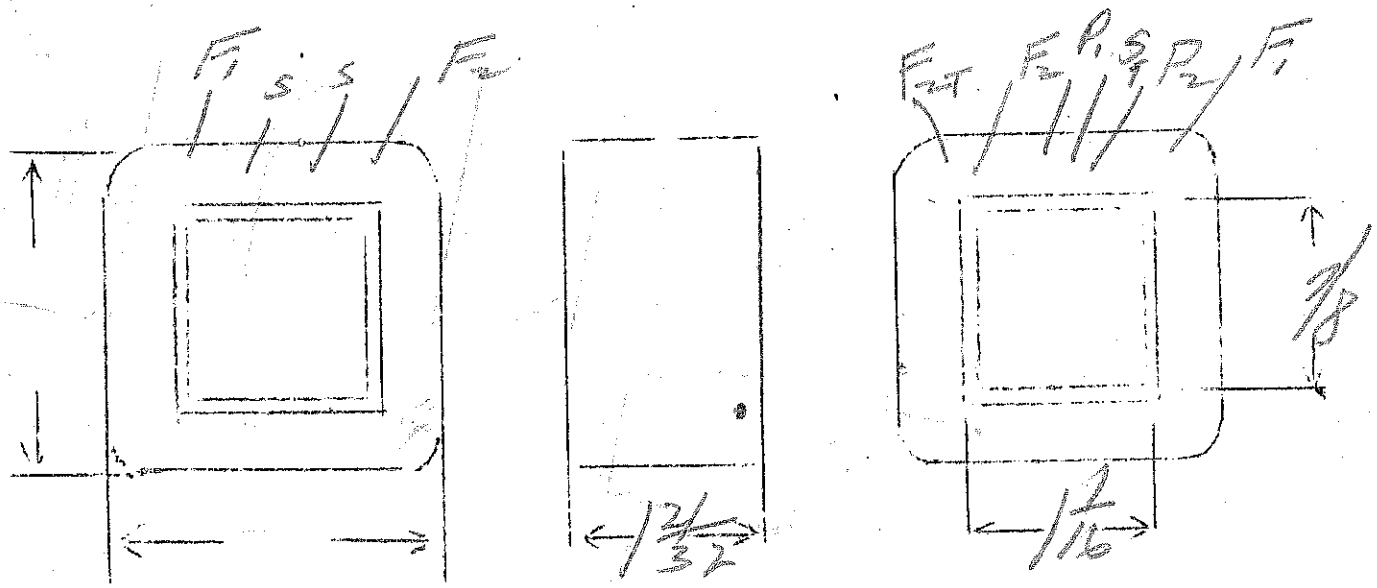
SEVEN TUBE

N/E = 585

SPEC. NO. 1270

Winding	SEC	SHIELD	PRI	F_1	F_2		
Turns	4620	68	675	34	42		
Taps	2310	—	—	—	21		
Wind. Lgth.	$1\frac{15}{32}$	$1\frac{15}{32}$	$1\frac{13}{32}$	—	—		
Wire Size	#35	#25	#25	#20	#19		
T.P.L.	2½-22	68	68-10	—	—		
Kind Term.	#20 Par	wire	#20 Par	WIRE ONLY			
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	30#		30#				
Wrapper	2L005K	2L005K	2L005K	2L005K	2L005K		

TUBE	2L007	IMPREGNATION	VARNISH
CURE	1 hr x 70°		



E_p = 115V

E_s = 2650 CT + 1500 CT - 350 Ma.

470 watts

B = 11,500

V/E = 1.46

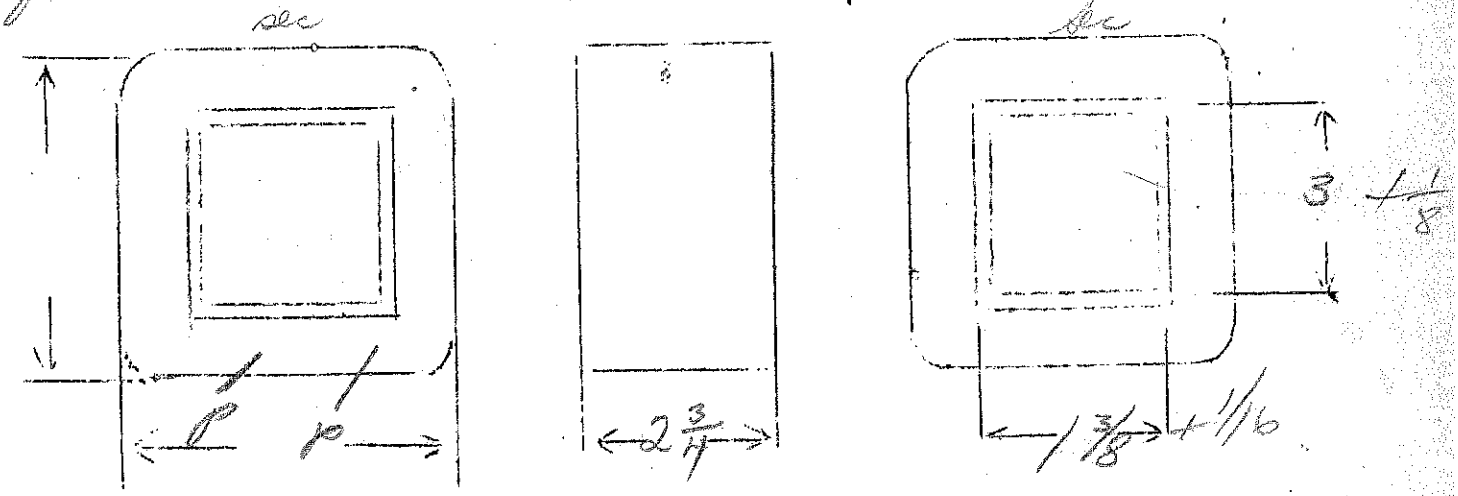
SPEC. NO. 1272

Winding	SEC	PRI					
Turns	4350 3400	168					
Taps	2175 950	—					
Wind. Lgth.	2 3/8	2 1/2" double					
Wire Size	#26	#18					
T.P.L.	128	29-6					
Kind Term.	WIRE ONLY						
Term. Lgth.	6"	6"					
Layer Insul.	50#						
Wrapper	2L007VC 2L005SR 2L005SR 1L010RD						

TUBE | 1DL007H 2L007VC | IMPREGNATION | VARNISH

CURE | 1 3/8 x 3

Finishers - Keep sec leads away from corners of coils! Single winders be sure to insulate from sec. leads before winding primary.



Radio 24

E_p = 115 V.

E_s = 1200 V. c.t. each side of

I_s = 350 Ma.

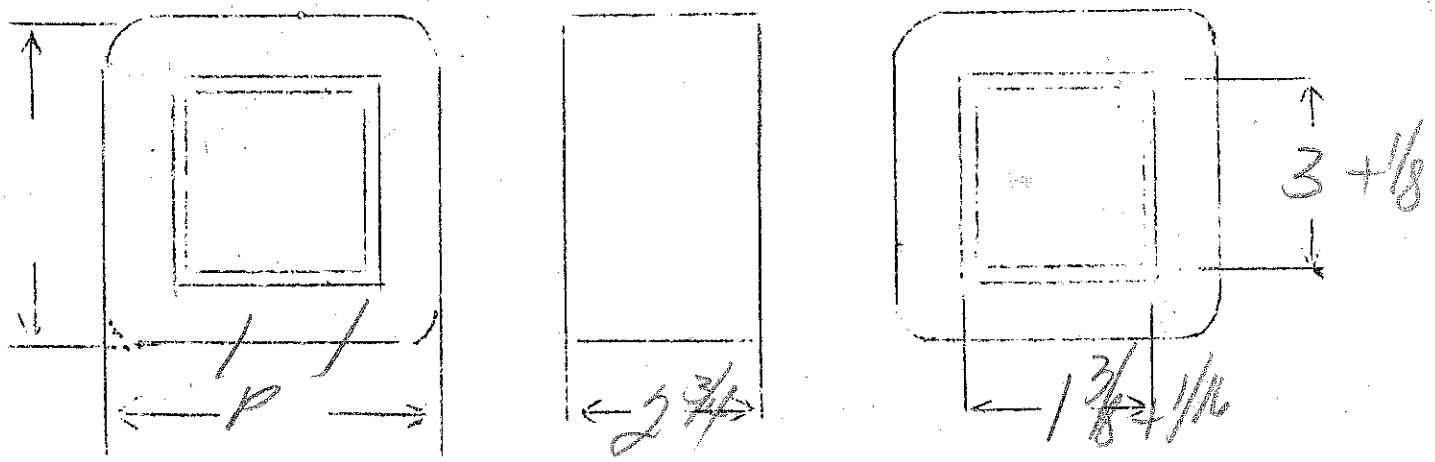
VA = 420 watts

SPEC. NO. 1273

Winding	SEC	PRI					
Turns	3950	168					
Taps	1975	—					
Wind. Lgth.	2 3/8	2 1/2					
Wire Size	#26	double #18					
T.P.L.	125-3229-6						
Kind Term.	WIRE	ONLY					
Term. Lgth.	6"	6"					
Layer Insul	50# 2W07VC	Kraft 2W05EN					
Wrapper	2W05GA	1L01ORR					

TUBE | 1W07 + 2W07VC | IMPREGNATION | VARNISH

CURE | 13/8 X 3"



Radio set

E_P = 115 V

E_{F_1} = 6.3 V - 6 amps

E_{F_2} = 10 V - 6 amps

5000 V insulation

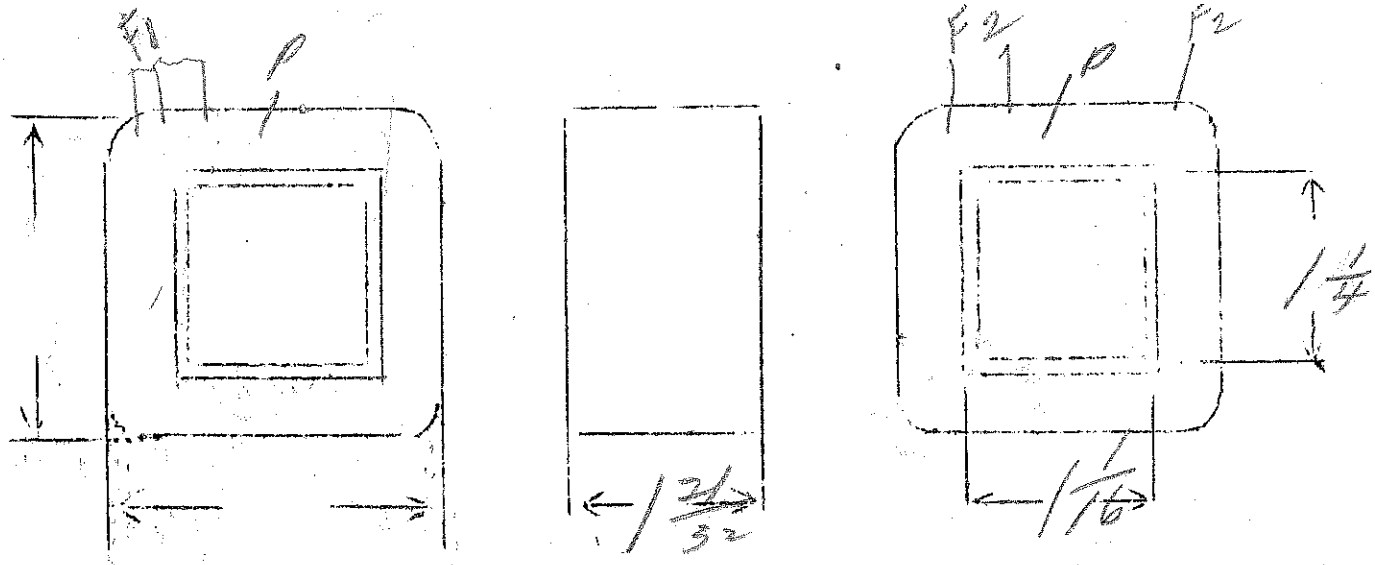
$\frac{1}{2}$ = 4.2

SPEC. NO. 1274

Winding	P&I	F	F				
Turns	485	47	30				
Taps	—	23	15				
Wind. Lgth.	$\frac{15}{32}$	—	—				
Wire Size	#23	#15	#15				
T.P.L.	54-9	—	—				
Kind Term.	WIRE ONLY						
Term. Lgth.	3"	3"	3"				
Layer Insul.	50#						
Wrapper	2L007VC 2L0056A	2L007VC 2L0056A	2L007VC 2L0056A				

TUBE | 2L007 | IMPREGNATION | VARNISH

CURE | $\frac{1}{16}$ x $\frac{1}{4}$



Ep - 115V

Es - 8, 16, 24V - 60 watt Chime (continuous) 75 watt intermittent

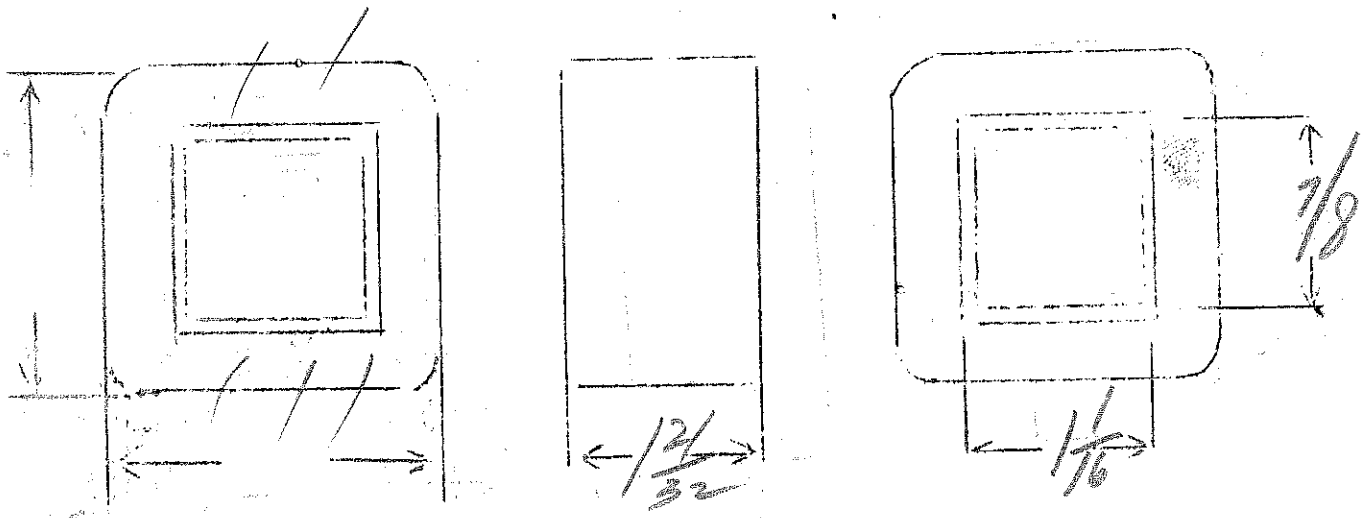
$\frac{N}{E}$ - 595

SPEC. NO. 1275

Winding	PRI	SEC					
Turns	685	160					
Taps	—	53					
Wind. Lgth.	$1\frac{15}{32}$	$1\frac{15}{32}$					
Wire Size	#25	#19					
T.P.L.	10-10						
Kind Term.	#14 Solid						
Term. Lgth.	8"	8"					
Layer Insul.	30#	0056A					
Wrapper	2L0056A	2L0056A					

TUBE | 4L807 | IMPREGNATION | VARNISH

CURE | $1\frac{1}{2}$ hr. @ 275°



Ep - tapped - 115V - 125V - 140V N = 1,132

Es - 1840 VCT - 250Ma

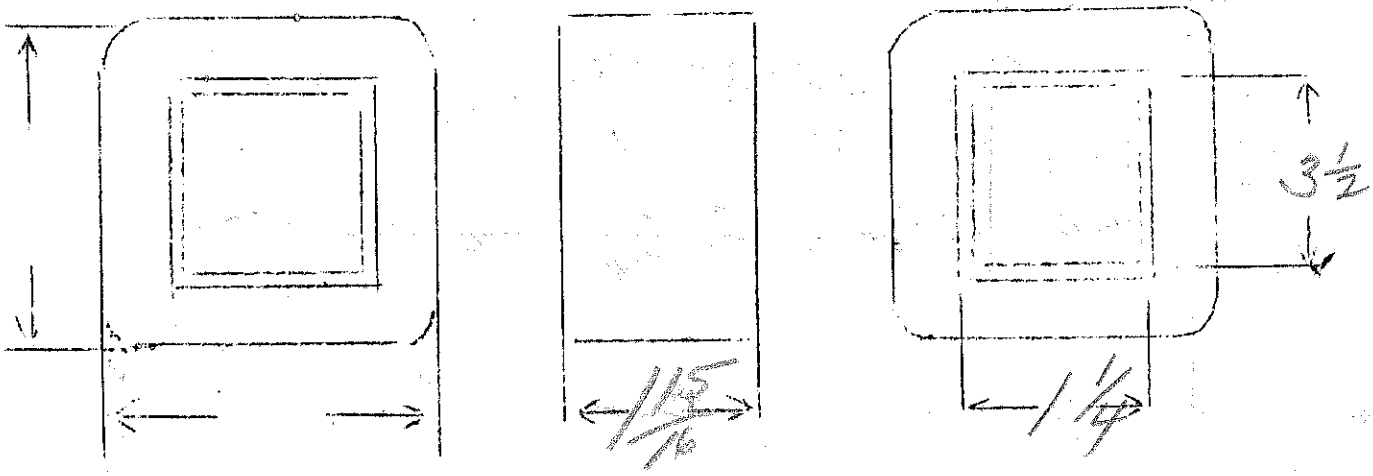
SPEC. NO. 1276

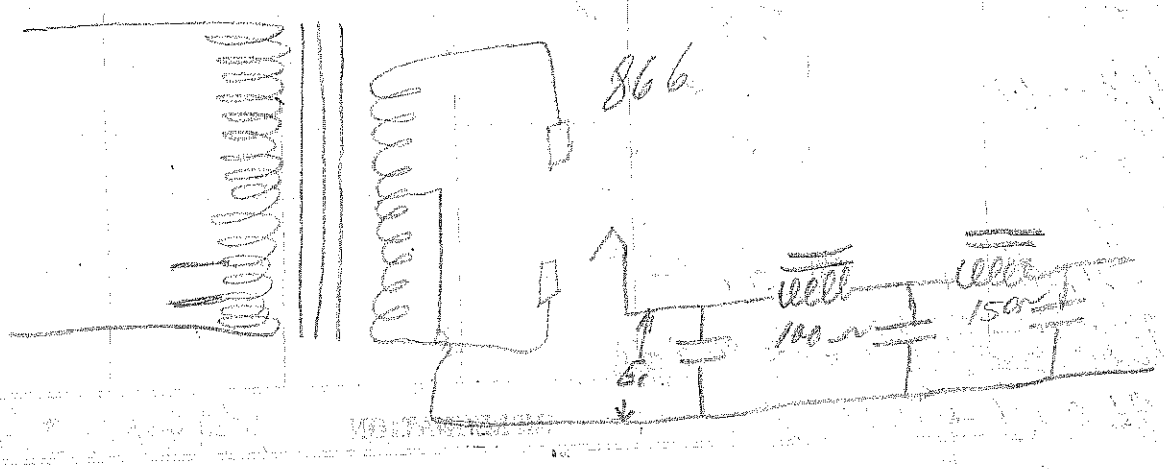
Winding	SEC		PRI	Continuous			
Turns	2640		152	33			
Taps	1320		—	9			
Wind. Lgth.	1 11/16		—				
Wire Size	#28		#18	#19			
T.P.L.	1-3-24		39-4				
Kind Term.	#20 Str		WIRE ONLY				
Term. Lgth.	9"						
Layer Insul.	40#		kraft				
Wrapper	2 L007VC 1 L007GA		2 L007GA				

TUBE | 2L007 + 1L007VC | IMPREGNATION | VARNISH

CURE | 1½ x 3½"

0 = White
152 = Blue
9 = Green
33 = Black





Total CHOKE RES 250Ω

250 Ω × 2.5 = 625 mV/volt variation

250 × 2.5 = 625 V

$\frac{750 + 625 + 15}{.9} = \frac{827}{.9} = 920$ each side

$\frac{700 + 625 + 15}{.9} = \frac{777}{.9} = 865$ each side

$\frac{600 + 625 + 15}{.9} = \frac{677}{.9} = 755$ each side

$E_p = 115$

$E_3 = 300$ VCT – 2.5 mA (to new coil) $\frac{N}{E} = 7.7$

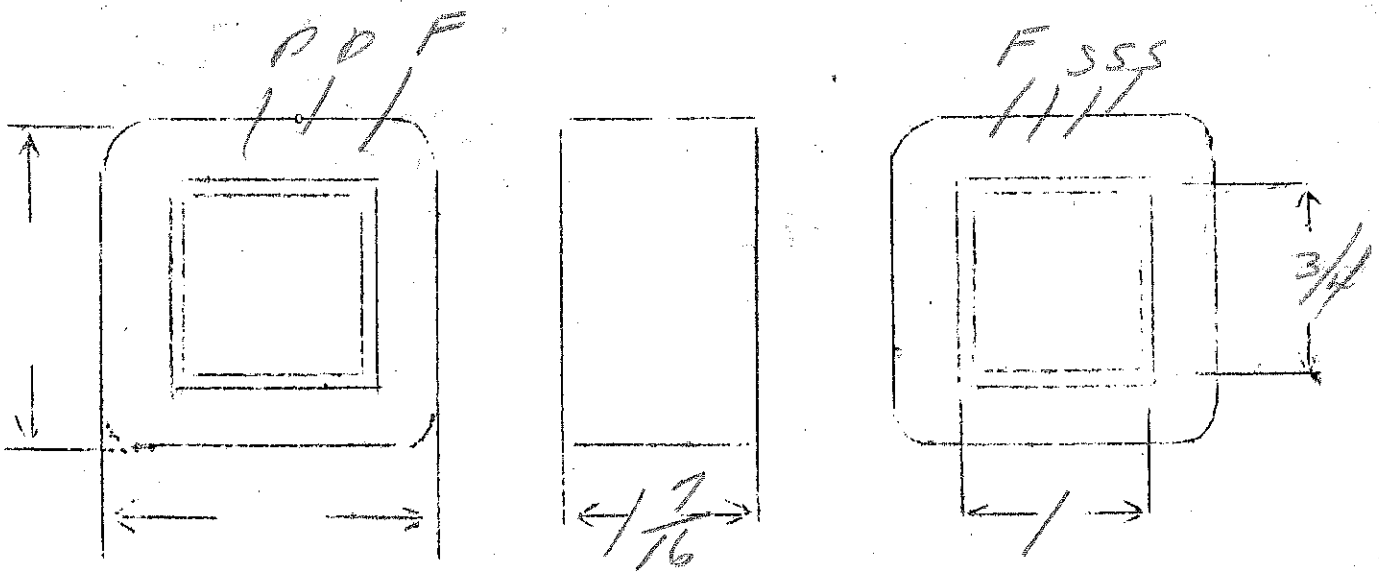
$E_F = 5V - 3$ amps

SPEC. NO. 1217

Winding	PRI	SHIELD	SEC	F1			
Turns	880	75	2550	44			
Taps	—	—	1275	—			
Wind. Lgth.	1.25	1.25					
Wire Size	#28	#28	#37	#18			
T.P.L.	25-12	75	225-12				
Kind Term.	#20 Brs	Sil Brs	#20 Brs	Wired			
Term. Lgth.	9	3	9	9			
Layer Insul.	30#		20#				
Wrapper	Kraft	Kraft	2 mil	2 mil			

TUBE | 42007 | IMPREGNATION | VARNISH

CURE | 1 X 3/4



110V - 5 amps

60
55
50
45
40
35
30

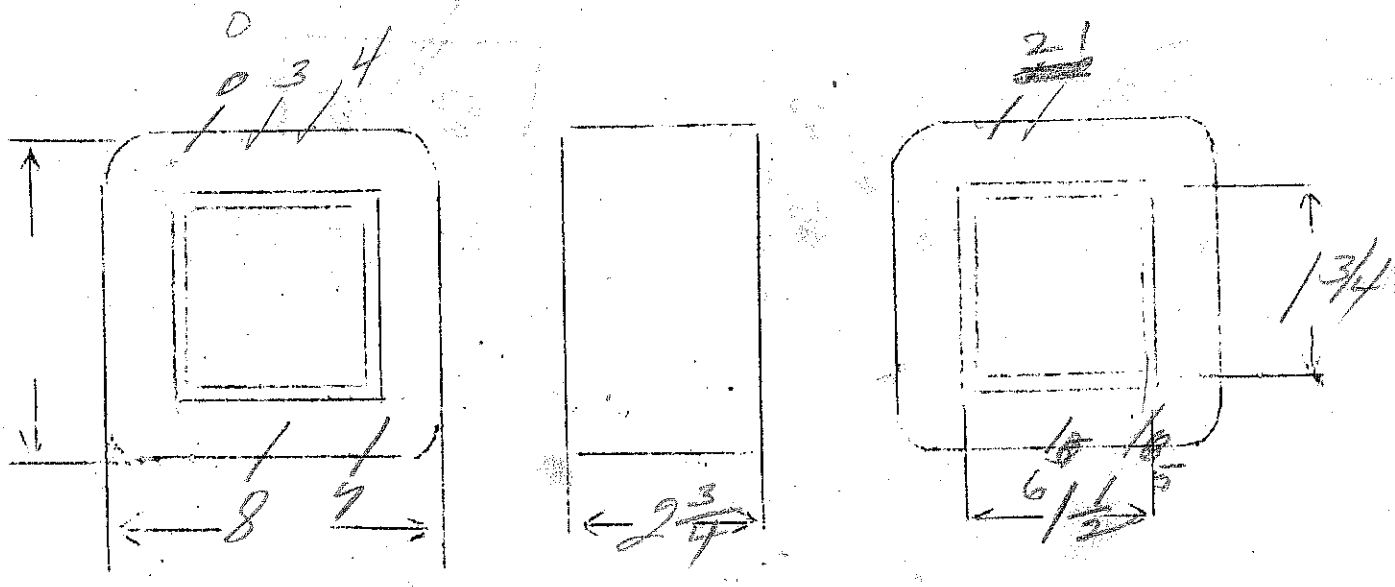
10 amps Each

$\frac{N}{L} = 2.4$

SPEC. NO. 128

		Continuous						
Winding	PRI							
Turns	144					120		
Taps	132-120-108-96-84-72							
Wind. Lgth.	2 3/8							
Wire Size	#11					#14		
T.P.L.	24-6					4L		
Kind Term.	WIRE ONLY							
Term. Lgth.	6"							
Layer Insul.	.005 GA							
Wrapper						.010 SGA VLO IRR		

TUBE	10L007	IMPREGNATION	VARNISH
CURE	1/2 x 1 3/4		



AOT 66 - Heavier - 122V pri

E_p = 122V

E_s = 880V C.T. - 200MA

E_{F_1} = 5V - 3 amps

E_{F_2} = 2.5V - 5 amps C.T.

E_{F_3} = 2.5V - 12 amps

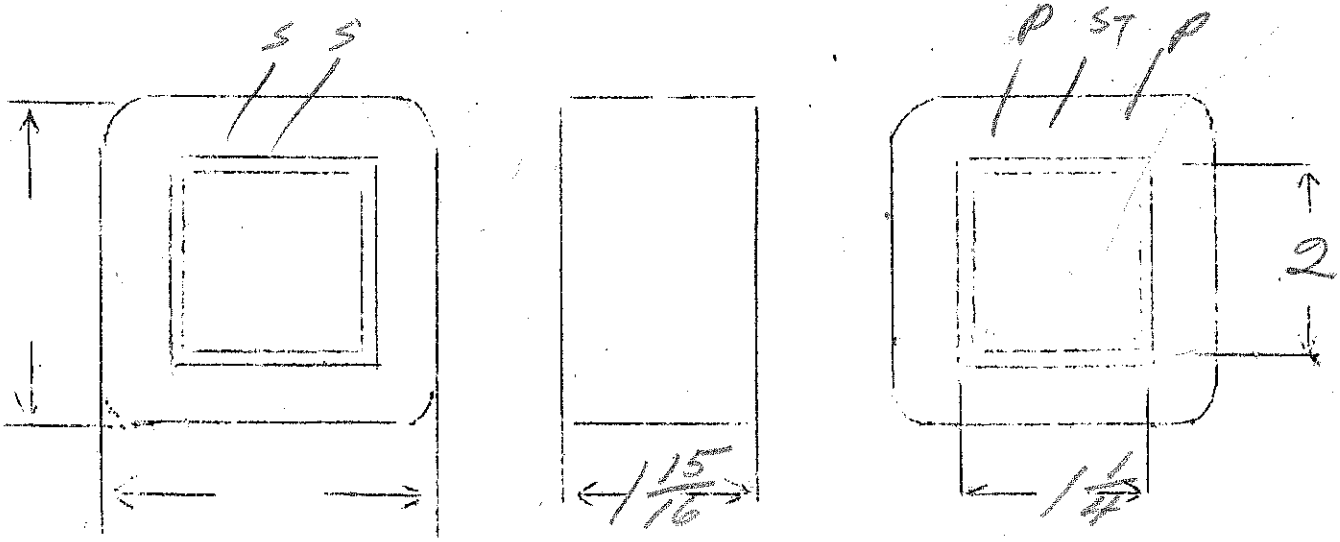
$\frac{N}{E}$ = 2.25

SPEC. NO. 1279

Winding	SEC	SHIELD	PRI	F_1	F_2	F_3	
Turns	1940	139	280	12	6	6	
Taps	970	—	—	—	3	—	
Wind. Lgth.	1.75	1.75	1.75	—	—	—	
Wire Size	#29	#29	#20	double #24	#16	#15 stranded	
T.P.L.	139-14		48-6				
Kind Term.	#20 push	5/16"	#20 push	WIRE	OUT	—	
Term. Lgth.	9	3	9	9	9	9	
Layer Insul.	50#	—	50#	—	—	—	
Wrapper	2L007C	1L007C	2L007A	2L007A		2L007A	

TUBE | 2L007 + 1L007C | IMPREGNATION | VARNISH

CURE | 1 hr x 2



t_p = 105 - 112 - 118 - 125

E_{F1} = 2.5V - 7amps

E_{F2} = 2.5V - 2.5amps all CT

E_{F3} = 10V - 3.5 amps

E_{F4} = 2.5V - 5amps

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

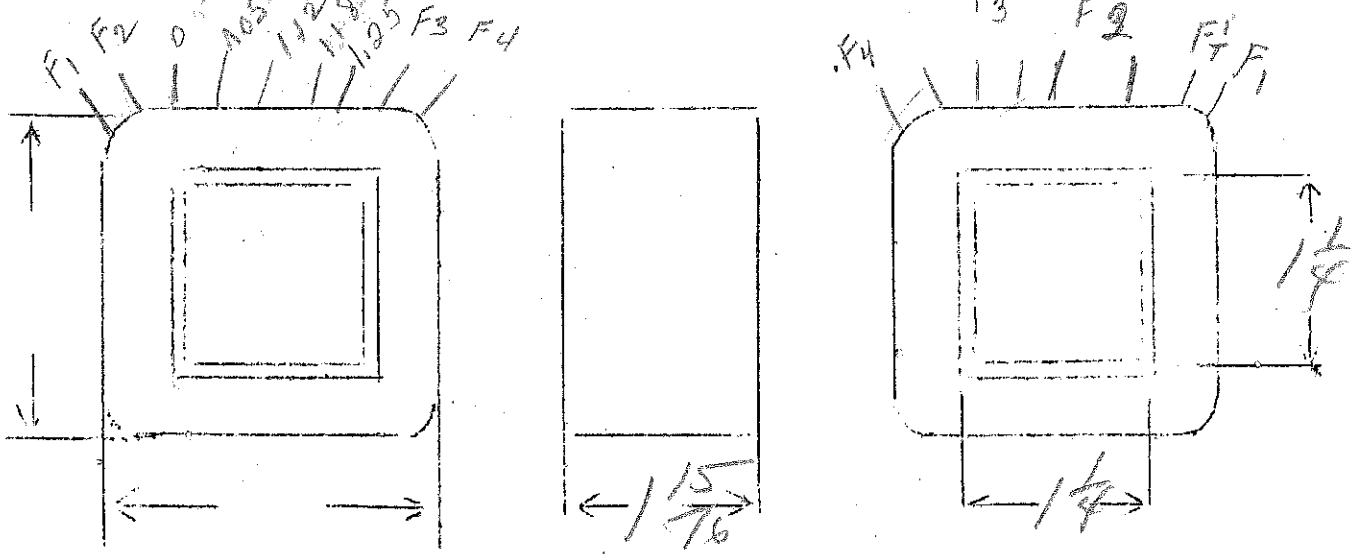
SPEC. NO. 1280

Winding	PRI	F_1	F_2	F_3	F_4		
Turns	463 432	30	30	40	10		
Taps	415 390	15	15	20	5		
Wind. Lgth.	1.75	—	—	—	—		
Wire Size	#21	#14	#19	#18	#16		
T.P.L.	53	—	—	—	—		
Kind Term.	WIRE ONLY				→		
Term. Lgth.	3"	3"	3"		→		
Layer Insul.	50#	all filaments separated by 2L0076N					
Wrapper	2L0076N				2L0076N		

TUBE | NAT | IMPREGNATION | VARNISH

CURE | 1½ x 1½ | 2 x 2

mark lead position as wound



Miller # 111 Kit

$E_p = 118V$

$E_s = 800V - 55$ ma

$E_{F_1} = 5V - 2$ amps

$E_{F_2} = 2.5V - 7$ amps CT

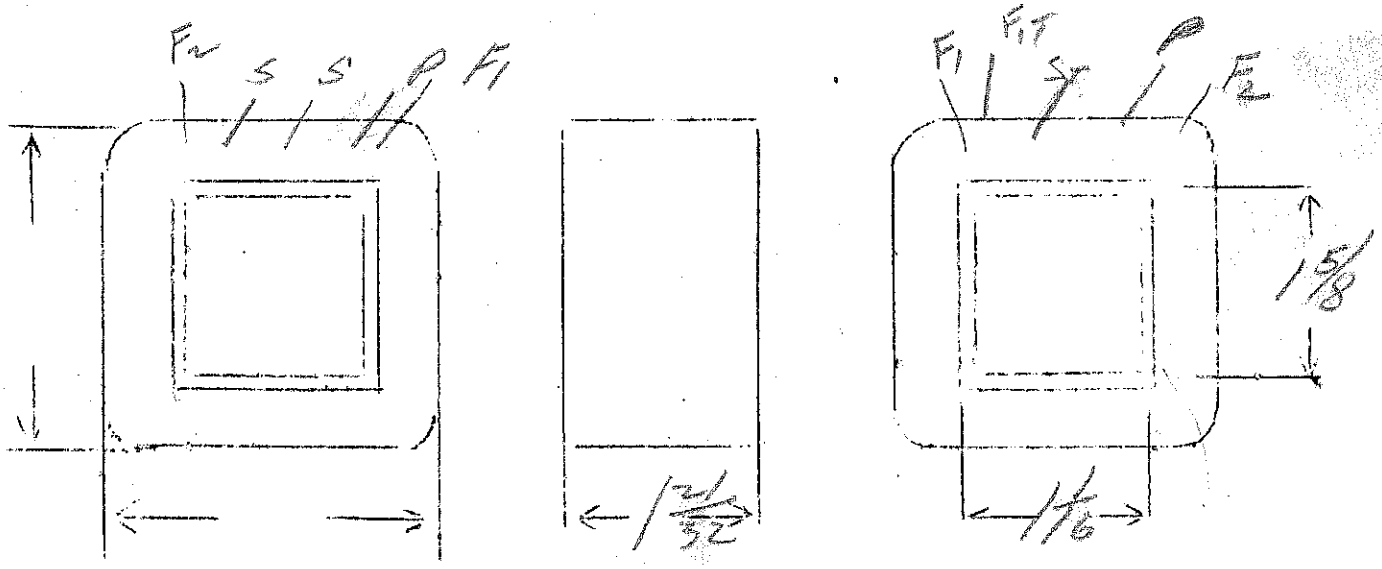
$\frac{N}{E} = 3.3$

SPEC. NO. 1281

Winding	SEC	SHIELD	PRI	F_1	F_2		
Turns	2850	165	390	18	9		
Taps	1425	—	—	—	5		
Wind. Lgth.	$1\frac{15}{32}$	$1\frac{15}{32}$	$1\frac{15}{32}$	—	—		
Wire Size	#33	#33	#23	#19	~~Same~~ #19		
T.P.L.	165-18	165	56-7	18	9		
Kind Term.	#20 Par.	Silver	#20 Par.	WIRE ONLY			
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	30 #		40 #				
Wrapper	KL00JKC	KL00JKC	2L00560	2L00560	2L00560		

TUBE | 3L Laminated 5L007 | IMPREGNATION | VARNISH

CURE | $1\frac{1}{16} \times 1\frac{5}{8}$



E_p = 230

E_s = 320 V – 1 watt

E_{F_1} = 6.3 V – 3 amps

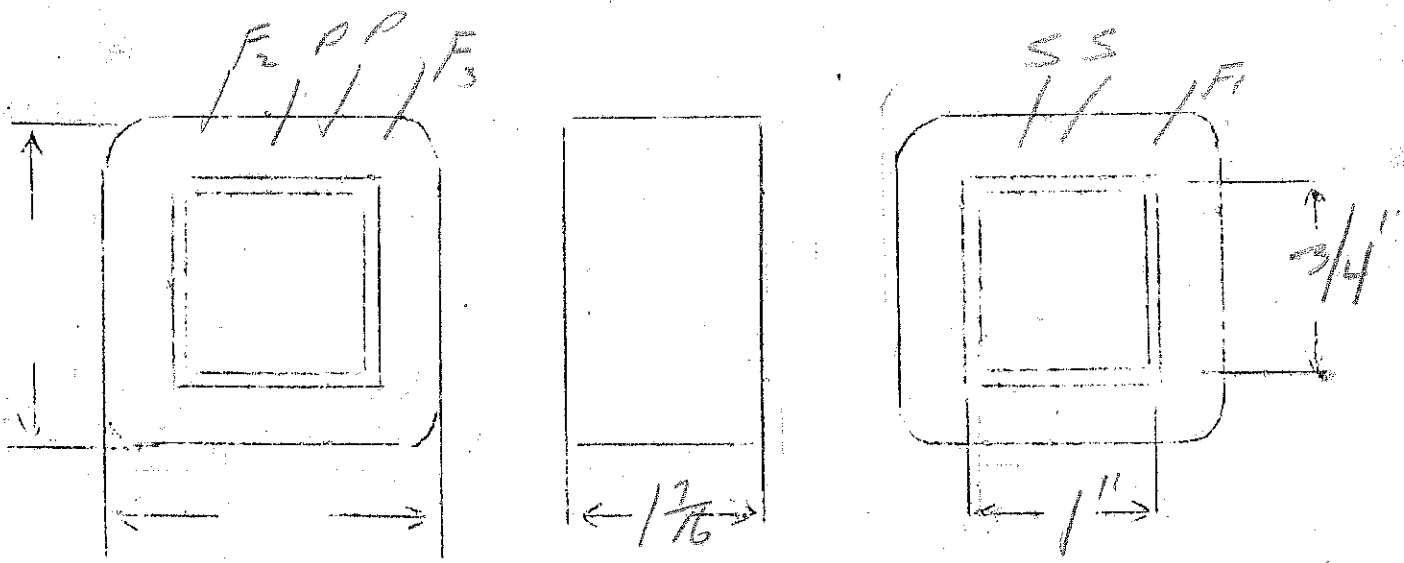
E_{F_2} = 5 V – 3 amps

SPEC. NO. 1284

Winding	P	S	F_1	F_2			
Turns	1730	2600	52	42			
Taps	—	—	—	—			
Wind. Lgth.	1.25	1.25	—	—			
Wire Size	#30	#38	#18	#18			
T.P.L.	108-16	262-10	26-2	21			
Kind Term.	Sil. Br.	Sil. Br.	→	→			
Term. Lgth.	3"	3"	3"	3"			
Layer Insul.	30#	16#	—	—			
Wrapper	41007VC	21005GA	21005GA	21005GA			

TUBE | 41007 | IMPREGNATION | VARNISH

CURE | 1 X 3/4 NW



@ mount 2 only diagonal RHMS, when shipping, furnish 2 - 2 1/4 RHMS & 4 nuts (Loose)

E_p = 115V

E_s = 500V C.T. – 200 Ma

E_{F_1} = 5V – 3 amps

E_{F_2} = 6.3V C.T. – 4.5 amps

VA = 95

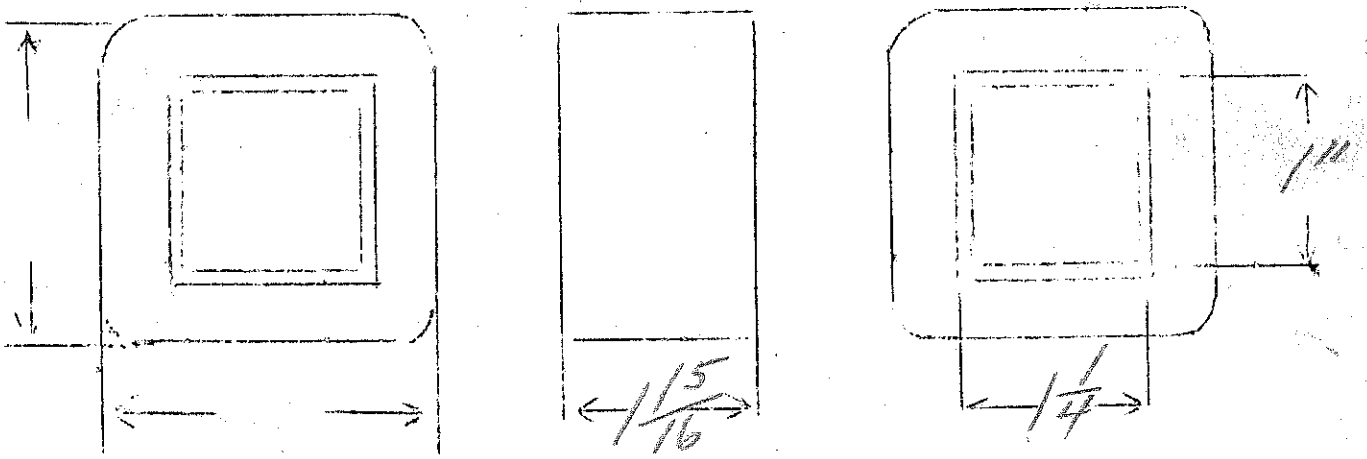
$\frac{N}{E}$ = 4.55

SPEC. NO. 1285

Winding	SEC	SHIELD	PRI	F_1	F_2		
Turns	2500	139	520	25	32		
Taps	1250		—	—	16		
Wind. Lgth.	1.25	1.25	1.25	—			
Wire Size	#29	#29	#22 ES-8	#18	#16		
T.P.L.	139-18	139	59-9	1C	1C		
Kind Term.	#20 PBr	oil Bk	#20 PBr	WIRE	INLT		
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	30#		40#				
Wrapper	KLOTH C	KLOTH C	2 Wds 5GA	2 Wds 5GA	2 Wds 5GA		

TUBE | JL007 | IMPREGNATION | VARNISH

CURE | 1/4 x 1" NW



ZACK

E_P = 115V

E_S = 5000V CT - 350MA

$\frac{N}{E}$ = 1.33

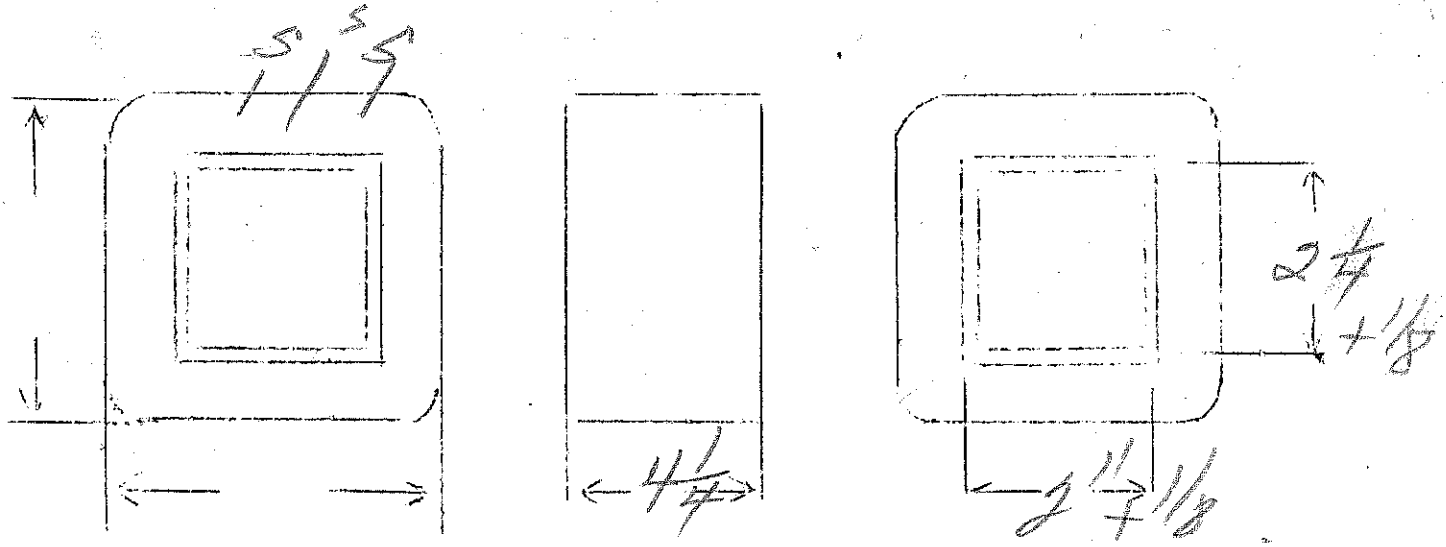
SPEC. NO. 1286

Winding	SEC	PRI					
Turns	7400	154					
Taps	3700	—					
Wind. Lgth.	3 3/4	—					
Wire Size	#26	#12					
T.P.L.	206-36	4C.					
Kind Term.	WIRE ONLY						
Term. Lgth.	6"	6"					
Layer Insul.	50#						
Wrapper	2 LAYERS 2 LAYERS JL 10 KR						

TUBE | 2 LAYERS 2 LAYERS | IMPREGNATION | VARNISH

CURE | 2 X 2 1/4"

TIGHT!



STACK

E_p = 110 - 115 - 120

E_s = 10.5V - 7 amps

$\frac{N}{E}$ = 6.2

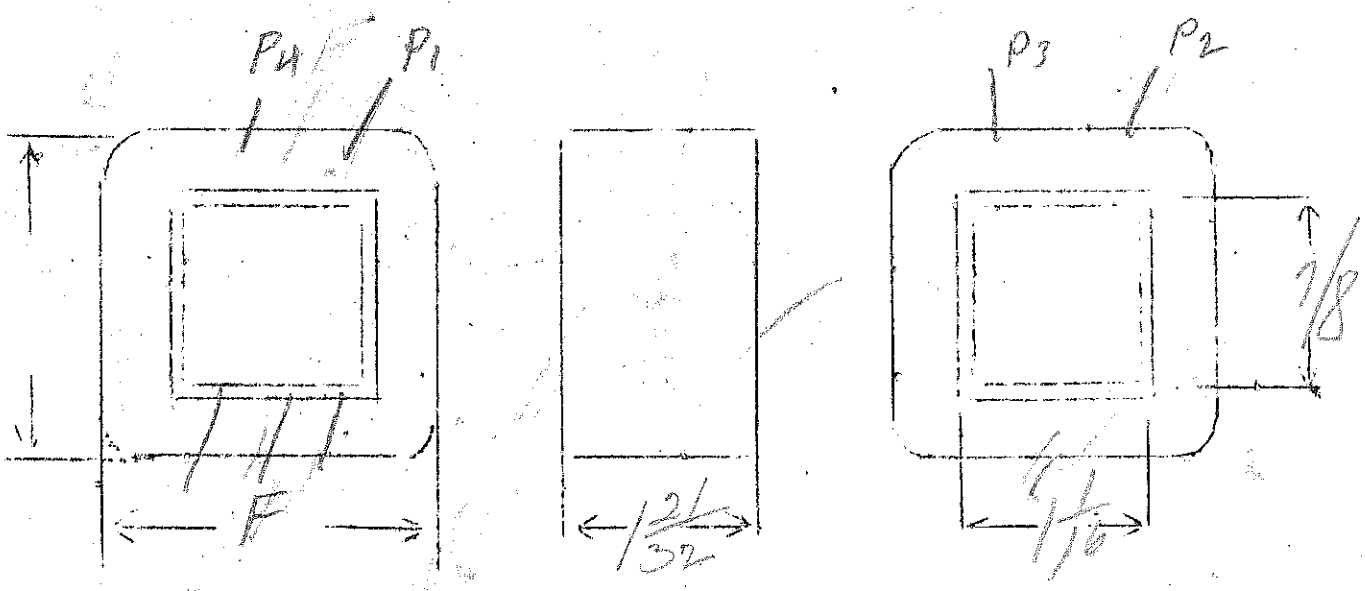
2500V insulation

SPEC. NO. 1287

Winding	PRI	FIL					
Turns	745 +14	72					
Taps	683	36					
Wind. Lgth.	1 15/32						
Wire Size	#24	#14					
T.P.L.	62						
Kind Term.	wire	wire					
Term. Lgth.	6"	6"					
Layer Insul.	50						
Wrapper	~~BOARD~~	3L005GA					

TUBE | 2L007 | IMPREGNATION | VARNISH

CURE | 1 1/16 X 7/8



E_P = 115

E_{F_2} = 5 V – 6 amps

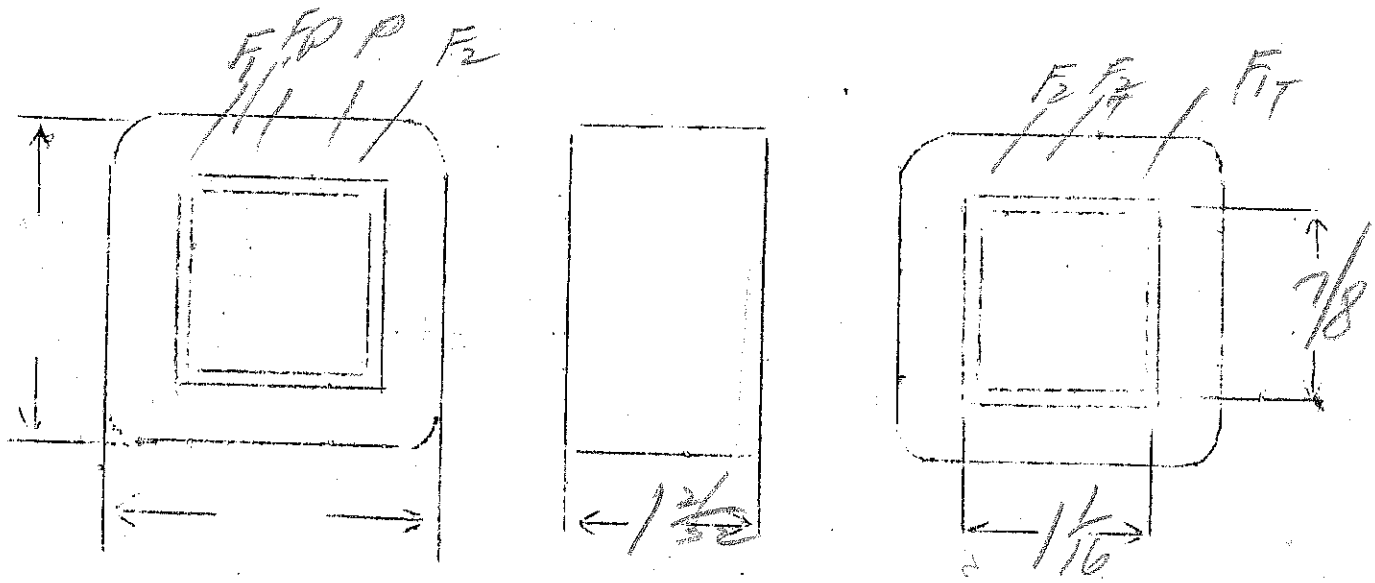
E_{F_1} = 2.5 V – 6 amps

SPEC. NO. 1288

Winding	P	Blue F_1	Green F_2				
Turns	660	48	32				
Taps	—	24	16				
Wind. Lgth.	1 15/32	—	—				
Wire Size	25	#15	#15				
T.P.L.	62-10	—	—				
Kind Term.	Wire	WIRE	WIRE				
Term. Lgth.	3"	3"	3"				
Layer Insul.	3 #	—	—				
Wrapper	3L0056B	3L0056A	3L0056D				

TUBE | 4C007 | IMPREGNATION | V.

CURE | 1 Hr @ 175°



Ep = 115

E_{S_1} = 750 V – 125 MA

E_{F_1} = 5V – 3.25 AMPS

E_{F_2} = 2.5V – 3 AMPS

E_{F_3} = 2.5V – 5.5 AMPS CT

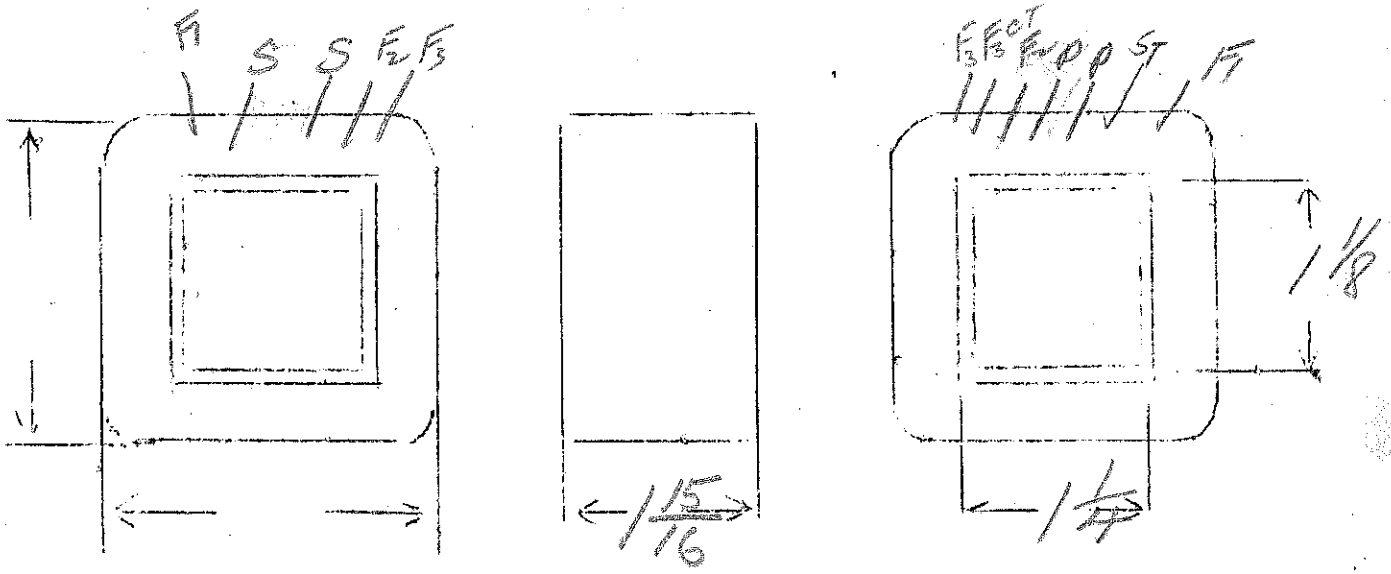
P & S REVISED 4-7-57

SPEC. NO. 1289

Winding	SEC	SHIELD	PRI	F_1	F_2	F_3	
Turns	3180	180	460	22	11	11	
Taps	1590	—	—	—	—	5	
Wind. Lgth.	1.75	1.75	1.75	—	—	—	
Wire Size	#32	#32	#22	#18	#18	#16	
T.P.L.	180-18	180-1	58-8	—	—	—	
Kind Term.	#20 PBE	SOL BR	#20 PBE	WIRE	ONLY		
Term. Lgth.	9"	3"	9"	9"	9"	9"	
Layer Insul.	30#		50#	—	—	—	
Wrapper	2L007VC	1L007VC	2L0076A	2L0076A	2L0076A	2L0076A	

TUBE | 2L007 | IMPREGNATION | VARNISH

CURE | 1 hr x 150°



$E_p = 115$

$E_s = 1000$ V.C.T. – 125 Ma $E_{F4} = 1.5$ V – 5 amps

$E_{F1} = 7.5$ V – 0.5 amps

$E_{F2} = 7.5$ V – 1.25 amps

$E_{F3} = 2.5$ V – 1.75 amps

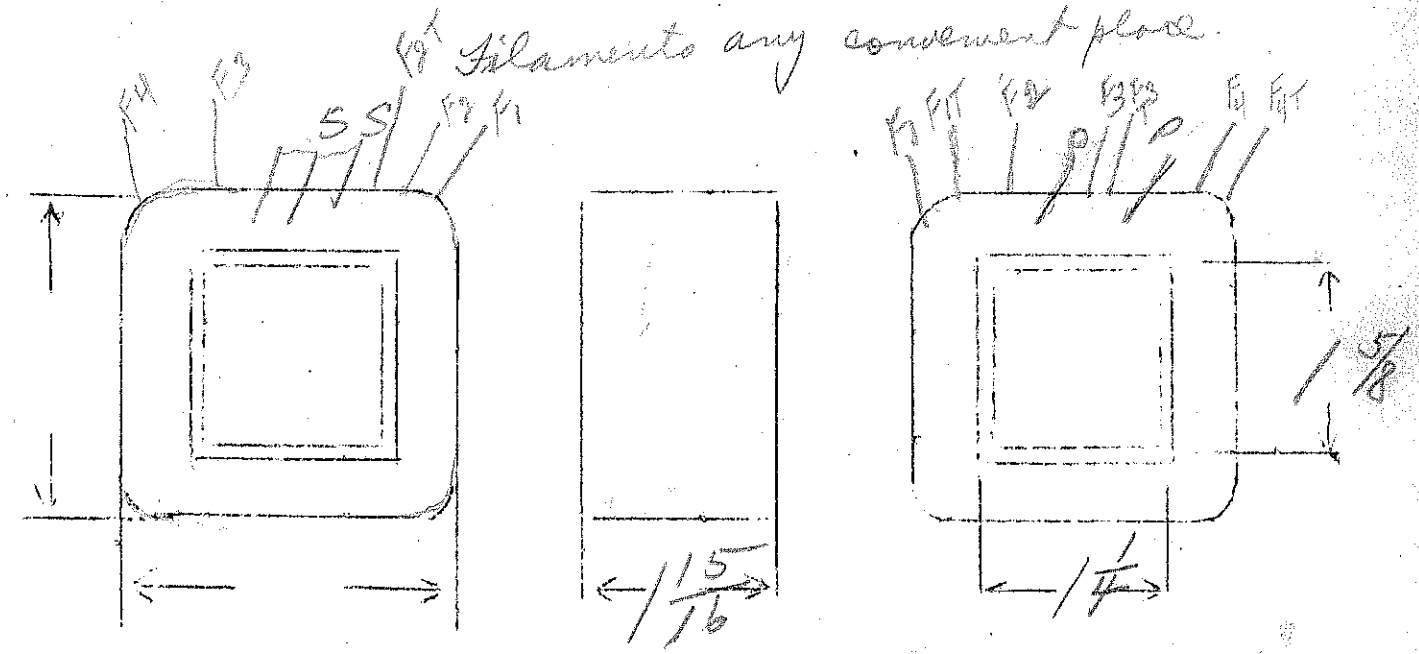
$\frac{N}{E} = 2.9$

SPEC. NO. 1290

Winding	SEC	SHIELD	PRI	F1 (White)	F2 (Blue)	F3 (Black)	F4 (Red)
Turns	3200	180	334	24	24	8	5
Taps	1600		—	12	12	4	2
Wind. Lgth.	1.75	1.75	1.75	—	—	—	—
Wire Size	#32	#32	#21	#19	#21	#20	#16
T.P.L.	180-18	180	56-6				
Kind Term.	#20 PBr	Sld Br	#20 PBr	WIRE ONLY			
Term. Lgth.	9	3	9	9	9	9	
Layer Insul.	30#	—	50#	—	—	—	
Wrapper	2L007VC	1L007VC	2L0076A	2L0076A	2L0076A	→	

TUBE | 2L007 & 1L007VC | IMPREGNATION | VARNISH

CURE | 1 1/4 X 1 5/8



P. 105–110–115–120

F_1 – 5V – 22 amps

F_2 – 2.5V – 12 amps

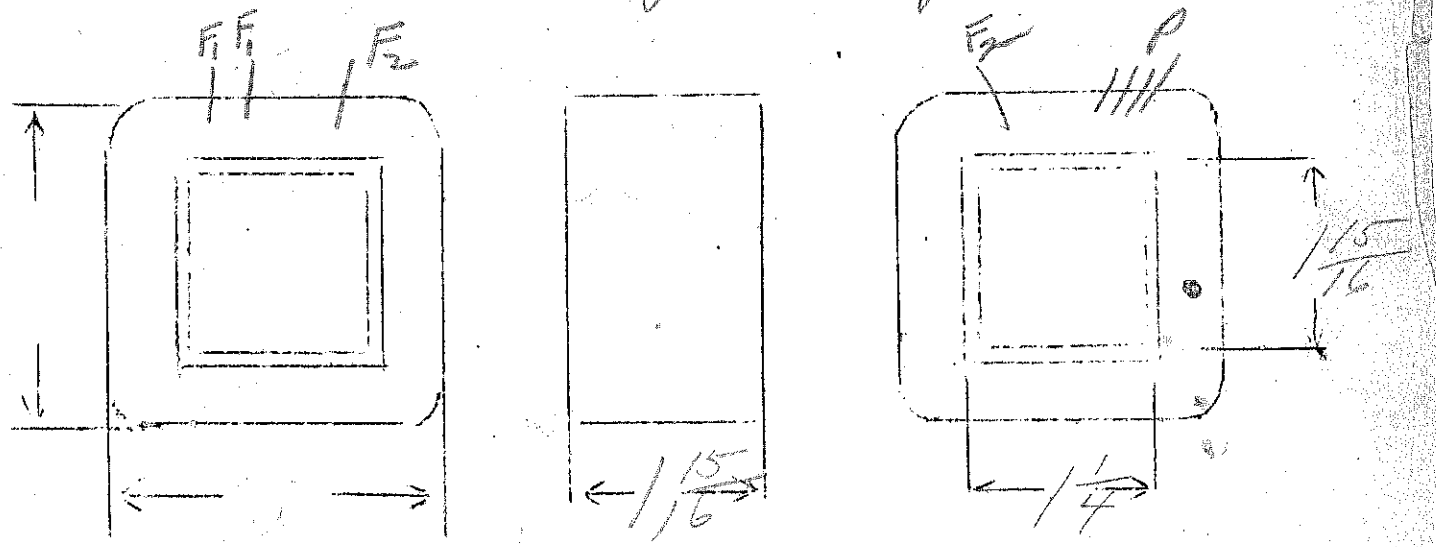
$\frac{N}{E} = 2.55$

SPEC. NO. 1291

Winding	P	F_1	F_2				
Turns	306 294	14	7				
Taps	280 269						
Wind. Lgth.	1.75	1.75	1.75				
Wire Size	#20	2 wire #12	2 wire #15				
T.P.L.		—	—				
Kind Term.		WIRE ONLY					
Term. Lgth.	6	6	6				
Layer Insul.	5 Mil 5L007VC	5L007VC	5L007VC				
Wrapper	2L007SA	2L007SA	2L007SA				

TUBE	7L007	IMPREGNATION	VARNISH
CURE	1 1/4 X 1 15/16		

Use V.C. in single winding underleads.



P = 115-144-190-250

Es = 5000 V.C.T. - 350 Ma

N/E = 1085

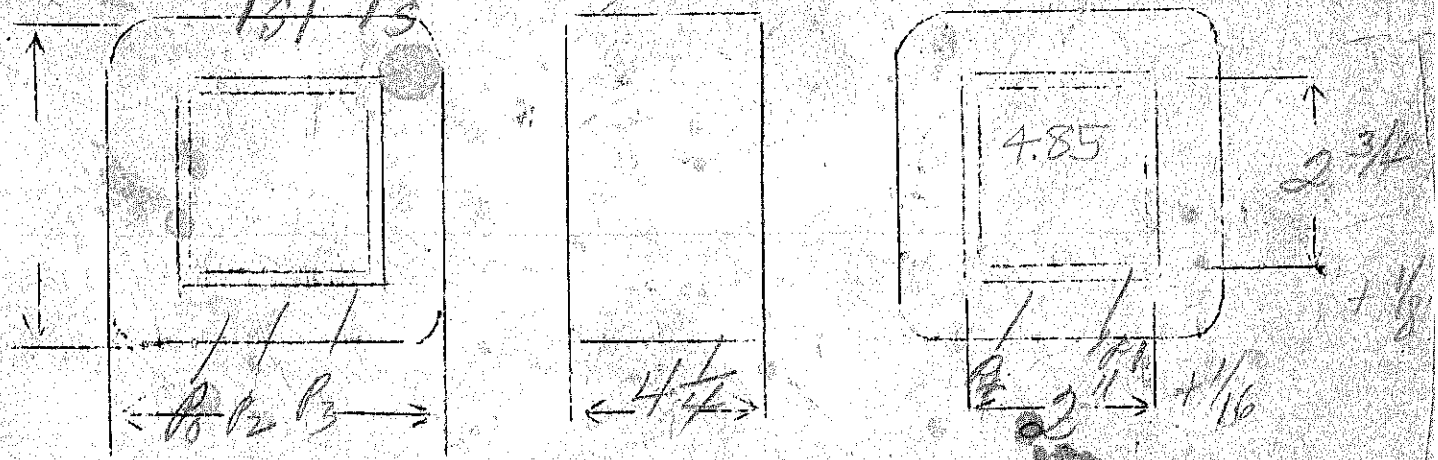
SPEC. NO. 1292

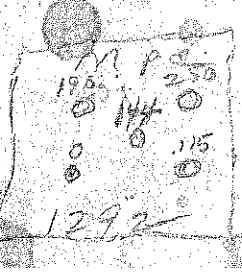
Winding	SEC	PRI	Continuous 2.0	26.5			
Turns	6100	125	30	50	65		
Taps	3050						
Wind. Lgth.	3 5/8						
Wire Size	#26	#12	#14	#16	#18		
T.P.L.	192-32	42-3	1 layer		1 layer		
Kind Term.	Solder-Glass P.B. WIRE ONLY						
Term. Lgth.	6" double	6"	6"	6"	6"		
Layer Insul.	.001 Paper		.005"				
Wrapper	Glass Cloth				Glass Cloth 11 oz DC		

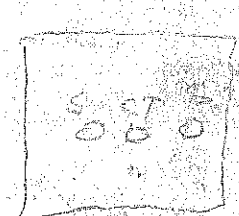
CUBE | 10L007+2L007VC | IMPREGNATION | VARNISH

CURE | 2" x 2 3/4"

Be sure to insulate well the core leads before winding primary!







Ep - 115 - 144 - 190 - 250

Es - 2500V - 350MA

$\frac{N}{E} = 1.33$

SPEC. NO. 1293

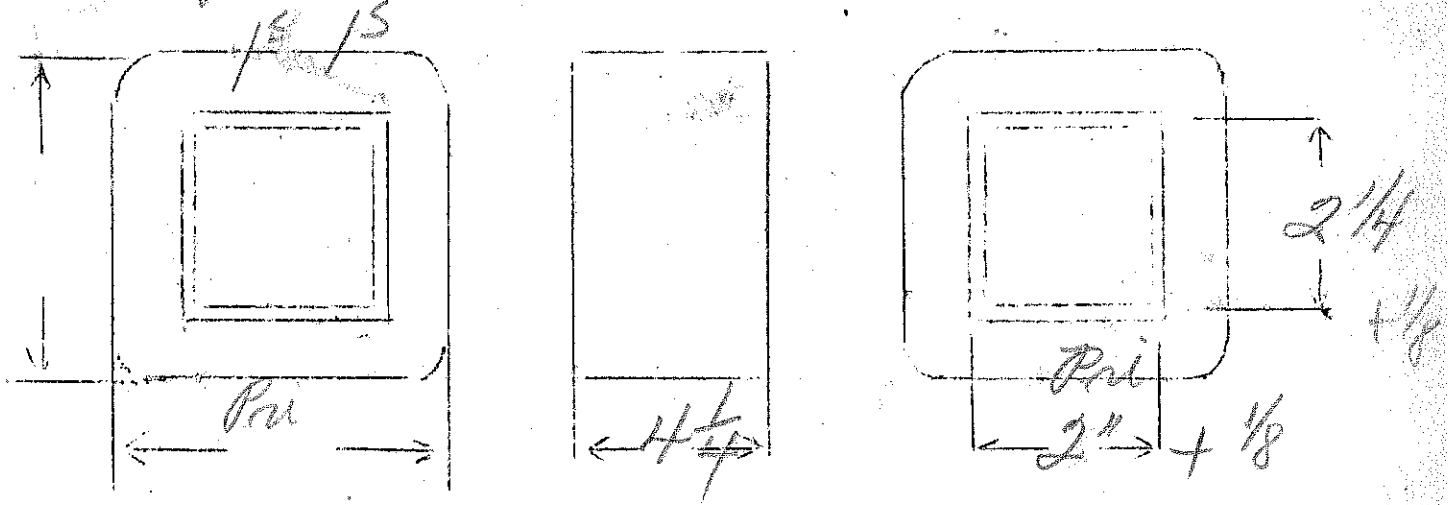
Continued

Winding	SEC	PRI					
Turns	3750	154	88	62	80		
Taps	—						
Wind. Lgth.	3 5/8						
Wire Size	#26	#12	#14	#16	#18		
T.P.L.	190-30						
Kind Term.	WIRE ONLY						
Term. Lgth.	6"	6"	6"	6"	6"		
Layer Insul.	50#		.005				
Wrapper	1 LAYER 5 MIL				2 LAYERS 5 MIL		

TUBE | 10L007T2407VC | IMPREGNATION | VARNISH

CURE | 2 X 2 1/4

Be sure to insulate over sec leads before winding primary



E_p = 115

E_s = 700 V.C.T. - 80 ma

E_{F_1} = 5V - 2 amps

E_{F_2} = 6.3V - 5 Amps

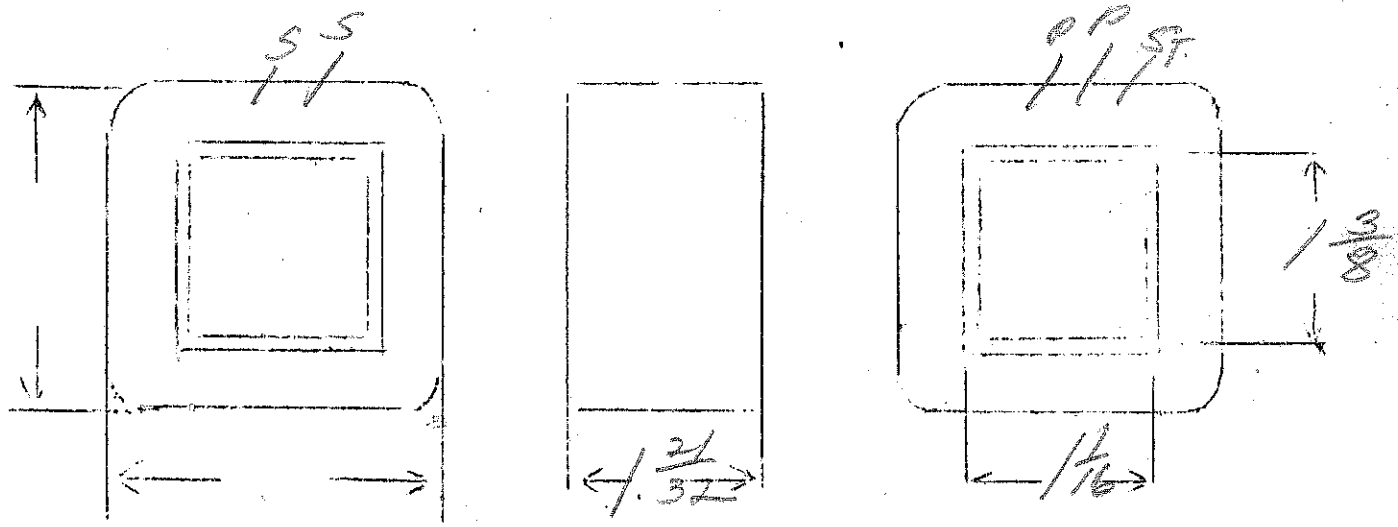
$\frac{N}{E}$ = 3.9

SPEC. NO. 1294

Winding	SEC	SHIELD	PRI	F_1	F_2		
Turns	3000	170	450	22	27		
Taps	1500	—	—	—	13		
Wind. Lgth.	$\frac{1}{32}$	$\frac{1}{32}$	$\frac{1}{32}$	—	—		
Wire Size	#33	#33	#23	#20	#18		
T.P.L.	120-18	170	57-8				
Kind Term.	#20 Brad Sld Bare		#20 Brad	WIRE ONLY			
Term. Lgth.	9	3	9	9	9		
Layer Insul.	#20	—	50#	—	—		
Wrapper	2Lm5VC	2Lm5VC	2Lm56A	2Lm56A	2Lm56A		

TUBE | 4L007 | IMPREGNATION | VARNISH

CURE | $1\frac{1}{16} \times \frac{3}{8}$



Same as #894 except,
E_p = 120V
E_s = 2300VCT - 300MA

N
E - 4.57

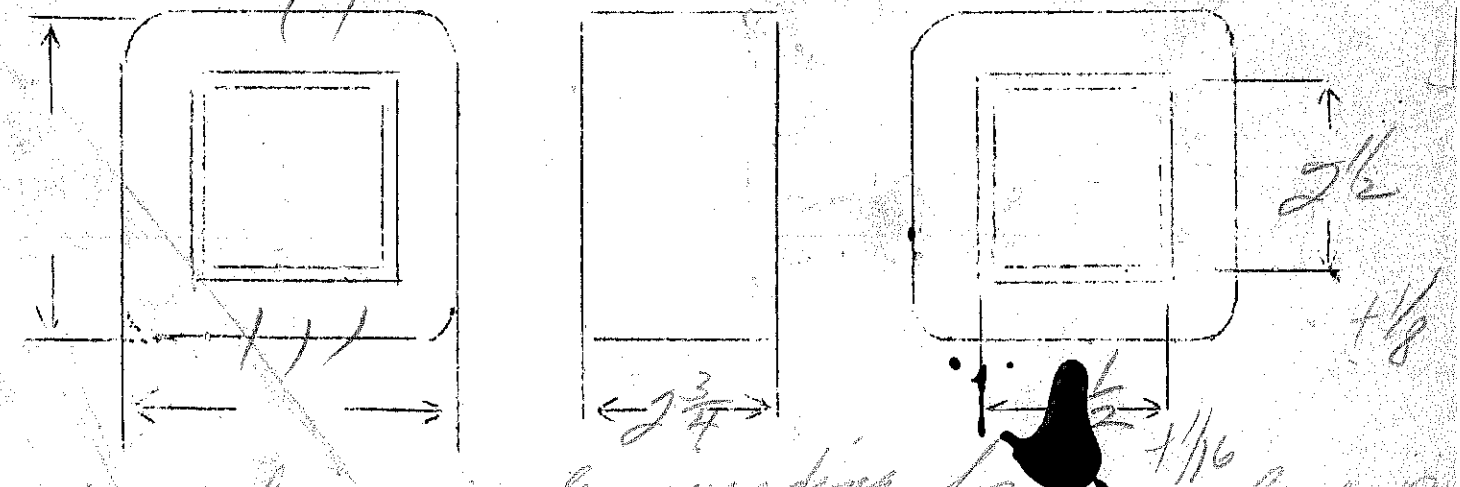
SPEC. NO. 1295

Winding	SEC	PRI					
Turns	4100	183					
Taps	2050						
Wind. Lgth.	2 3/8	2 3/8					
Wire Size	#37	#19					
T.P.L.	147-28	32	← very close winding				
Kind Term.	Paper covered	WIRE ONLY					
Term. Lgth.	3 1/4"	6"					
Layer Insul.	50 #	-					
Wrapper	#10356P #10356P	#10356P #10356P					

TUBE | 9L007+2L007VC | IMPREGNATION | VARNISH

CURE | 1/2 x 2 1/2

In assembly ground sec. CT to core
Put collar on primary side - channel iron type opening
Leg mounted on back



Cut panel on angle running for sec. Leads. Be sure to insulate under panel with #10356P and 2L007VC which is over primary under sec. Leads

E_p = 100 – 110 – 120 $\frac{E_p}{E_{s1}} = 3.7$

E_{s1} = 10 V – 8 amps CT

5000 V, 1 sec on E_{s2} only

E_{s2} = 2.5 V CT – 12 amps

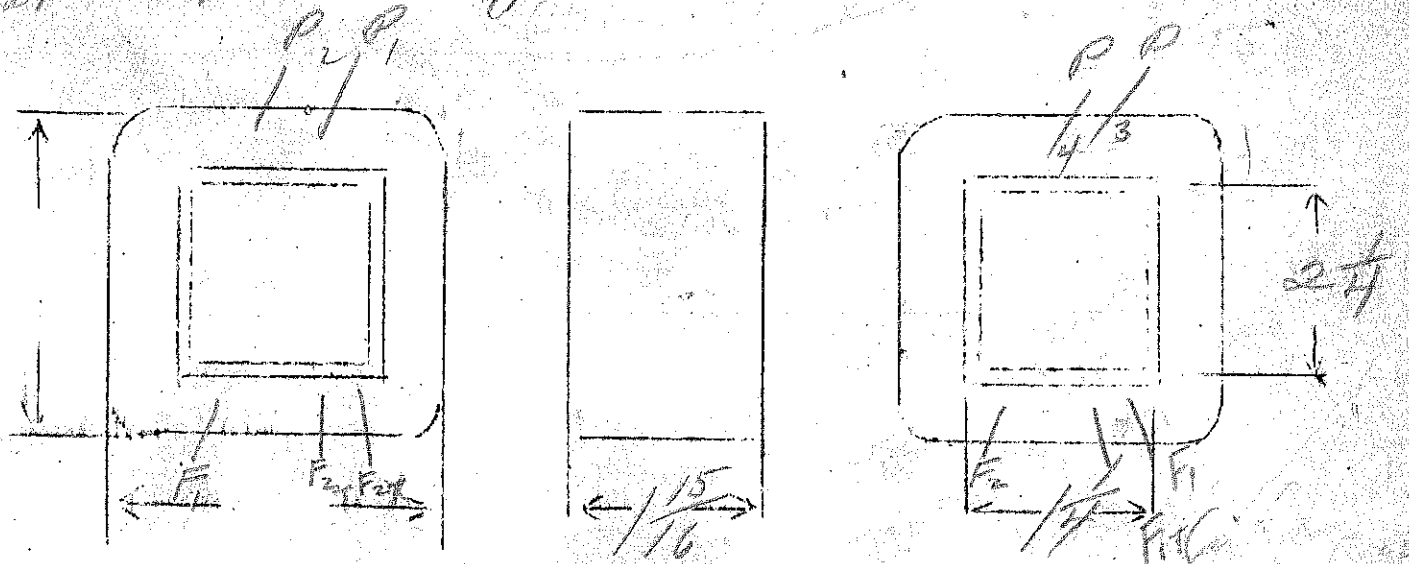
SPEC. NO. 1296 – 25 –

Winding	PRI	E_1	E_2				
Turns	443 407	41	10				
Taps	370	20	5				
Wind. Lgth.	1.175	—	—				
Wire Size	#20	#14	#11				
T.P.L.	479	2L					
Kind Term.	WIRE ONLY						
Term. Lgth.	3"	3"	3"				
Layer Insul.	50#	—	—				
Wrapper	2L007K	2L007K	2L007K				
	3L007K	3L007K	3L007K				

TUBE | 2L007 | IMPREGNATION | VARNISH

CURE | 1½ x 2¼

Same special mtg as 1296



Filament windings to comply to insulation tables.

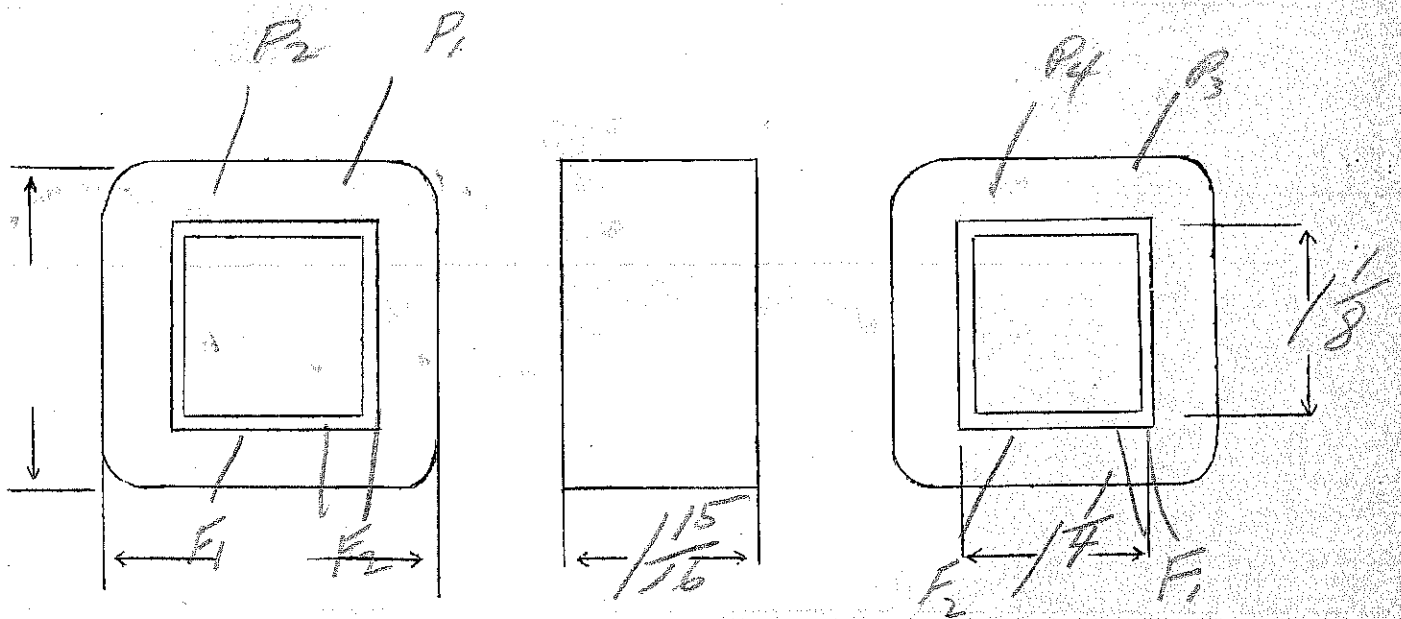
240, 230, 220
10V - 8amp CT
- 2.5V. C.T. - 12amp

SPEC. NO. 296-230V

Winding	PRI	F_1	F_2				
Turns	960 920 880	45	11 5				
Taps		22					
Wind. Lgth.	1.75	—	—				
Wire Size	#24	#14	#12				
T.P.L.	74						
Kind Term.	WIRE ONLY						
Term. Lgth.	3"	3"	3"				
Layer Insul.	50#						
Test Volt.	1.25M	2.5M	5M				
Wrapper	2L007A	2L007VC 2L007C 2L007B 2L007A					

TUBE	7L007	IMPREGNATION	VARNISH
CORE	1/2 x 1/8	PRIMARY V.A.	
MOUNTING	SF - Cadmium		

use 12" rubber covered motor cable #16 - #18CT



DESIGNED BY GMW DATE 12-28-36

FILAMENT

E_p-100 - 110 - 12 @ 6 0 2 (Fisher)

E_s- 10 V. - 8 Amp C. T.

E_3- 2.5 V. C. T. - 12 Amps.

SPEC. NO. 1296

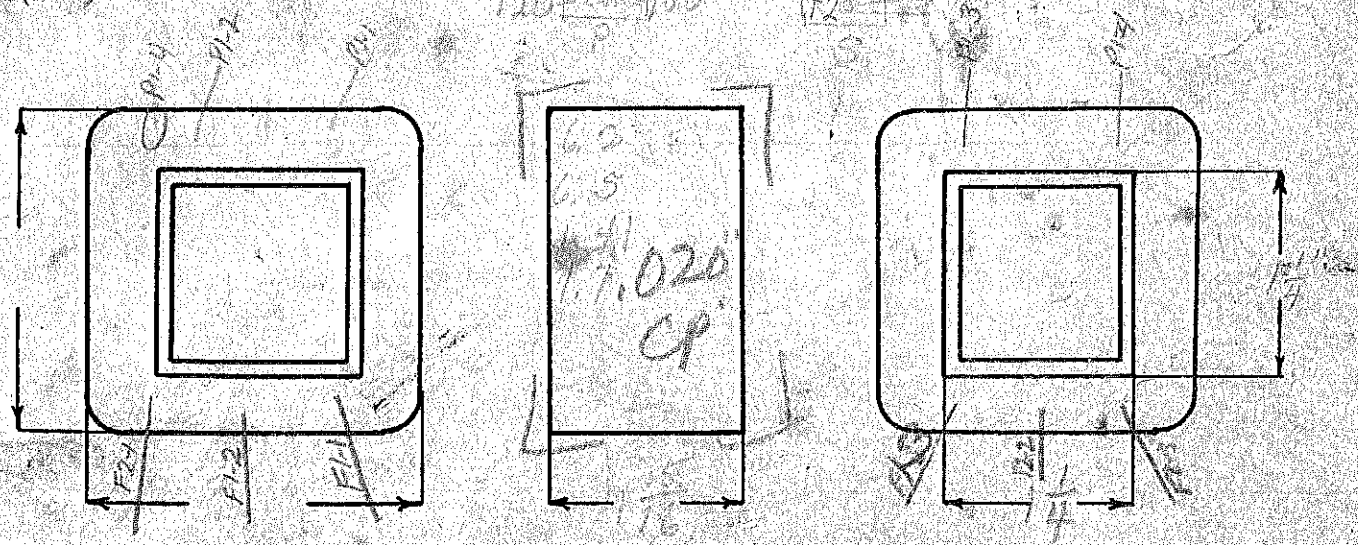
Winding	Pri	F1	F2				
Turns	480	45	11				
Taps	440-460	22	5				
Wind. Lgth.	1.75	~1 3/4"	~1 1/2"	Ends this winding on Coil.			
Wire Size	#21	#14	Double #15				
T. P. L.	00 - 10L	23 - 2L	11 - 1L				
Finish	85%	86 1/2%	86%				
Type Lead	W. O.	W. O.	W. O. VINYL. SLV.				
Lead Lgth.	6"	6	6	Be sure and pull twice around on all taps.			
Layer Insul.	1-L 50-48 G	1-L .010" Cp	—				
Test Volt.	1500	1500	5000				
Wrapper	1L.007"VC 2L.007GA	2L.007VC 2L.00GA	2L.007VC 2L.007GA				

TUBE FI.007 + 1/2 .005"VC | IMPREGNATION | VARNISH

CORE 1¼ x 1¼ GA. 24 GRADE D STACK 2x2

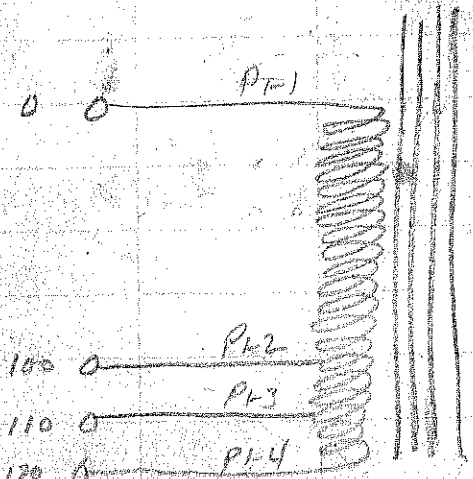
MOUNTING SE - Pri to lugs in panel - both filaments out 5" shell, 4"

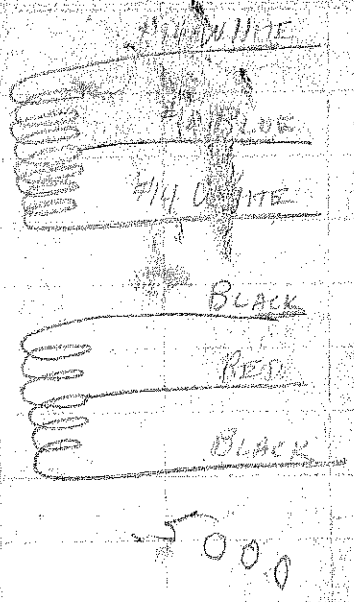
C. = 551-513-544 with 1.4" rubber covered white motor cable 14 - # 18 C. T.s
Fe = 68.2 @ 60N Cadmium plated cases.
TPV = 4.00
WN = .517 (.523)



DESIGNED BY CWW DATE 10/15/36

#157





Fil. #1
10V. C-T @ 5A

Fil. #2
2.5V. C-T @ 12A

Sec I under 130 ma

$E_p = 115V$

$E_{F_1} = E_{F_2} = 5V$ C.T. - 2 amps

$E_{F_3} = 5V$ 4 amps

$E_{F_4} = 7.5V$ - 5 amps

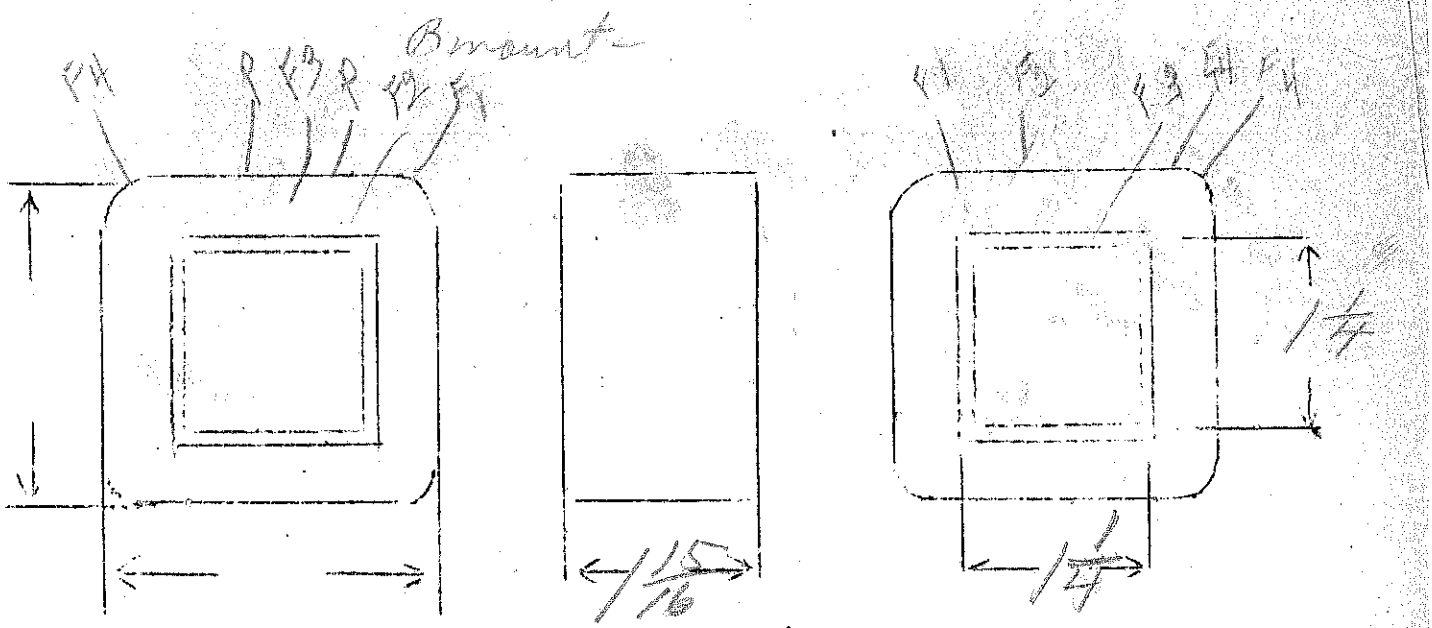
3500V Bno. $\frac{N}{E} = 39$

SPEC. NO. 1297

Winding	PRI	F_1	F_2	F_3	F_4		
Turns	446	22	22	22	31		
Taps	—			—	15		
Wind. Lgth.	1.75						
Wire Size	#21	#19	#19	#16	#15		
T.P.L.	56-8						
Kind Term.	WIRE ONLY						
Term. Lgth.	3"	3"	3"				
Layer Insul.	5 Mil						
Wrapper	Glass Cloth	→	→	→			

TUBE 7L007 | IMPREGNATION | VARNISH

CURE 1 hr x 135°



Road Instrument

Ep = 115V

Es = 2.5V - 1amp

175

SPEC. NO. 1298

Winding	PRI	SEC					
Turns	2000	48					
Taps	—	—					
Wind. Lgth.	3/4	3/4					
Wire Size	#35	#22					
T.P.L.	112-18	2L					
Kind Term.	#20 PBr	#20 PBr					
Term. Lgth.	9"	9"					
Layer Insul.	3 0 #						
Wrapper	2L0056A	2L0056A					

TUBE | 4L007 | IMPREGNATION | VARNISH - DIP LAMINA

CURE | .6X.6 .2X2