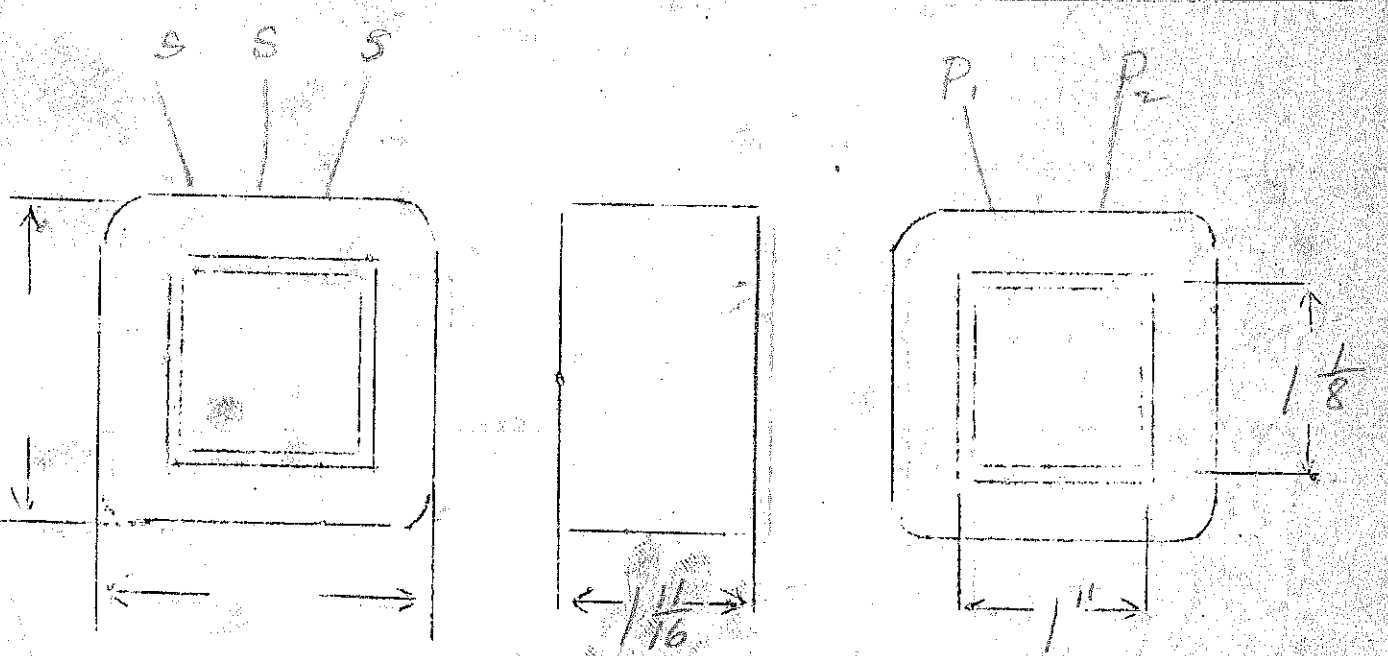


$E_p = 115 V$
 $E_s = 780 (open) - 60 Ma$
 $E_{F_1} = 5V - 2amps$
 $E_{F_2} = 2.5V - 5amps$

SPEC. NO. 2001

Winding	PRI	SHIELD	SEC	F ₁	F ₂		
Turns	565	215	3700	28	15		
Taps	—	—	1850	—	8		
Wind. Lgth.	1.5	1.5	1.5	—			
Wire Size	#26	#35	#35	#20	#16		
T.P.L.	72-8	215	215-18				
Kind Term.	#20 P.BR	SIL BR	#22 P.BR	WIRE ONLY			
Term. Lgth.	8"	3"	8"	8"	8"		
Layer Insul.	30#		20#				
Wrapper	1L005VC	1L005VC	2L005GA	2L005GA			
TUBE	7L007			IMPREGNATION		VARNISH	
CURE	1 X 1 1/8" RECLAIMED						



115v Pri, 60v
5600, 4400v CT @ 40ma

Root Co.

2 Sheets
Sheet # 2

SPEC. NO. 2002 Rev.

Winding

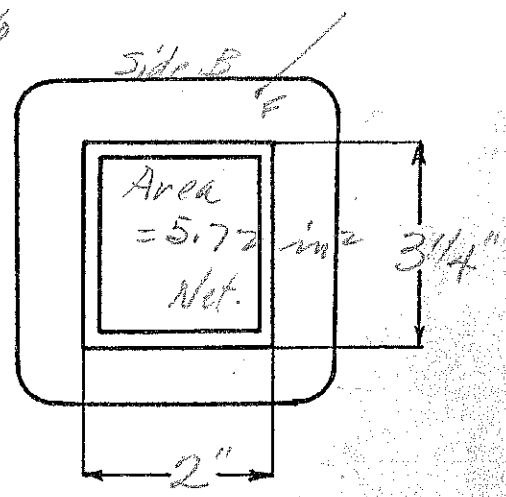
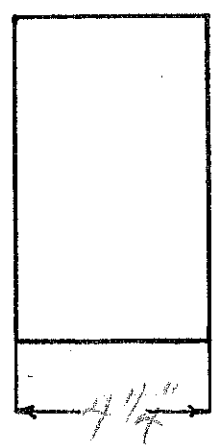
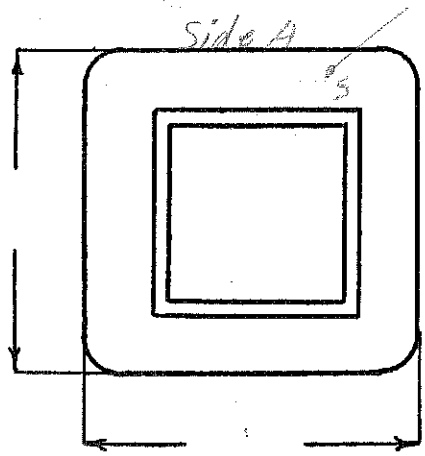
Winding		Pri				
Turns		125				
Taps		-				
Wind. Lgth.		3 3/4" = 3.75"				
Wire Size		2-#14				
T. P. L.		25-5W ay 20				
Finish	Pitch	88%				
Type Lead		Wire Only Sleeving				
Lead Lgth.		6"				
Layer Insul.		2L 005" GA				
Test Volt.						
Wrapper		2L-007" VC 2L-007" GA				

TUBE	3L-007" GA OVPD Secondary Pipe	IMPREGNATION	Vaumnish
------	-----------------------------------	--------------	----------

CORE	2" x 3 1/4"	GA.	24	GRADE	D	STACK	2x2
------	-------------	-----	----	-------	---	-------	-----

MOUNTING C.C.

$C_v = 630$
 $F_e = 60.7 \text{ max @ } 60\text{-v}$
 $TPV = 1.08$
 $\text{Wire Net} = 1.060" (1.000")$
 $Sec VA = 1120$
 $Pri VA = 1500$
 $Pri I = 13 \text{ amp}$
 $\eta = 83\%$
 $cos \phi = 90\%$



DESIGNED BY HNS

OVPD

DATE 6-26-41

115v Pri, 60w
5600, 4400v C T @ 400ma

Root Co.

2 Sheets
Sheet #1

Wind 2 } Note: Two of these to be wound.

SPEC. NO. 2002 Rev.

Winding		Sec				
Turns		3300	} ← (10%)			
Taps		2530		← End 24th layer		
Wind. Lgth.		2"				
Wire Size		#26				
T. P. L.		106-33L	← Spiral last layer			
Finish	Black	90%				
Type Lead		#22				
Lead Lgth.		7"	Duke - VC Splicing over.			
Layer Insul.		2L 30#6				
Test Volt.		7000"				
Wrapper		3L-007"VC 2L-007"GA				

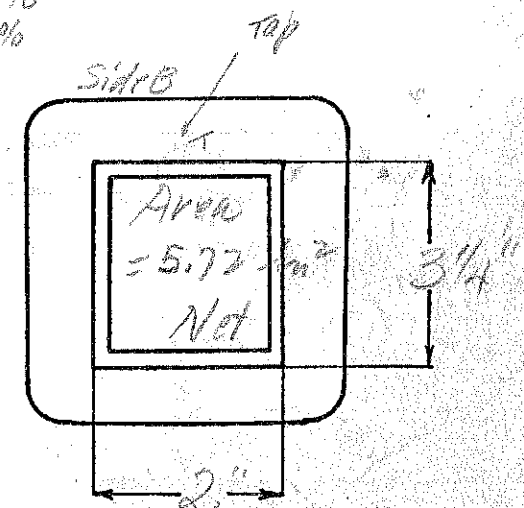
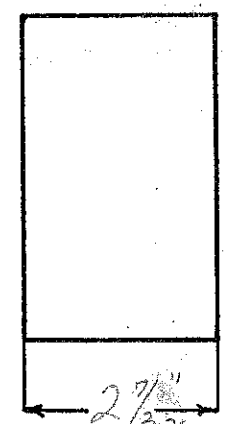
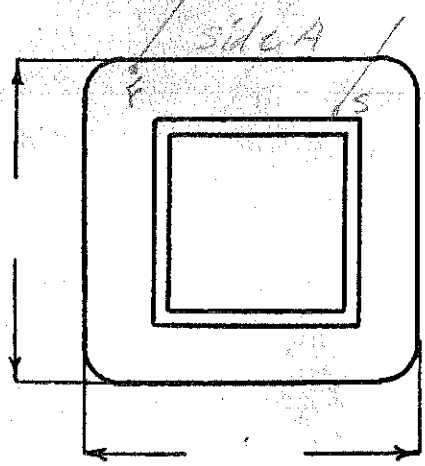
TUBE	10L-007" GK + 2L-007" VC	IMPREGNATION	Varnish
------	--------------------------	--------------	---------

CORE	2"	GA.	24	GRADE	D	STACK	242
------	----	-----	----	-------	---	-------	-----

MOUNTING BB Note: Two Sec. Pies for Transformer.

Cu = 635 @ 400ma
Fe = 607 @ 60v
TPV = 1.08
Wire Net = 1.060 (1.100")

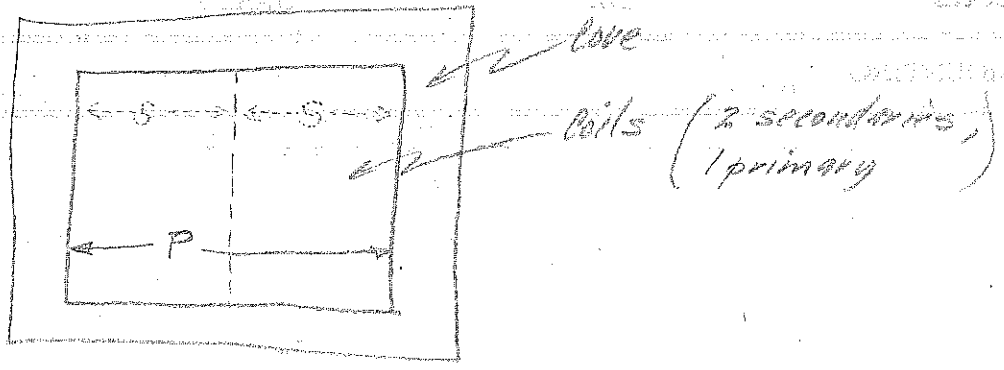
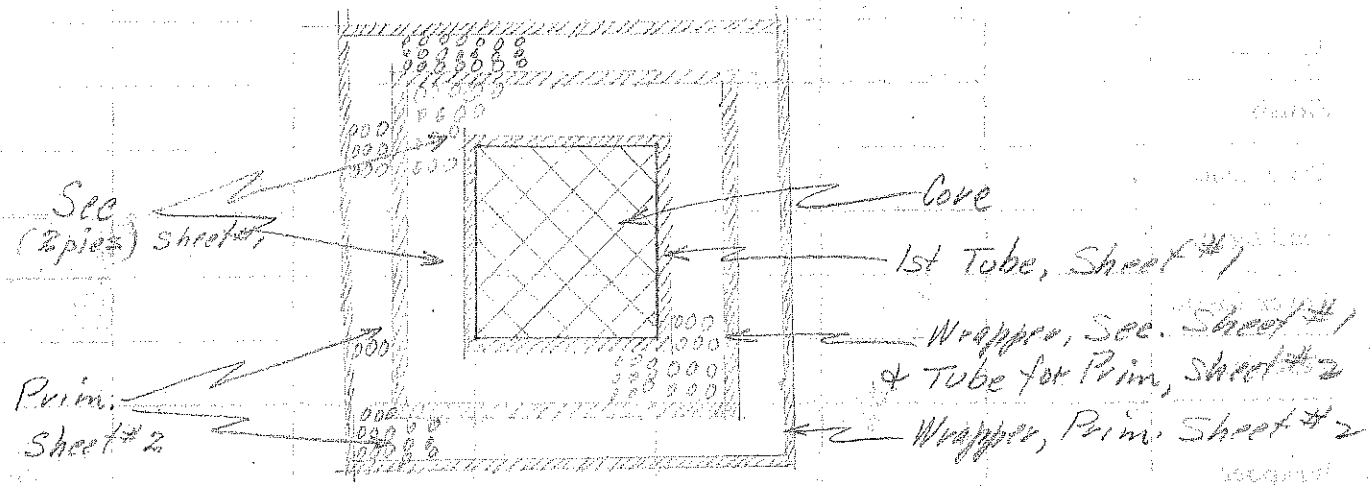
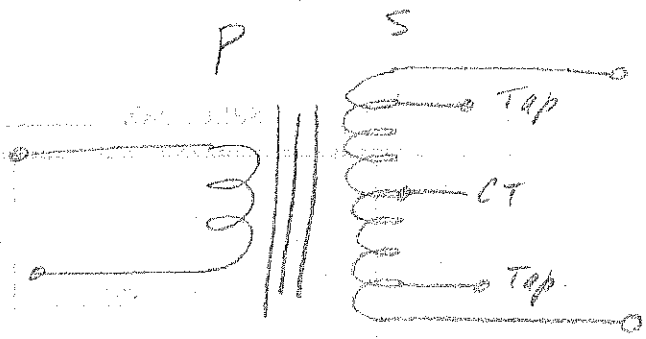
Sec VA = 1120
Pri VA = 1500
Pri I = 13 amp.
 $\eta = 83\%$
 $\cos\theta = 90\%$



DESIGNED BY HWS.

(over)

DATE 6-26-41



Note: Two Secondaries (two pies) are wound up first; wrapper over each sec.; tube for prim. wound over both secondaries; prim. wound over both pies.

Install Sec Pies, one reverse direction of other; Sides "B" inside, one against the other.

Bring secondaries out on each side under primary, VC sleeve over leads, 2L-007 VC under and over leads.

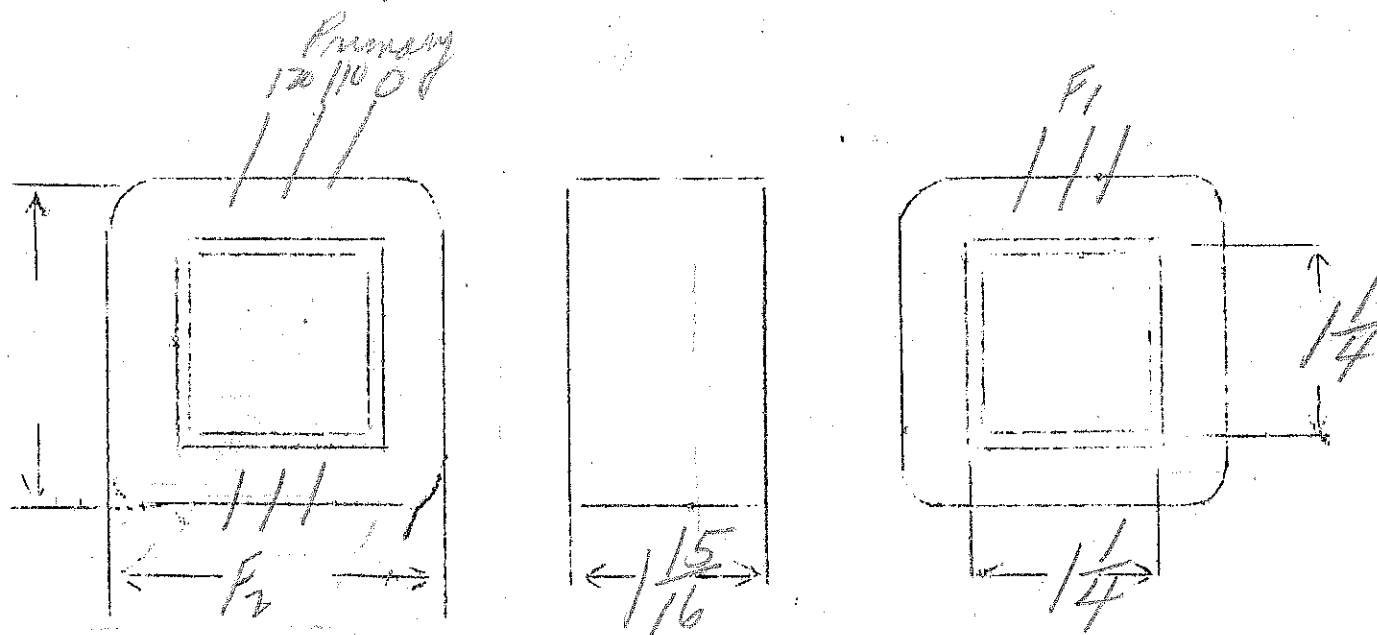
Ep-110-120

EF₂ - 2.5V - 10amps - 7500V. Ins, 364

EF₁ - 5V - 20amps

SPEC. NO. 2003

Winding	PR1	F ₁	F ₂				
Turns	437	20	10				
Taps	400	10	5				
Wind. Lgth.	1.75						
Wire Size	#21	Double #12	Double #15				
T.P.L.	53-9						
Kind Term.	WIRE ONLY						
Term. Lgth.	4"	4"	4"				
Layer Insul.	50#	007					
Wrapper	210076A	32007VC 110076A	32007VC 210076A				
TUBE	72007			IMPREGNATION	VARNISH		
CURE	1/4 X 1/4						



Ep-115

(5)

61224

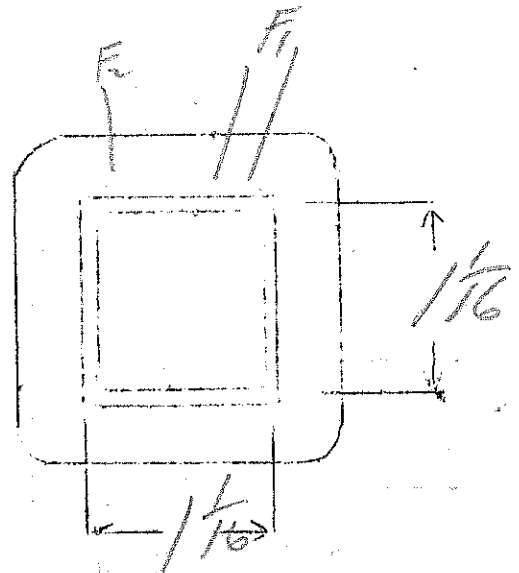
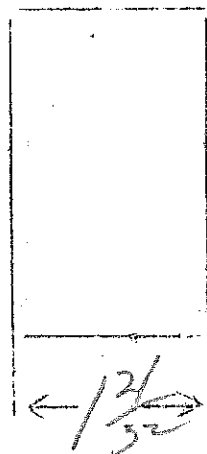
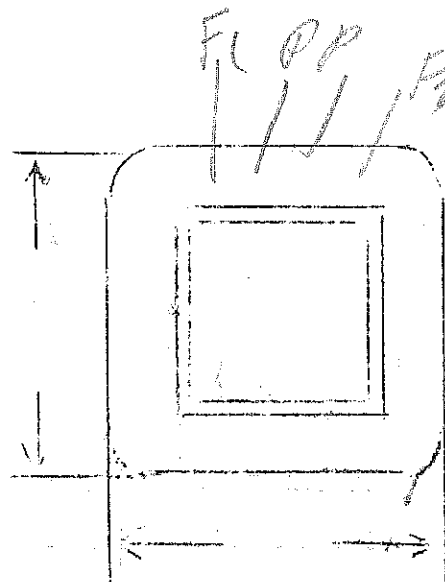
EF₂ - 5V - 6amps - 3500V Ins.

EF₁ - 7.5V - C.T. - 4amps

SPEC. NO.

2004

Winding	PR1	F ₁	F ₂				
Turns	575	41	27				
Taps	-	20	-				
Wind. Lgth.	1 15/32						
Wire Size	#24	#17	#15				
T.P.L.	58-10						
Kind Term.	WIRE	ONLY					
Term. Lgth.	3"	3"	3"				
Layer Insul.	40#	-	-				
Wrapper	20056A	20056A	20056A				
TUBE	7L007			IMPREGNATION		VARNISH	
CURE	1/16 X 1/16		2x2				



Ep - 115 Volts

$\frac{N}{E} = 1.2$

Es - 4000 V.C.T - 450mA

Breakdown 7500 Volts

VA = 900 watts

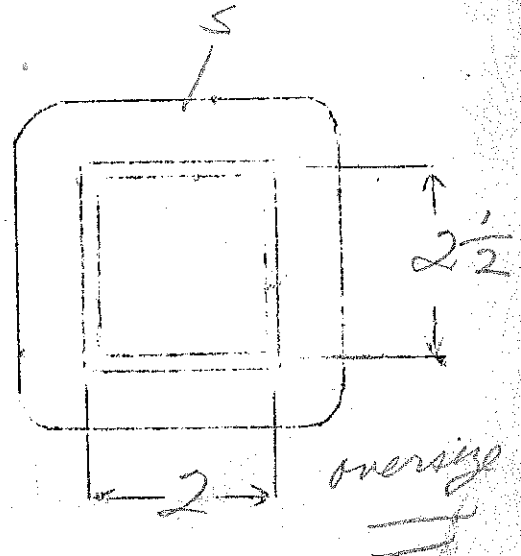
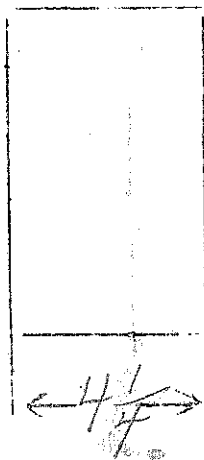
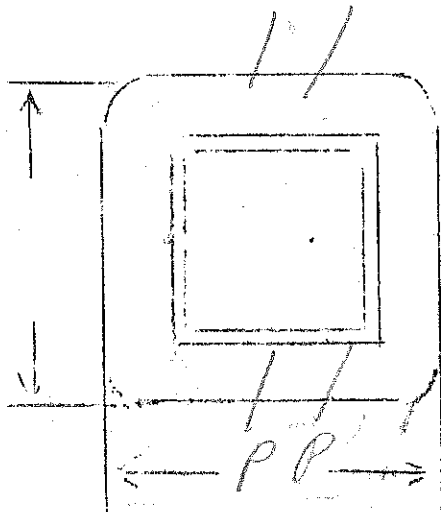
415 X 5

SPEC. NO.

2005

Winding	SEC	PRI				
Turns	5200	138				
Taps	2600	-				
Wind. Lgth.	$3\frac{5}{8}$	$3\frac{5}{8}$				
Wire Size	#25	#11				
T.P.L.	174-30	4L				
Kind Term.	WIRE ONLY START #20	WIRE ONLY				
Term. Lgth.	QUADAX - V3 COVERED 6"	6"				
Layer Insul.	double 40#	.007 KRAFT				
Wrapper	4L007VC 2L005GA	2L005GA 1E010RR				
TUBE	10L007 + 2L007VC		IMPREGNATION		VARNISH	
CURE	2 X 2 1/2		24 GA DIAPHRAGM			

MTG - "G" with thru-panel insulators on Sec.



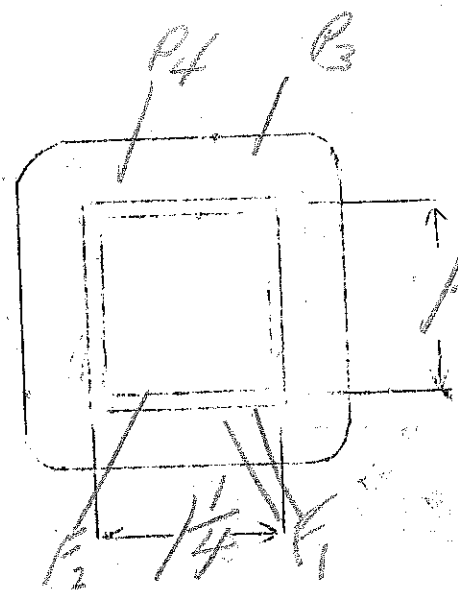
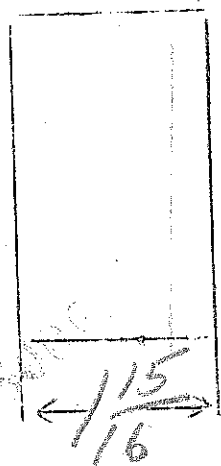
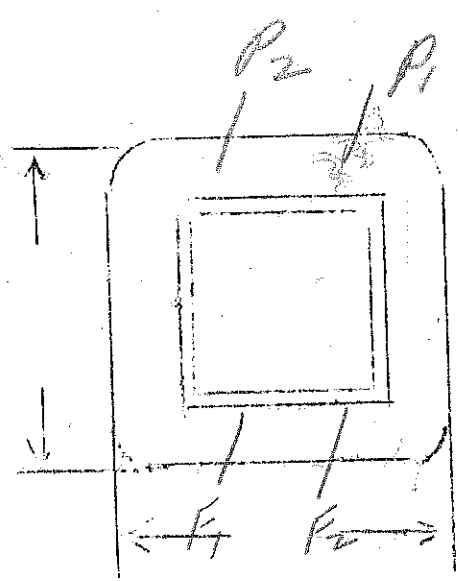
Ep-105-112-125

E_{F1} - 11V - 8amps CT

E_{F2} - 2.5V - 10amps - 7500 Volt Sec.

SPEC. NO. 2006

Winding	PR1	F ₁	F ₂			
Turns	300 460	46	11	← KEEP IN MARGINS		
Taps	420	23	-			
Wind. Lgth.	175	-	-			
Wire Size	#21	#14	12			
T.P.L.	53-10					
Kind Term.	WIPE	ONLY				
Term. Lgth.	6"	6"	6"			
Layer Insul.	50#					
Wrapper	2L0076A	3L0076C 2L0076A	3L0076C 2L0076A			
TUBE	7L007	IMPREGNATION		VARNISH		
CURE	1/4 x 1/8					



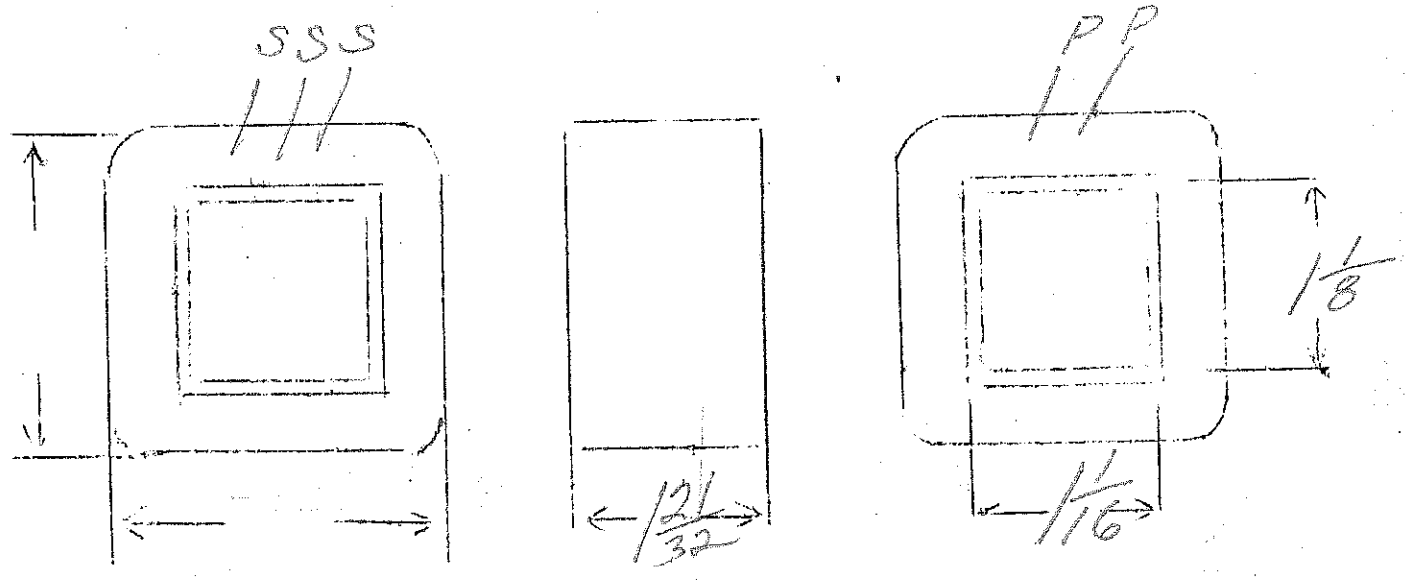
608
5/16
6/16
6/16
6/16
6/16
6/16

MAB

1-6A8 Ep - 115V
 1-6K7 Es - 700V.C.T. - 85MA
 1-6F5 EF1 - 5V, 2amps
 1-6H6 EF2 - 6.3V - 2.5amps
 2-6F6 4.8

SPEC. NO. 2007

Winding	SEC	SHIELD	PRI	green F1	Blue F2
Turns	3800	190	550	26	34
Taps	1900			-	-
Wind. Lgth.	$\frac{15}{32}$	$\frac{15}{32}$	$\frac{15}{32}$	-	-
Wire Size	#34	#34	#24	#20	#19
T.P.L.	190-20		62-9		
Kind Term.	#30 P.Braid	silver P.Braid	#20 P.Braid	WIRE ONLY	
Term. Lgth.	9"	3"	9"	9"	9"
Layer Insul.	double 20#		50#		
Wrapper	2L007VC	1L007VC	2L005GA	2L005GA	2L005GA
TUBE	7L007			IMPREGNATION	VARNISH
CURE	$1\frac{1}{16} \times 1\frac{1}{8}$				

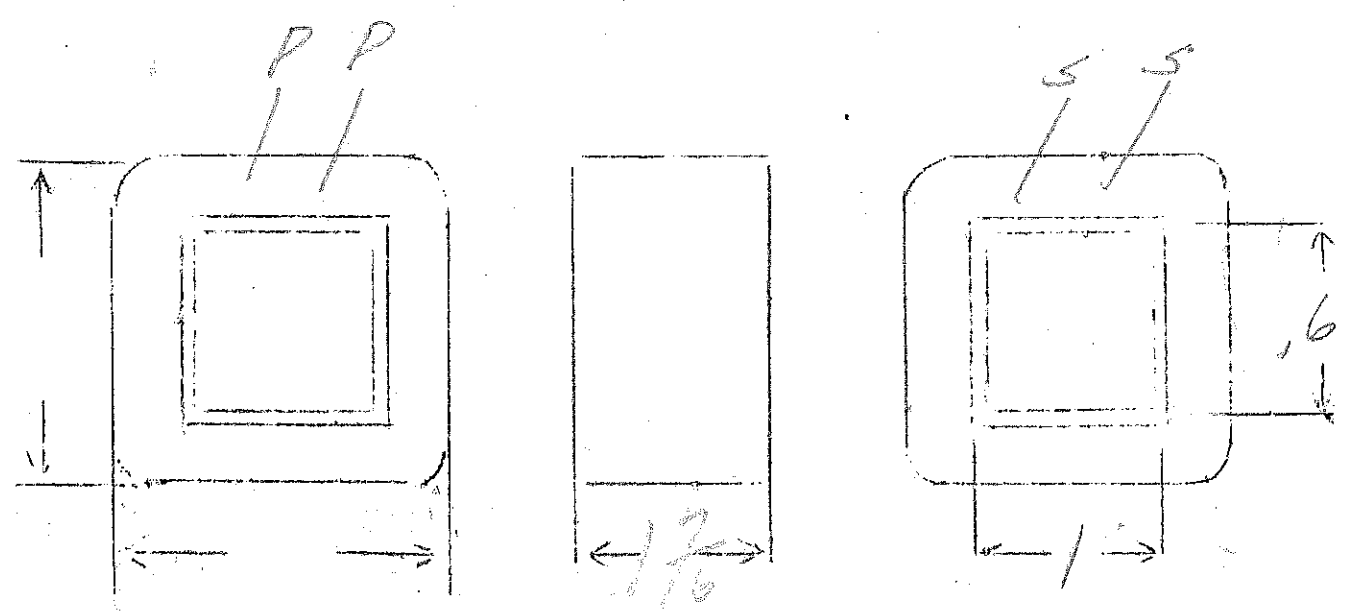


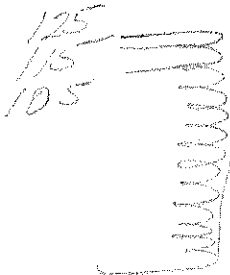
Ep - 115V
 Es - 6.3V - 4 amps

93

SPEC. NO. 2009

Winding	PR1	SEC				
Turns	1070	66				
Taps	—	—				
Wind. Lgth.	1.25	1.25				
Wire Size	#28	#17				
T.P.L.	83-13	3L				
Kind Term.	WIRE ONLY					
Term. Lgth.	3"	3"				
Layer Insul.	40#					
Wrapper	21005GA	21005GA				
TUBE	7L007		IMPREGNATION		VARNISH	
CURE	1X.6					





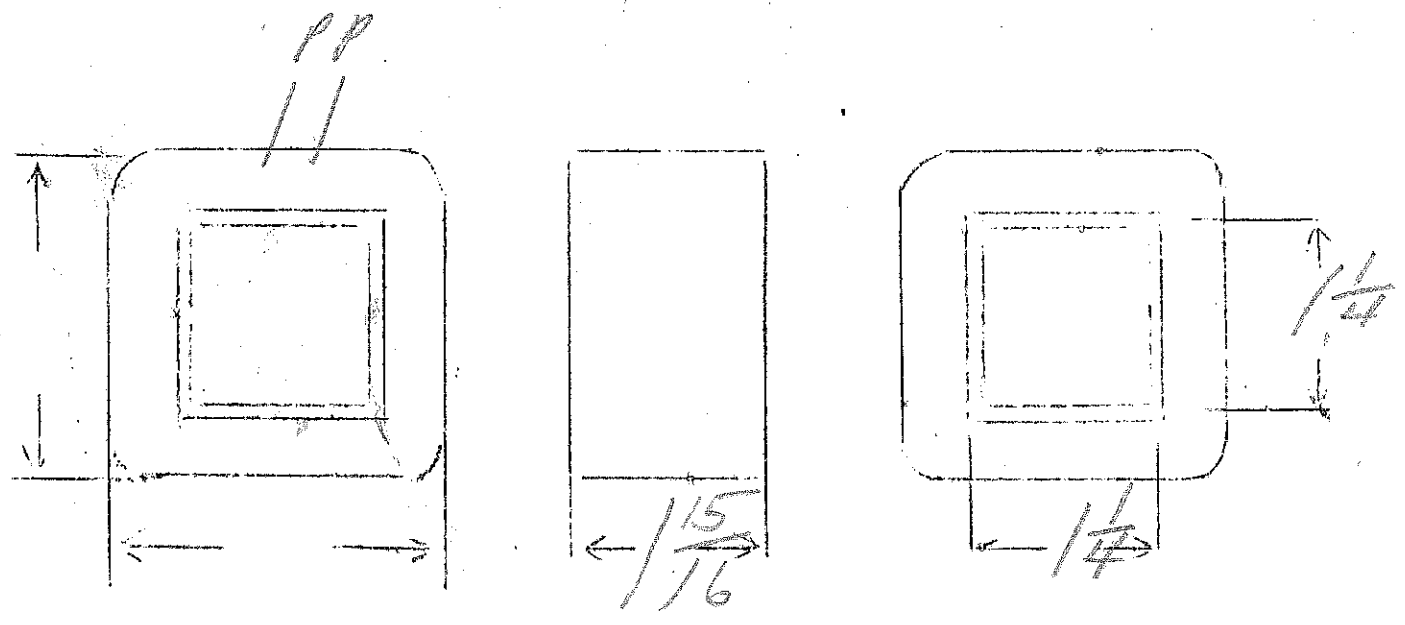
11VCT. - 5 amp
 10VCT. - 4 amp
 7 1/2 VCT. - 3 amp

Inv 3580

VA = 120

SPEC. NO. 2012

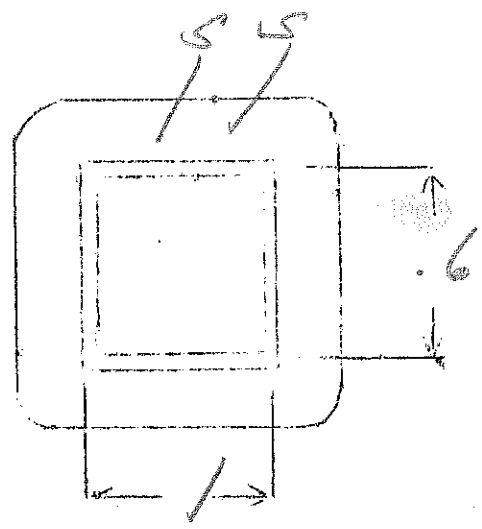
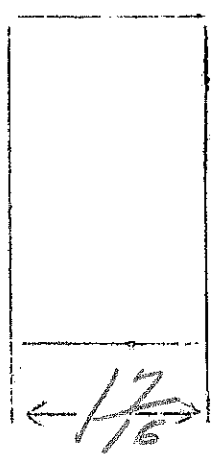
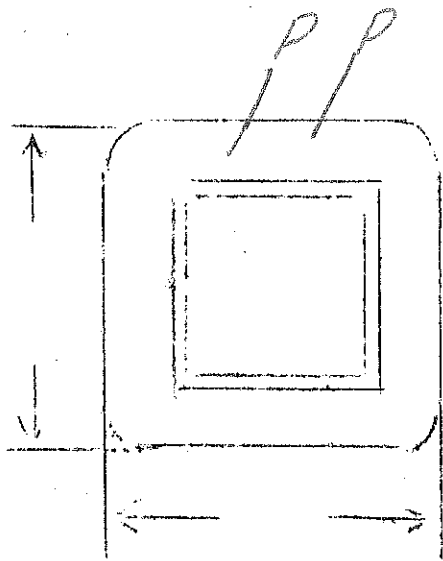
	PRI	Blue F1	White F2	Green F3			
Winding	PRI	F1	F2	F3			
Turns	425	44	40	30			
Taps	-	22	20	15			
Wind. Lgth.	1.75	1.75	1.75	1.75			
Wire Size	#21	#16	#17	#18			
T.P.L.	48-9						
Kind Term.	#20 PB mid	WIRE ONLY					
Term. Lgth.	9"	9"	9"	9"			
Layer Insul.	50#						
Wrapper	3L0076A	3L0076A	3L0076A	3L0076A			
TUBE	7L007	IMPREGNATION			VARNISH		
CURE	1 1/4 x 1 1/4						



Ep - 115V
 Es - 8V - 4amps

SPEC. NO. 2013

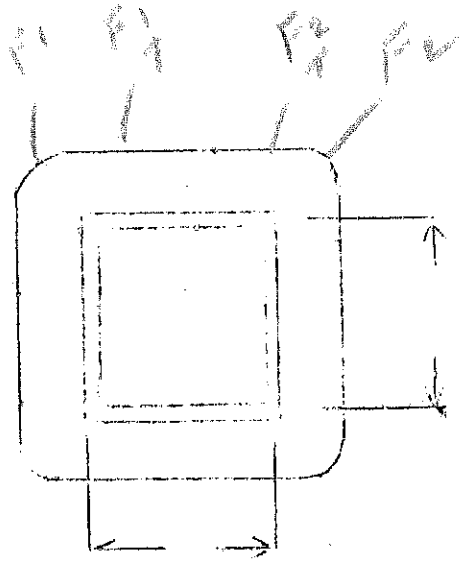
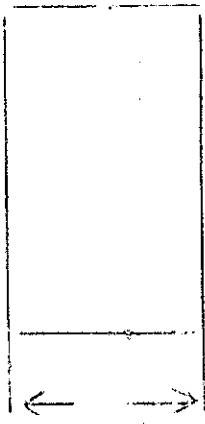
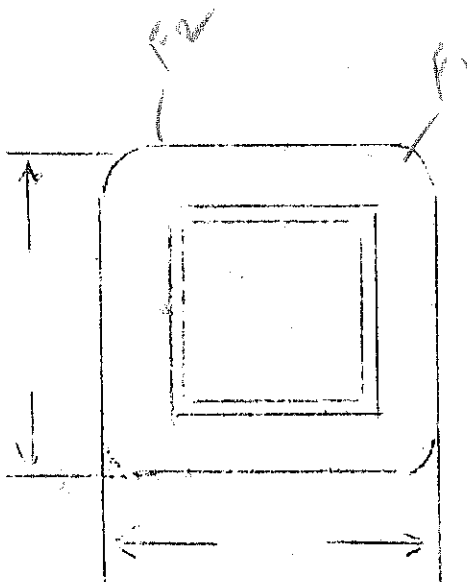
Winding	PRI	SEC				
Turns	1070	84				
Taps	—	—				
Wind. Lgth.	1.25	1.25				
Wire Size	#28	#17				
T.P.L.	83-13					
Kind Term.	WIRE ONLY					
Term. Lgth.	3	3				
Layer Insul.	40#					
Wrapper	2L005GA	2L005GA				
TUBE	7L007		IMPREGNATION		Varnish	
CURE	1 x .6					



same as 210 except for filaments

SPEC. NO. 2014

Winding				F ₁	F ₂			
Turns				15	15			
Taps				7	7			
Wind. Lgth.				double	double			
Wire Size				21	18			
T.P.L.								
Kind Term.								
Term. Lgth.								
Layer Insul.								
Wrapper				2005 GA	2005 GA			
TUBE				IMPREGNATION				
CURE								

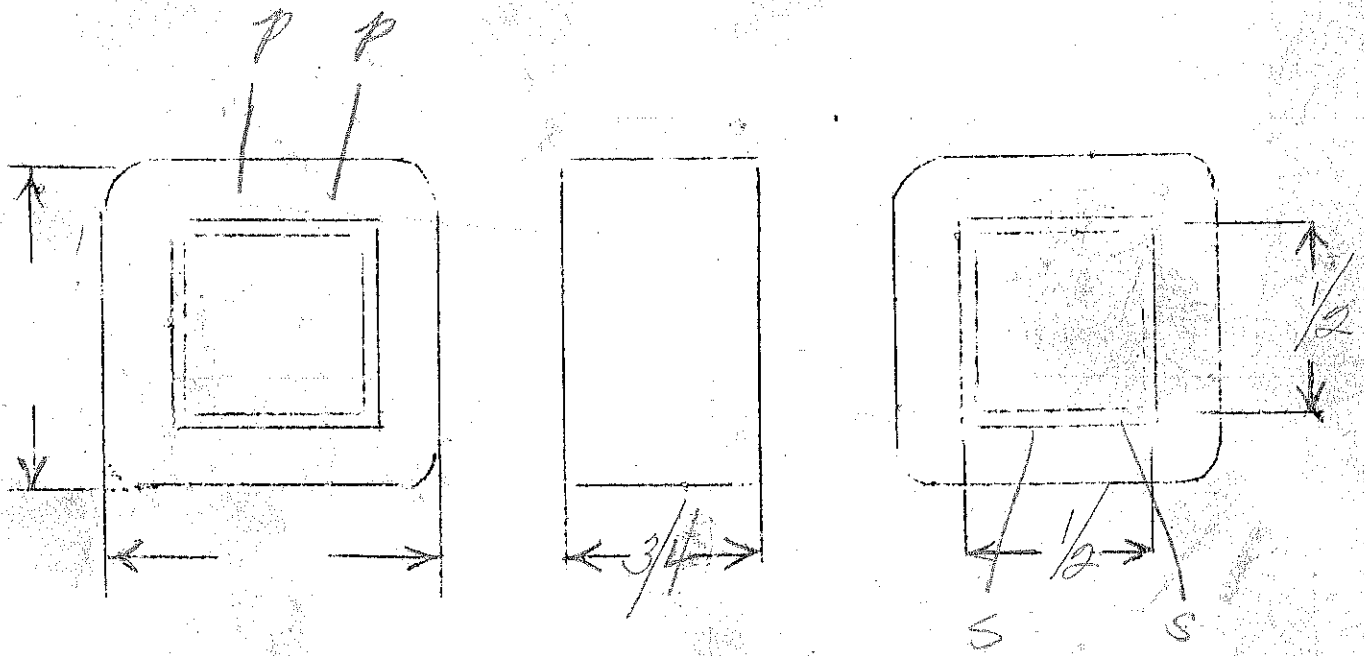


Ep-115 V
 Es - 4V - 1/8 amp

22nd

SPEC. NO. 2015

Winding	PRI	SEC				
Turns	2560	103-				
Taps	—	—				
Wind. Lgth.	5/8	5/8				
Wire Size	#38	#26				
T.P.L.	143-18	30-4				
Kind Term.	#22 Permal	WIRE ONLY	to sup			
Term. Lgth.	4"	3"				
Layer Insul.	16#					
Wrapper	1400 PVC 2100 SGA	2100 SGA				
TUBE	5L007		IMPREGNATION		VARNISH	
CURE	1/2 x 1/2 2x2		no brackets		limonston	



690
 645-

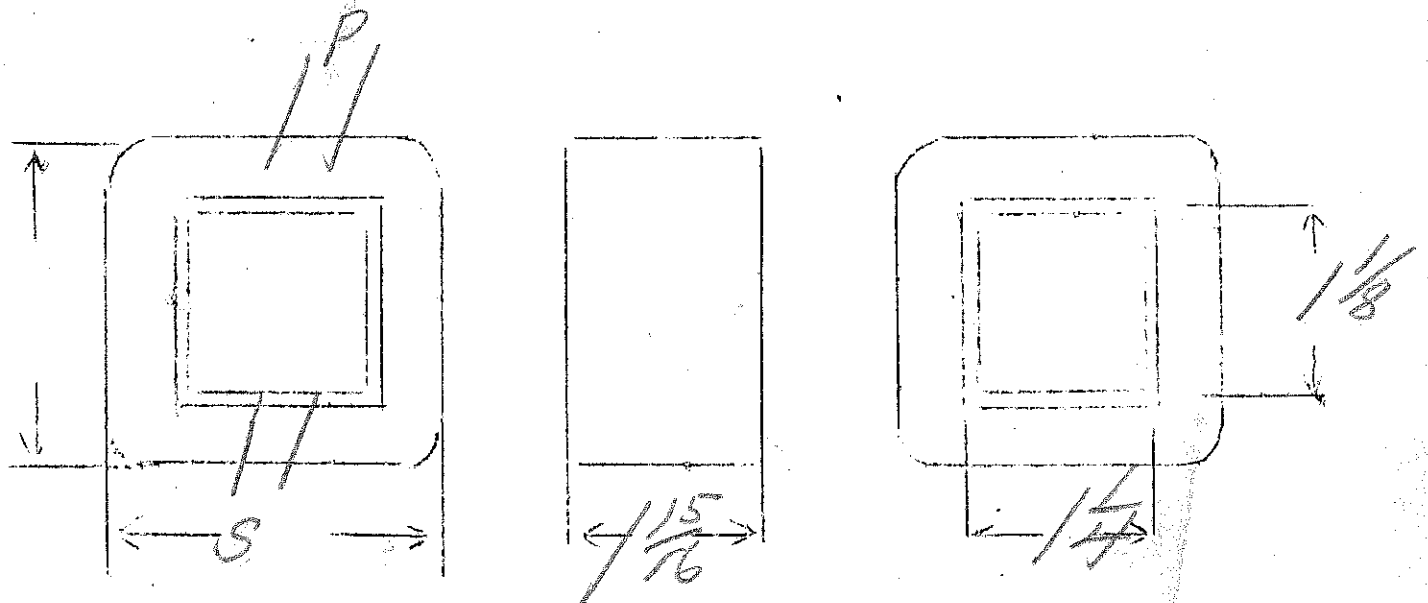
440 - 24 volts
100 watts

$$N/E = 4/1$$

SPEC. NO. 2016

Winding	PR1	SEC				
Turns	1800	108				
Taps	—	—				
Wind. Lgth.	1.75	1.75				
Wire Size	#27	#16				
T.P.L.	10/18	4L				
Kind Term.	WIRE ONLY					
Term. Lgth.	4	4 1/2				
Layer Insul.	40#	.007 KRAFT				
Wrapper	20075A	20075A				
TUBE	7007		IMPREGNATION		VARNISH	
CURE	1 1/4 x 1 1/8		2400 2K2			

5 wtg - use 4" #14 motor lead wire pri and sec



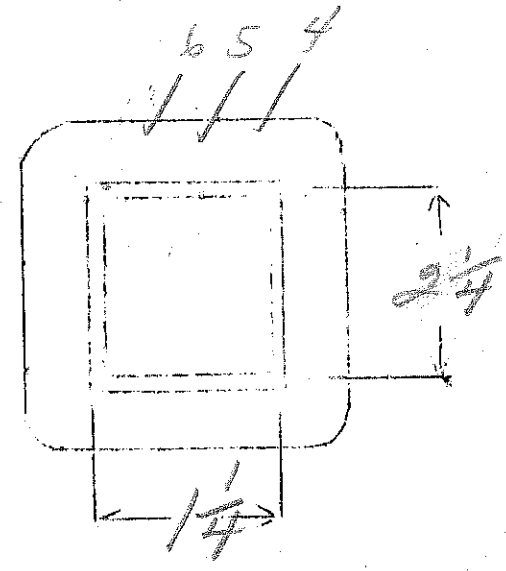
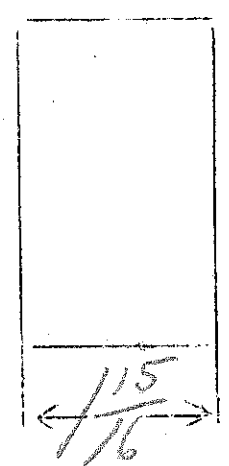
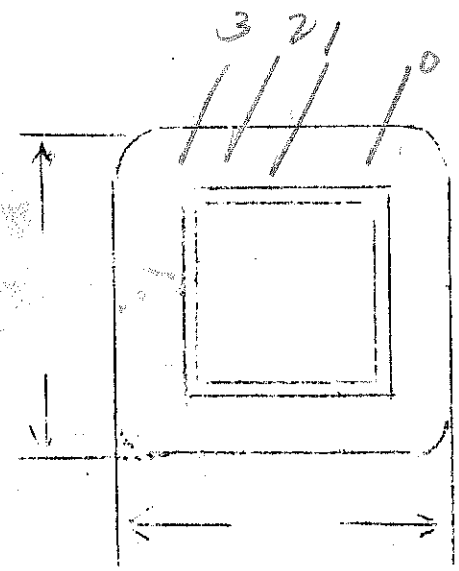
To regulate 800 volts in 6 equal steps

Continuous variation

N/E 205

SPEC. NO. 2017

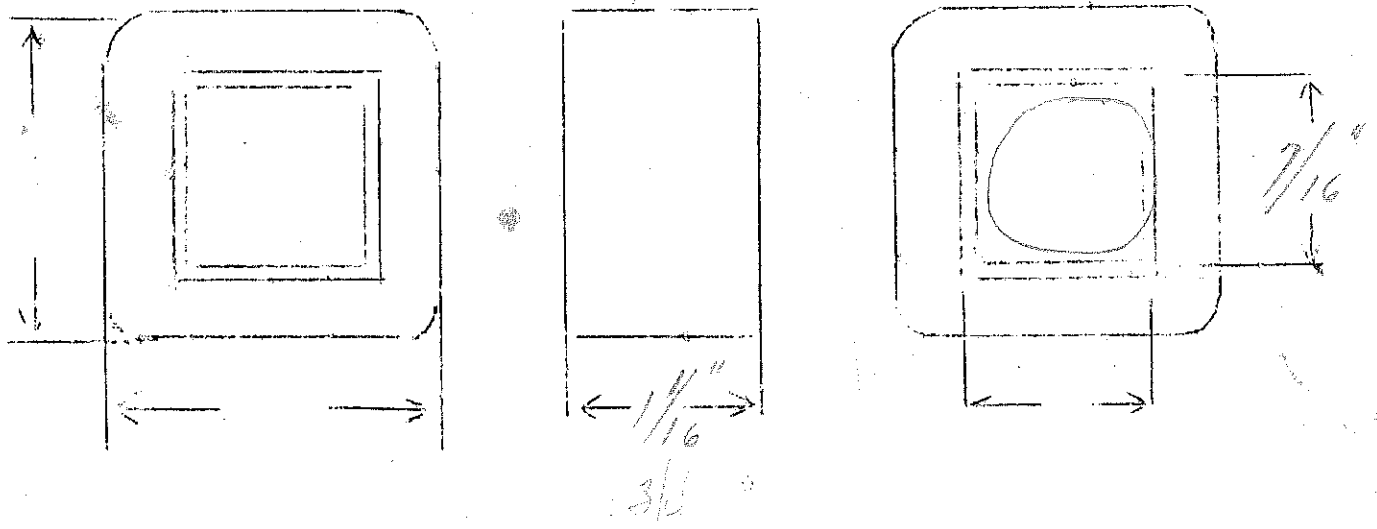
Continuous						
Winding	PRI					
Turns	142	58	36			
Taps	115	28	20			
Wind. Lgth.	1.75	1.75	1.75			
Wire Size	#17	#15	#13			
T.P.L.	—	—	—			
Kind Term.	WIRE ONLY					
Term. Lgth.	4"	4"	4"			
Layer Insul.	007 KRAFT					
Wrapper	2L0076A					
TUBE	7L007		IMPREGNATION	VARNISH		
CURE	1/4 x 2 1/4					



Alhambra Chimes -

SPEC. NO. 2018

Winding							
Turns	900						
Taps	—						
Wind. Lgth.	7/8"						
Wire Size	#26						
T.P.L.	46-20						
Kind Term.	#22 P.B.						
Term. Lgth.	6 1/2"						
Layer Insul.	30 #						
Wrapper	2L0026A						
TUBE	4L009			IMPREGNATION		Varnish	
CURE	7/16" round						



Ep-115

Es - 500V.CT. - 250 MA

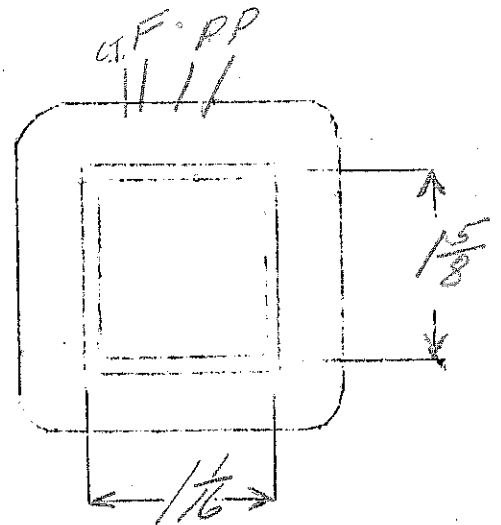
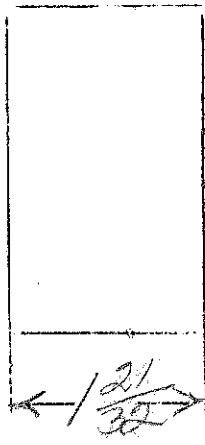
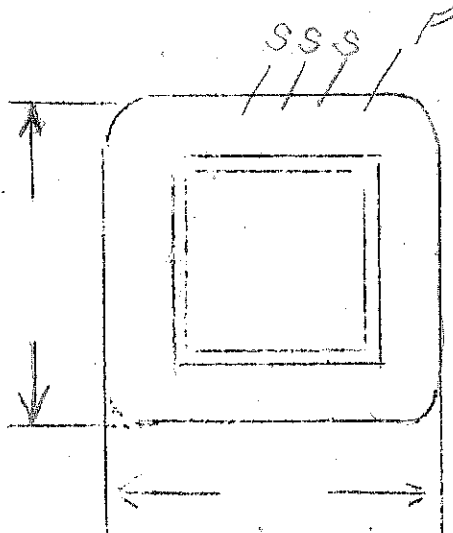
Ef 5V - 3 amp

$$\frac{N}{E} = 33$$

$$B = 12,200$$

SPEC. NO. 2019

Winding	SEC	SHIELD	PRI	F ₁			
Turns	1800	100	378	18			
Taps	900	-	-	9			
Wind. Lgth.	$\frac{1.15}{32}$	$\frac{1.15}{32}$	$\frac{1.15}{32}$	-			
Wire Size	#28	#28	#24	#18			
T.P.L.	100-18.	-	63-6				
Kind Term.	SIL BRID		WIRE ONLY				
Term. Lgth.	3"	3"	3"	3"			
Layer Insul.	40#		40#				
Wrapper	1L007VC	1L007VC	2L005GA	2L005GA			
TUBE	7L007	IMPREGNATION		VARNISH			
CURE	$\frac{1}{16} \times \frac{15}{8}$						



22
1.5
2.5
3.5

Dept Wires 20' coils

Two primaries - 120V tap at 110

Sec - 12 Volt - 16.5amp

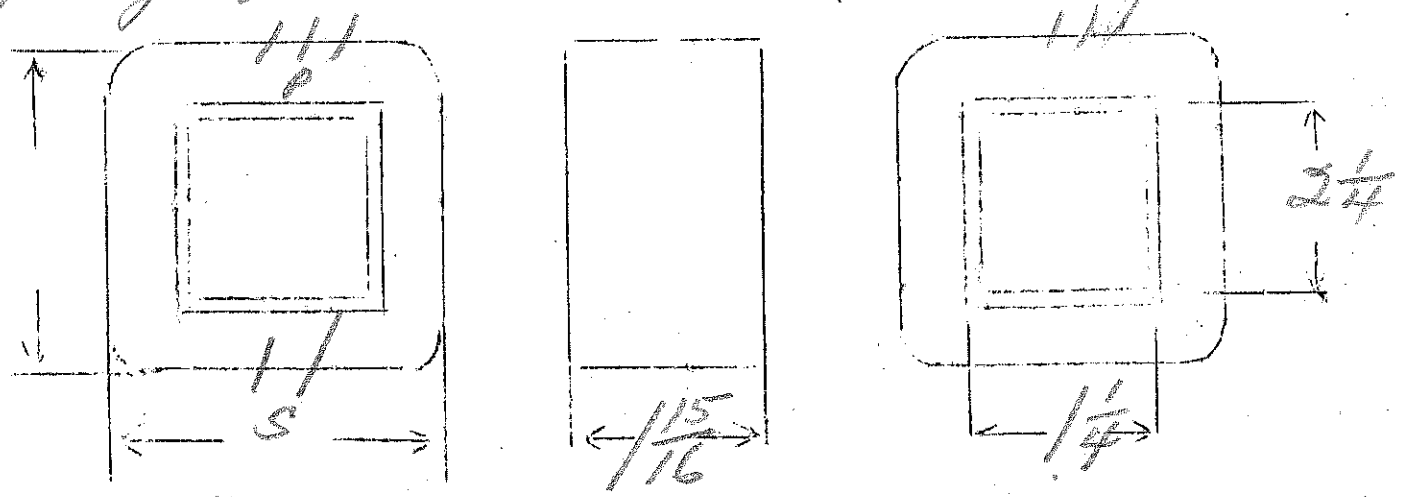
200 watt

2.16

SPEC. NO. 2020

Winding	P	P	Black Saturated	Slivering		
Turns	258	258	28			
Taps	237	237	-			
Wind. Lgth.	1.75	1.75				
Wire Size	#22	#22	double #13			
T.P.L.	60-5	60-5	3L			
Kind Term.	#20 Braid		WIRE ONLY			
Term. Lgth.	9"	9"	9"			
Layer Insul.	50#	50#	0075-A			
Wrapper	1L007K	2L0076A	2L0076A			
TUBE	7L007			IMPREGNATION	VARNISH	
CURE	1/4" x 2/4"					

start - black
110 tap - white
120 tap - yellow

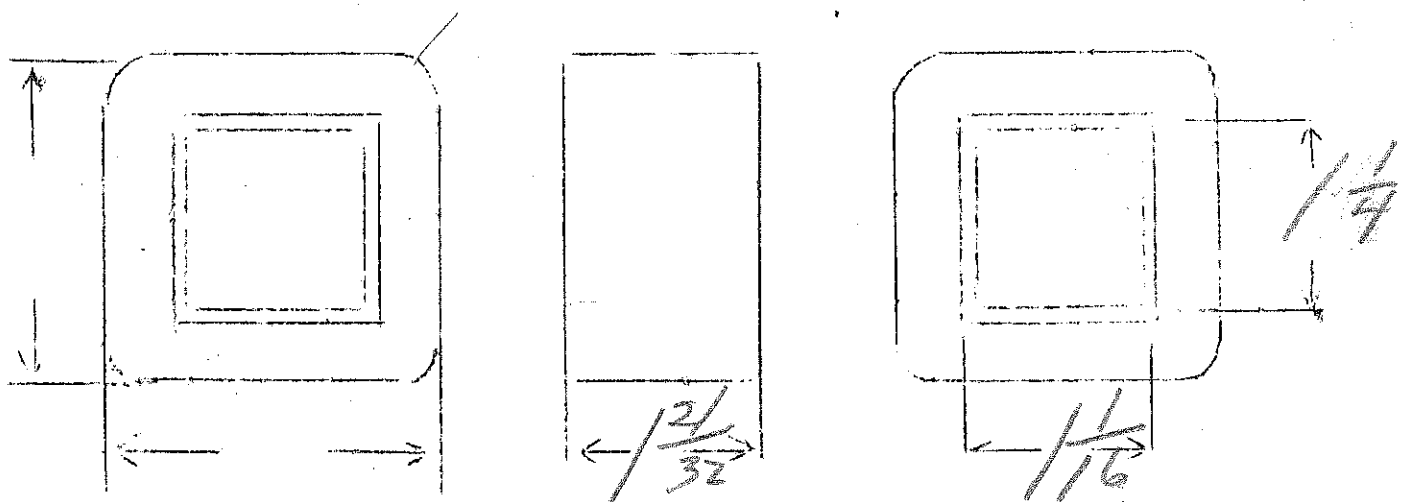


2 vertical brackets only - use tap as markers

Ep-115
 Es1 - 375VCT-150Ma
 Es2 - 50V-25Ma
 Es3 - 50V-25Ma
 N/F = 4.35

EF1 - 5VCT-3a
 EF2 - 2.5VCT-6a
 EF3 - 2.5VCT-4amps
 EF4 - 2.5VCT-2amps
 SPEC. NO. 2022

	Black	Shield	Red-Blue	Green	White	Green	Black	White	Red
Winding	PRI.	SHIELD	S ₁	S ₂	S ₃	F ₁	F ₂	F ₃	F ₄
Turns	500	65	1800	240	240	24	12	12	12
Taps	-	-	900	-	-	12	6	6	6
Wind. Lgth.	1 15/32								
Wire Size	#25	#25	#30	#37	#37	18	15	16	20
T.P.L.	65-8	65	120-16	1L	1L				
Kind Term.	#20 Braid					WIRE ONLY			
Term. Lgth.	9	3	9	9	9	9	9		
Layer Insul.	40#		40#	30#	30#				
Wrapper	1L007VC	1L007VC	1L007VC	1L007VC	2L005GA				
TUBE	7L007			IMPREGNATION		Varnish			
CURE	1 1/16 x 1 1/4								



leads out both sides - position not critical

Ep - 105-115-125 views

VA = 50

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

EF₁ - 2.5V - 10amps CT
 EF₂ - 2.5V - 5amps CT
 EF₃ - 2.5V - 5amps CT

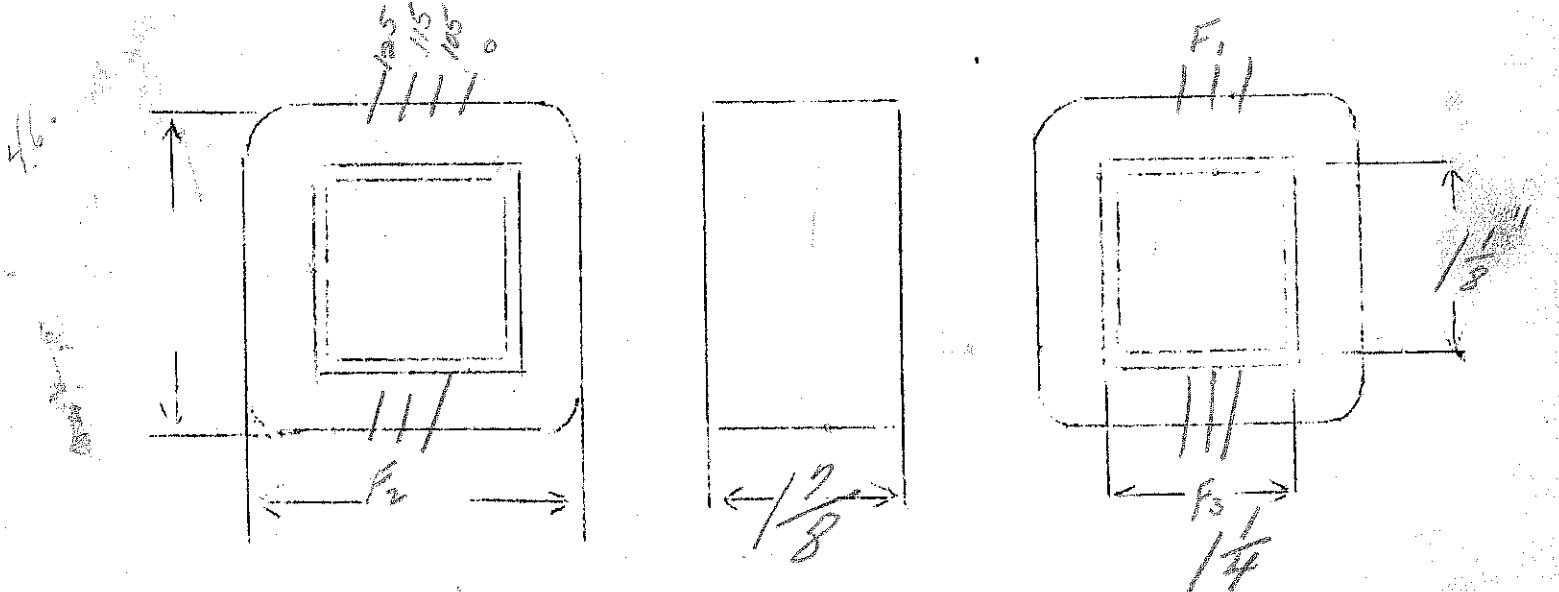
10,000 Volt Ins

SPEC. NO. 2022

Winding	PR1	F ₁	F ₂	F ₃			
Turns	556	12	12	12			
Taps	512	6	6	6			
Wind. Lgth.	468						
Wire Size	$\frac{5}{13}$ #25	double #15	#15	#15			
T.P.L.	98-8						
Kind Term.	WIRE ONLY	#14 rubber covered (angle window)					
Term. Lgth.	3"	6"	6"	6"			
Layer Insul.	40#		001 Kraft				
Wrapper	32007VC 21007GA	32007VC 21007GA	32007VC 21007GA	32007VC 21007GA			

TUBE 72007 IMPREGNATION VARNISH - air

CURE $1\frac{1}{4} \times 1\frac{1}{8}$ drying only - do not bake



2.7
1.35

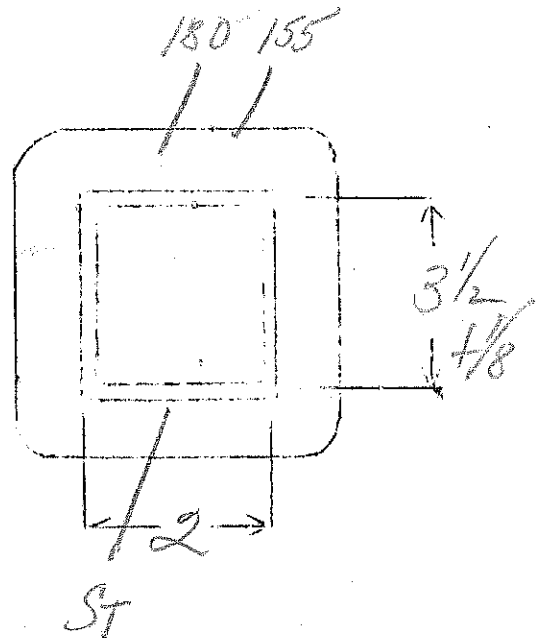
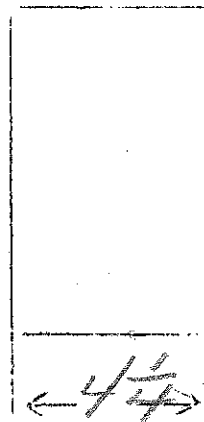
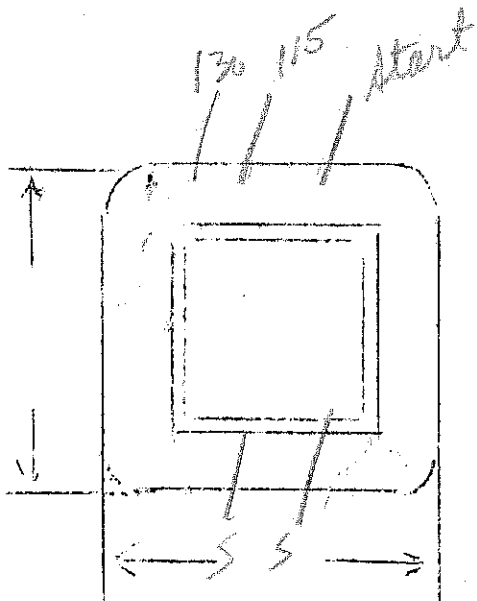
Ep - 115 - 130 - 155 - 180

Es - 5000 V.C.T. - 400

7500V Breakdown

SPEC. NO. 2023

Winding	SEC		PRI			
Turns	4850		104	14	45	
Taps	2425		—	—	23	
Wind. Lgth.	3 1/2	—	—	—	—	
Wire Size	#25		#11	#13	#16	
T.P.L.	163-30		32			
Kind Term.	START OF SEC #18 R.C.	WIRE ONLY				
Term. Lgth.	6"	6"	6"			
Layer Insul.	double 40#		.007			
Wrapper	31007VC 31005GA				31005GA	
TUBE	102007 + 21007VC		IMPREGNATION		VARNISH	
CURE	2 x 3 1/2					



OVER

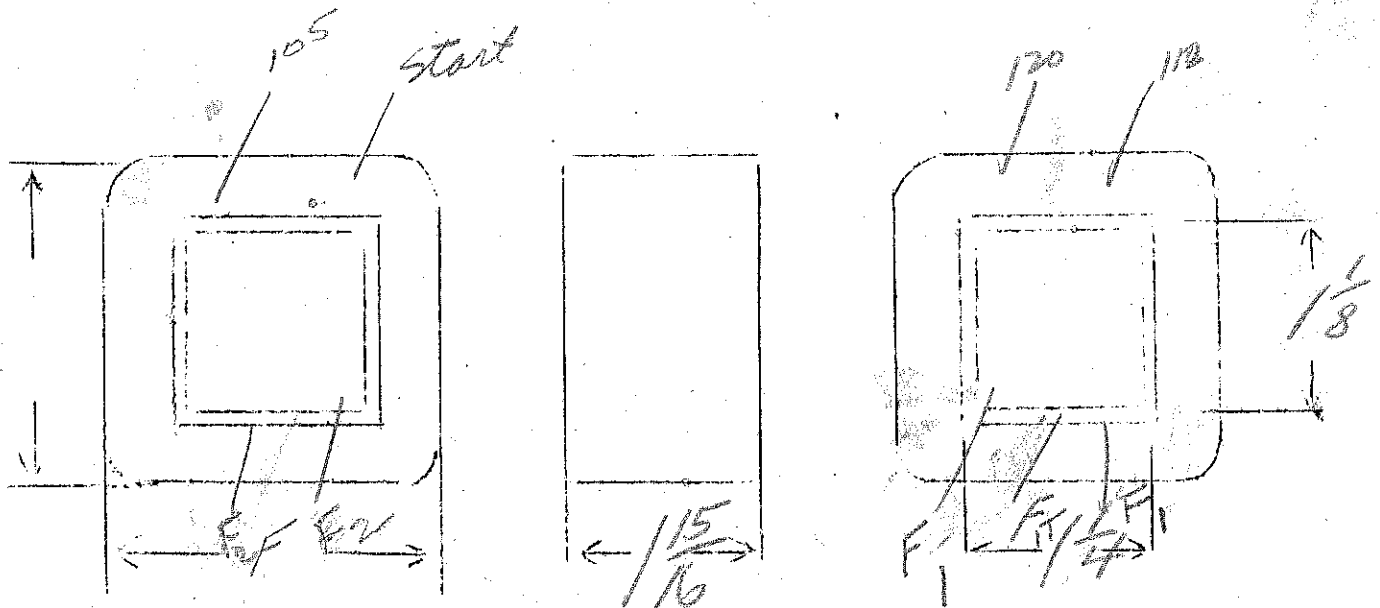
Ep - 105-112-120

EF₁ - 10.5 V.C.T. - 8 amps

EF₂ - 2.5V - 10 amps - 7500V and

SPEC. NO. 2024

Winding	PRI	F ₁	F ₂				
Turns	480	46	11				
Taps	450	23	5				
Wind. Lgth.	1.75			ground CT to case			
Wire Size	#21	#14	#12				
T.P.L.	53						
Kind Term.	WIRE ONLY	WIRE ONLY					
Term. Lgth.	3"	3"	3"	← assembly Finish 9" #14 Rubber Conduit			
Layer Insul.	50#						
Wrapper	21007GA	31007VC 21007GA	31007VC 21007GA				
TUBE	71007			IMPREGNATION		VARNISH	
CURE	1/4 x 1/8						

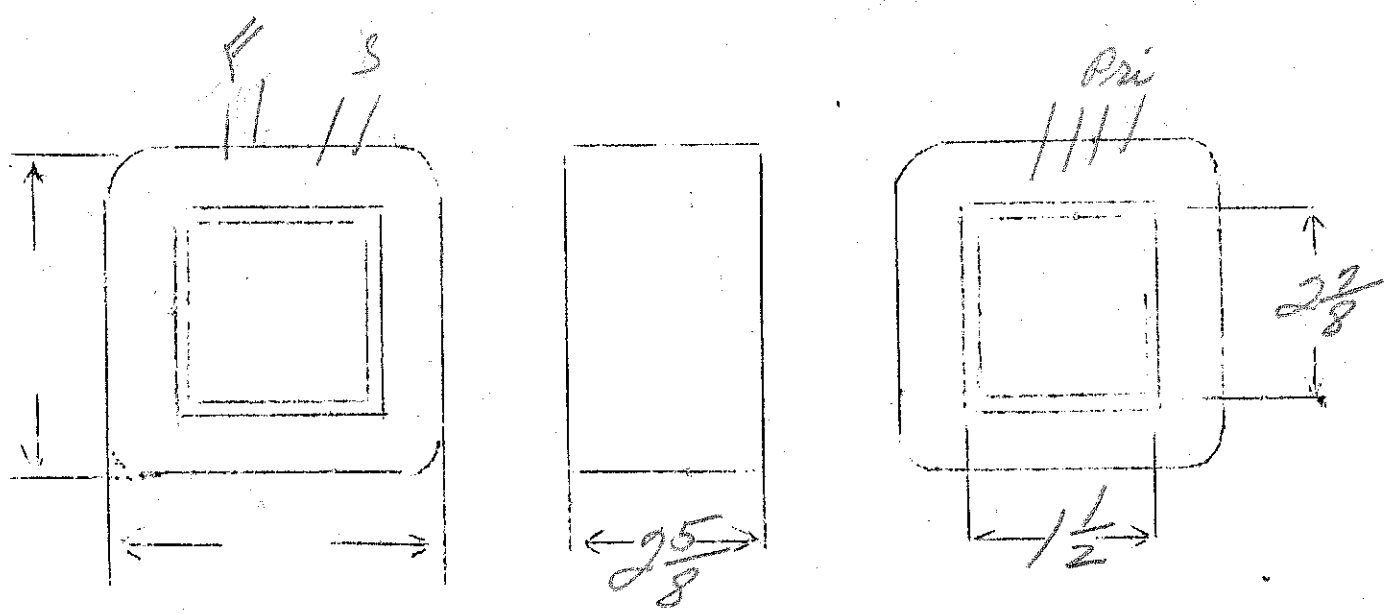


(over)

Ep - 105, 115, 125
 Es - 1250 V - 300 Ma
 Ef - 10 V - 7 amp C.T. grounded

SPEC. NO. 2025

Winding	SEC	PRI	^{white} FIL				
Turns	1750	164	15				
Taps	—	140-150	7	→ silver Braid on C.T. (HH)			
Wind. Lgth.	$2\frac{3}{8}$	$2\frac{3}{8}$					
Wire Size	#26	#14	# double 16				
T.P.L.	126-14	5L	—				
Kind Term.	WIRE	ONLY					
Term. Lgth.	3"	3"	12" sleeving				
Layer Insul.	double 40#	007 KRAFT					
Wrapper	2L007VC 2L005GA	2L005GA	2L005GA				
TUBE	9L007+1L007VC			IMPREGNATION	VARNISH		
CURE	$1\frac{1}{2} \times 2\frac{7}{8}$						



two primaries - each 120V tap at 110V.

Sec - 480, 479, 478, 477, 476, 475, 474, 473, 470, 469 1/2

465 - 100 watts

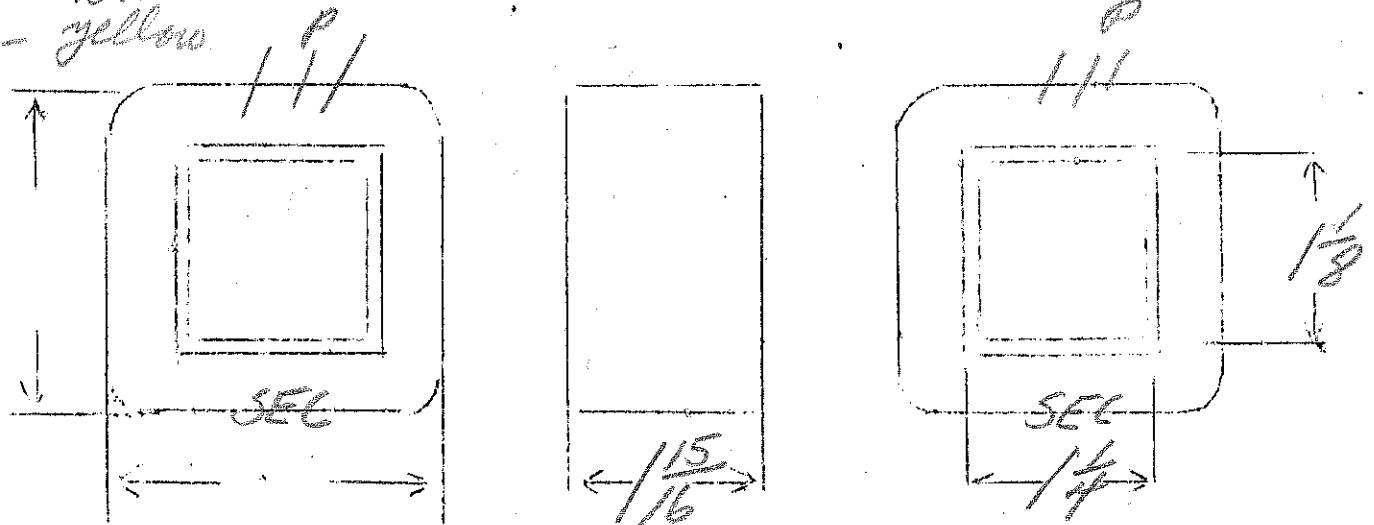
SPEC. NO.

2026

44

Winding	P	P	SEC				
Turns	528	528	2330				
Taps	485	485	2325				
Wind. Lgth.	1.75	1.75	2320	2315	2311	2306	2301
Wire Size	#25	#25	#29				
T.P.L.	82-7	82-7	132				
Kind Term.	#20 Pa	Braid					
Term. Lgth.	9"	9"	9"				
Layer Insul.	40#	40#	40#				
Wrapper	12007VC	12007VC	2L007BA				
TUBE	7L007		IMPREGNATION		VARNISH		
CURE	1/4 x 1/8						

start - black
110 - white
120 - yellow



2 vertical brackets only - use top as marker

Two pri winding - 120 volt tap at 110

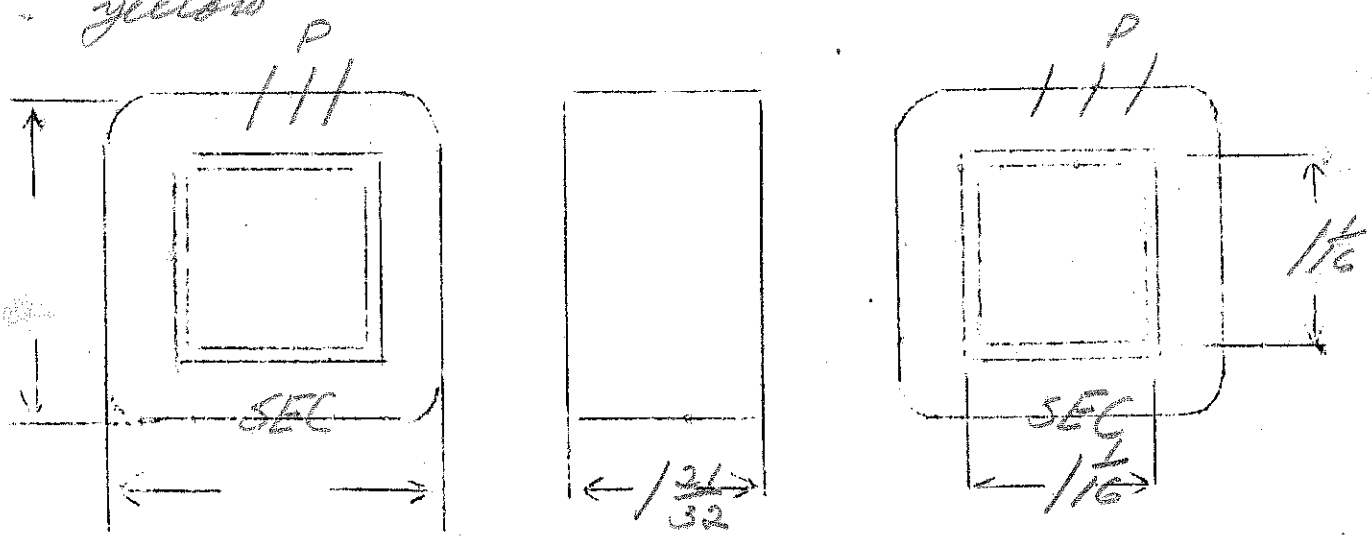
Secondary Red start - Blue balance
 380, 375, 370, 365, 360, 355, 350, 50 watt
 345, 340, 335, 330, 325, 320, 310, 300

SPEC. NO. 2027

5.25

Winding	PRI	PRI	SEC				
Turns	632	632	2210				
Taps	580	580	2180 2150				
Wind. Lgth.	$1\frac{5}{32}$	$1\frac{5}{32}$	2120	2090	2060	2030	2000 1970-1940
Wire Size	#28	#28	#30	1910	1880	1850	1790-1730
T.P.L.	98-7	98-7	123				
Kind Term.	#20 p. Braid						
Term. Lgth.	9"	9"	9"	insulate splices and lead joints very carefully			
Layer Insul.	30#	30#	30#				
Wrapper	12007VC	12007VC					
TUBE	72007		IMPREGNATION		VARNISH		
CURE	$1\frac{1}{16} \times 1\frac{1}{16}$						

start black
 110 - white
 120 - yellow



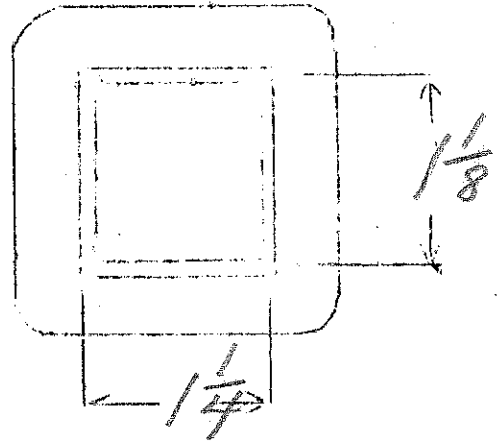
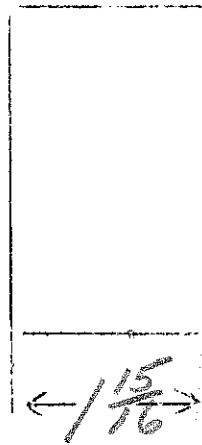
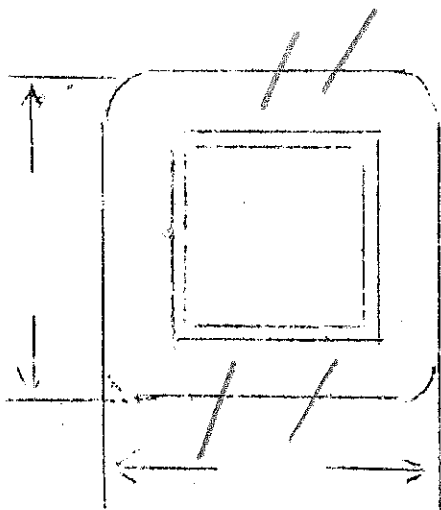
2 vertical brackets only - use tags as markers

Ep-115V 50-60 cycle
 Es-8V-12 amps (100 watt)

4.1

SPEC. NO. 2028

Winding	PRI	SEC				
Turns	472	36				
Taps	—	—				
Wind. Lgth.	1.75	1.75				
Wire Size	22	#12				
T.P.L.	60-8					
Kind Term.	WIRE ONLY		5" assembly			
Term. Lgth.	3"	3"				
Layer Insul.	50#					
Wrapper	210075A	210076A				
TUBE	71007		IMPREGNATION		VARNISH	
CURE	1/4 x 1/8					



model M

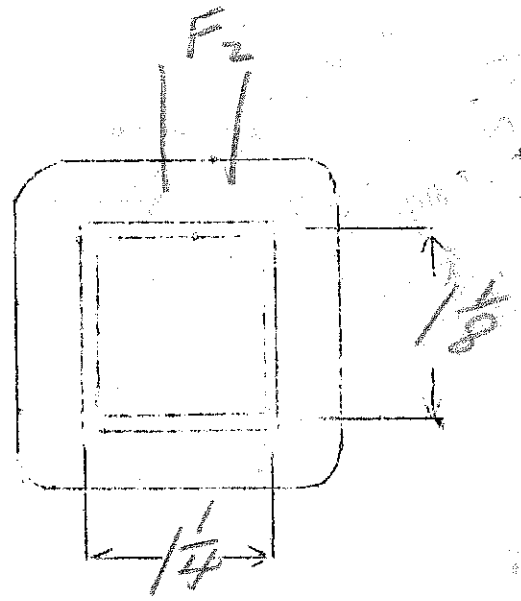
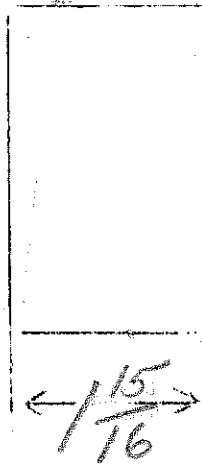
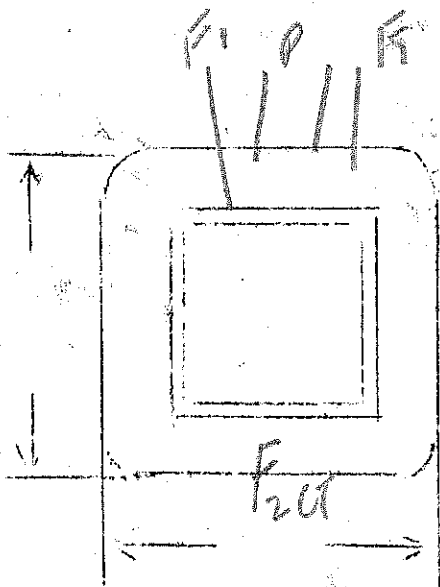
Pri - 115 Volt

E_{F_1} - 10.5 V - 8 amps

E_{F_2} - 2.5 V - 10 amps C.T. - 5000 Volt ins.

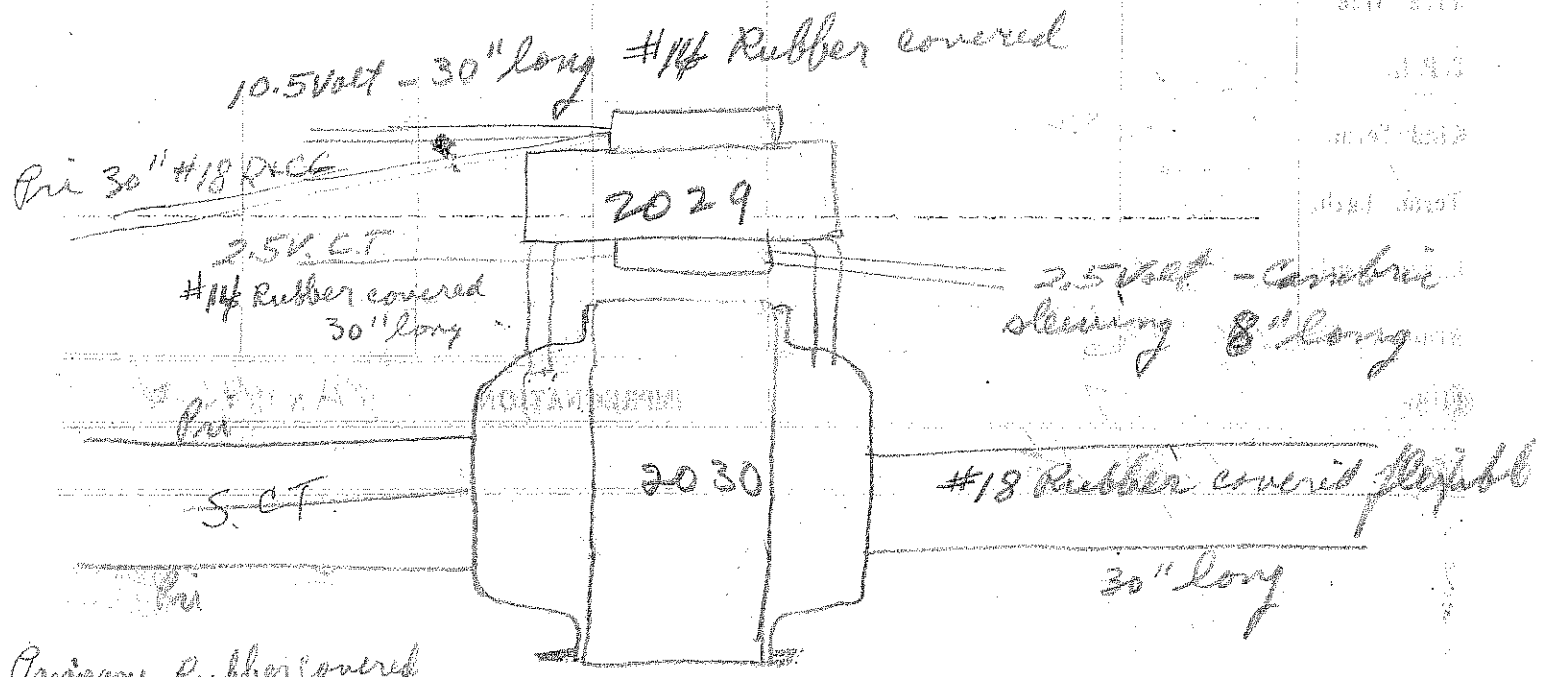
SPEC. NO. 2029

Winding	PRI	F_1	F_2				
Turns	460	46	11				
Taps	-	-	5				
Wind. Lgth.	1.75	-	-				
Wire Size	#21	#14	#12				
T.P.L.	52-9						
Kind Term.	#18 Rubber covered	#16 Rubber covered	WIRE ONLY CAMBRIC SLEEVING				
Term. Lgth.	30"	30"	8"				
Layer Insul.	50#						
Wrapper	2L0076A	3L007VC 2L0076A	3L007VC 2L0076A				
TUBE	7L007	IMPREGNATION		VARNISH			
CURE	$1\frac{1}{4} \times 1\frac{1}{8}$						

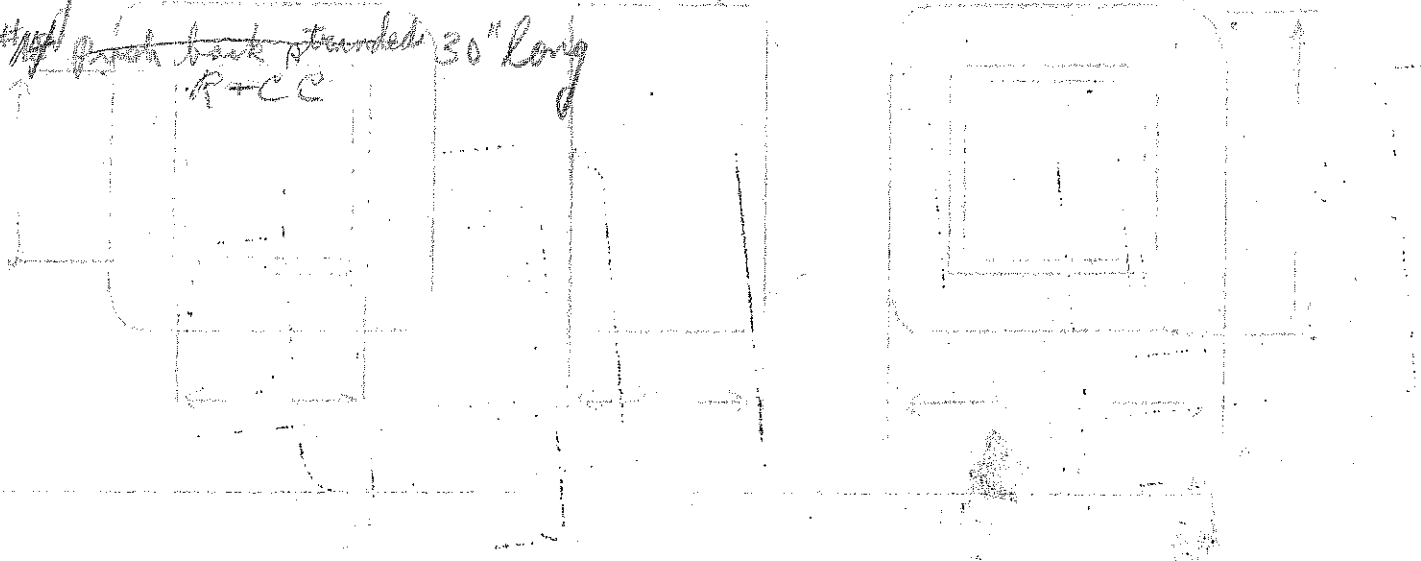


over

mounting for 2029 + 2030



Primary Rubber covered
#14 back back stranded 30" long
R+CC



model M

Prin. 115V

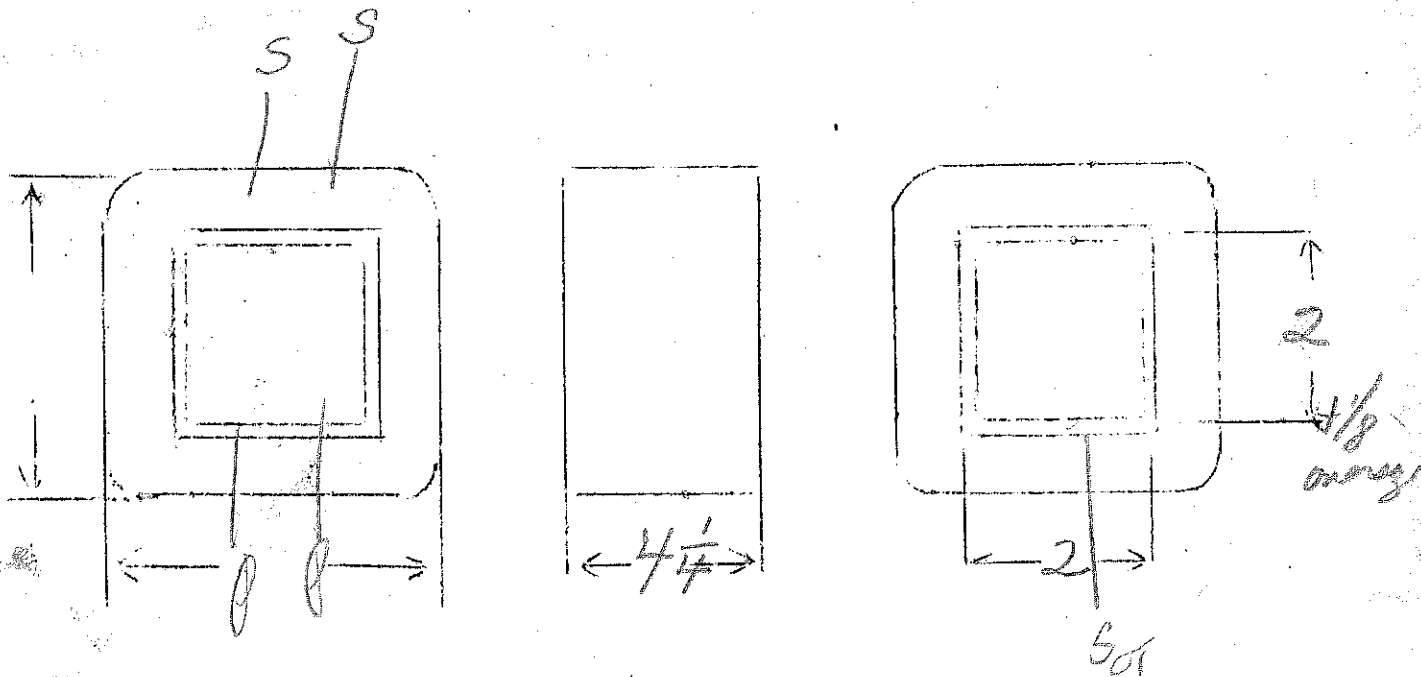
Sec - 3600 V.C.T. - 300Ma

VA = 540

N/E = 1.45

SPEC. NO. 2030

Winding	SEC	PRI.				
Turns	5700	167				
Taps	2850	—				
Wind. Lgth.	3 1/2	—				
Wire Size	#26	#13				
T.P.L.	190-30	4L				
Kind Term.	#18 rubber covered	#18 Rubber Covered		"G" MTG		
Term. Lgth.	30"	30"				
Layer Insul.	double 40#	207 KRAFT				
Wrapper	2L007VC 2L005GA	2L005GA				
TUBE	10L007#2L007VC		IMPREGNATION	VARNISH		
CURE	2x2					



see back of 2029 for mounting

model MM

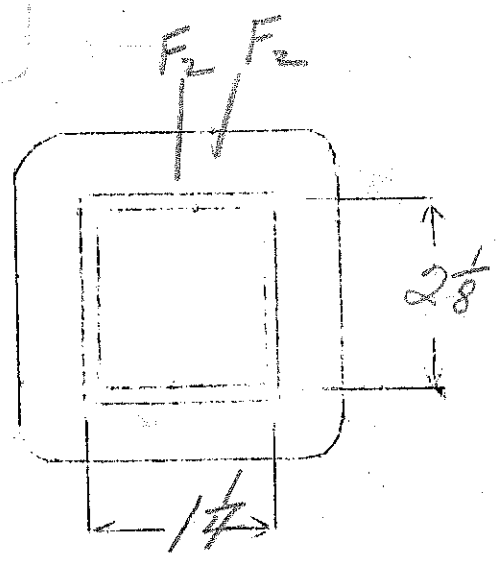
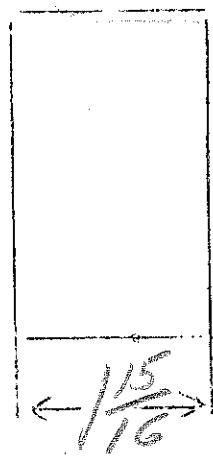
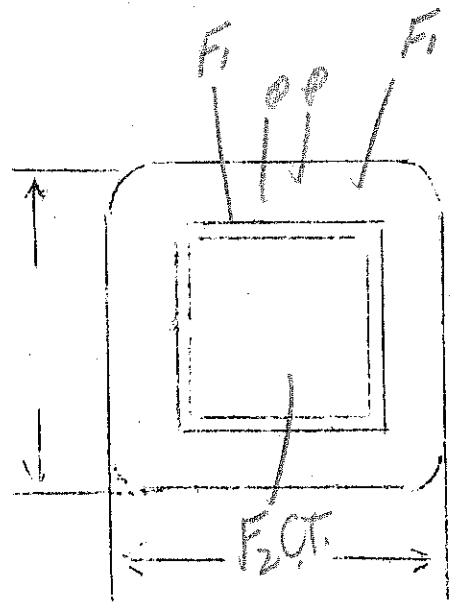
Pri 115 volt

F₁ - 10.5V - 16amp

F₂ - 2.5V.C.T. - 15 amp

2.2 SPEC. NO. 2031

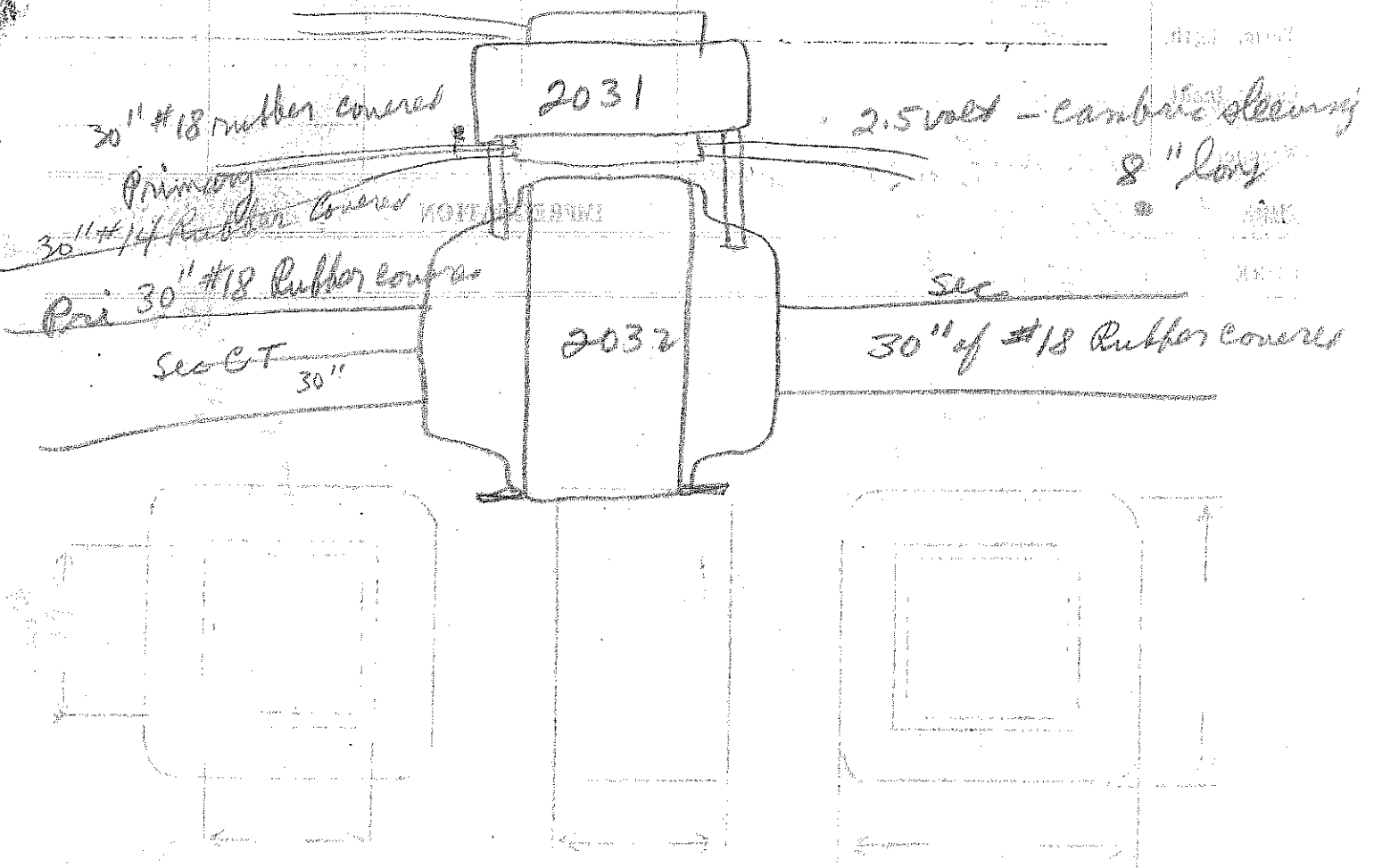
Winding	PRI	F ₁	F ₂			
Turns	252	25	6			
Taps	—	—	3			
Wind. Lgth.	1.75	—	—			
Wire Size	#19	double #14	# double #14			
T.P.L.	43-6	2L	1L			
Kind Term.	#18 Rubber covered	#14 Rubber	WIRE ONLY	Cambria slurring		
Term. Lgth.	30"	30"	8"			
Layer Insul.	50#	—	—			
Wrapper	2L007GA	3L007VC 2L007SA	3L007VC 2L007GA			
TUBE	17L007			IMPREGNATION	VARNISH	
CURE	1/4 x 2 1/8					



over

mounting for 2031 + 2032

10.5V. - 30" long #14 Rubber covered



model MM

Pri - 115V

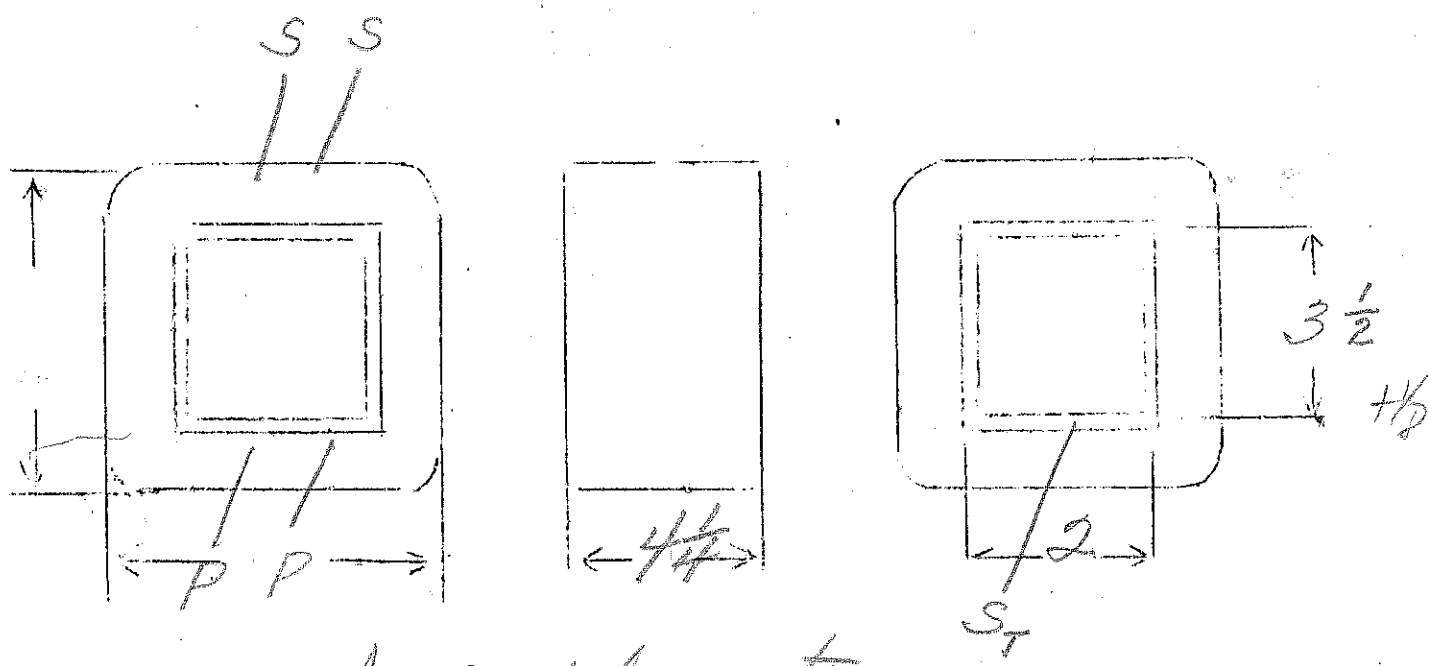
Sec - 3600V.C.T. - 600 MA

$$\frac{N}{E} = .9$$

VA = 1100 watts

SPEC. NO. 2032

Winding	SEC	PRI				
Turns	3500	104				
Taps	1750	-				
Wind. Lgth.	3 1/2	-				
Wire Size	#23	#11				
T.P.L.	135-26	36				
Kind Term.	#18 Rubber Covered	#14 Rubber Covered				
Term. Lgth.	30"	30"				
Layer Insul.	double 40#	.007 KRAFT				
Wrapper	2L007VC 2L005GA	2L005GA				
TUBE	10L007+2L007VC		IMPREGNATION	VARNISH		
CURE	2 x 3 1/2					

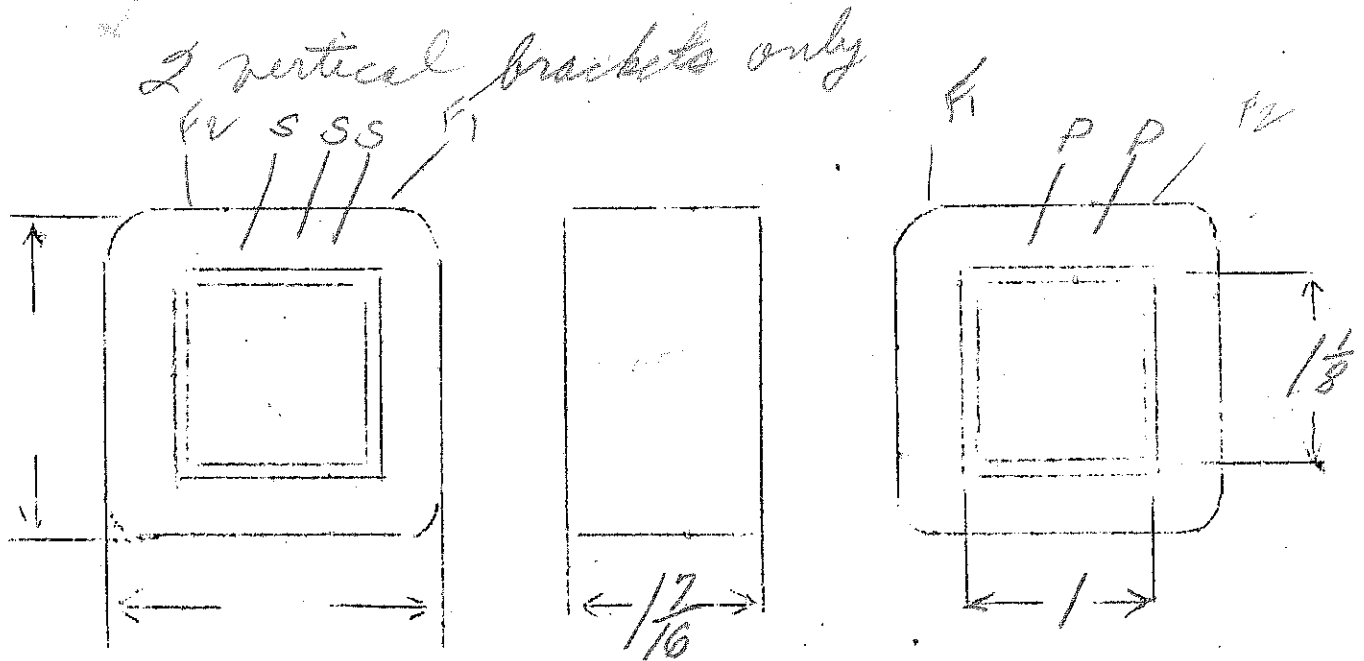


See 2031 for mtg.

same as 1839 except Ep - 230 volts

SPEC. NO. 2033

Winding	SEC	SHIELD	PR1	open F1	Blue F2		
Turns	3280	100	1170	28	35		
Taps	1640	—	—	—	—		
Wind. Lgth.	1.25	1.25	1.25	—	—		
Wire Size	#36	#29	#29	#20	#21		
T.P.L.	205-16	100	100-12				
Kind Term.	#22 PBraid	silbr	#22 PBraid	WIRE ONLY			
Term. Lgth.	8"	3"	8"	8"	8"		
Layer Insul.	double 16#		30#				
Wrapper	1L007VK 2L007V	1L007VC	2L003GA	2L005GA	3L005GA		
TUBE	5L007HLEA			IMPREGNATION	VARNISH		
CURE	1x1/8						

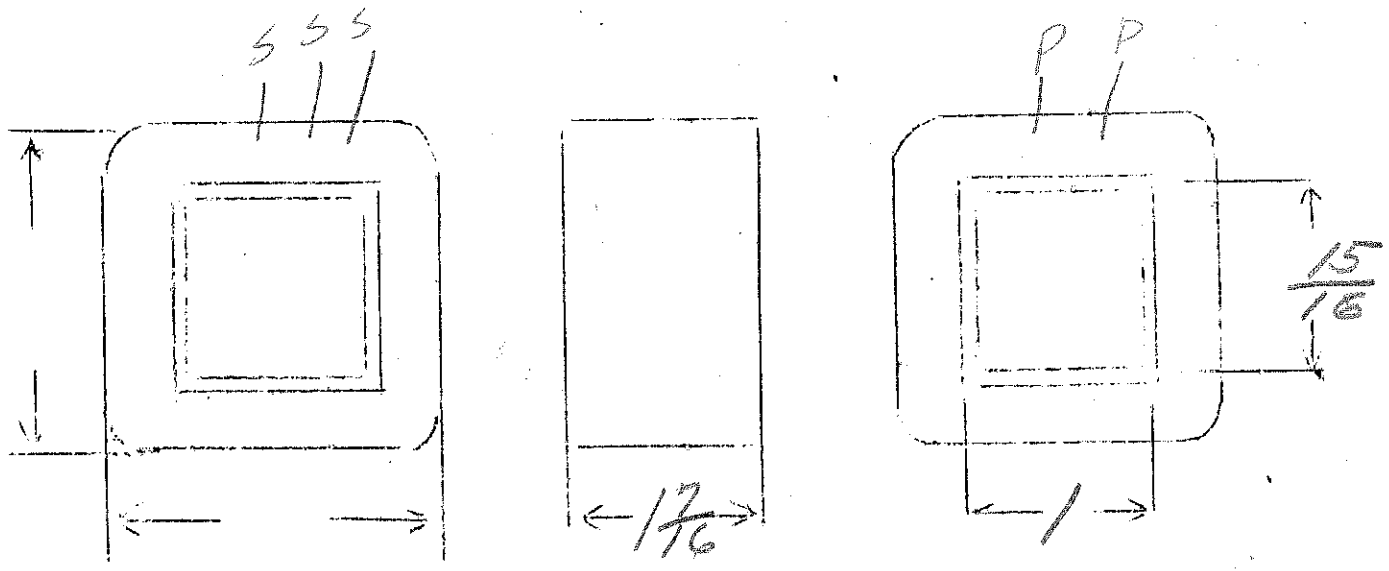


13/24/5
1/6

Same as 6210 except Pri- 230volts

SPEC. NO. 2034

Winding	SEC	SHIELD	PRI	F1	F2		
Turns	3700	103	1320	31	39		
Taps	1850		—	—	—		
Wind. Lgth.	1.25	1.25	1.25	—	—		
Wire Size	#36	#30	#30	#21	#21		
T.P.L.	206-18	103	103-13				
Kind Term.	#20 PBraid	#12 silbr	#20 PBraid	WIRE	ONLY		
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	double 16#		30#				
Wrapper	2L007VC	2L005VP	2L005GA	2L005GA	2L005GA		
TUBE	4L007+1LGA			IMPREGNATION		VARNISH	
CURE	1 X $\frac{15}{16}$						



Balls

Ep - 120V

Es - 680V CT - 45ma

EF1 - 5V - 2amps

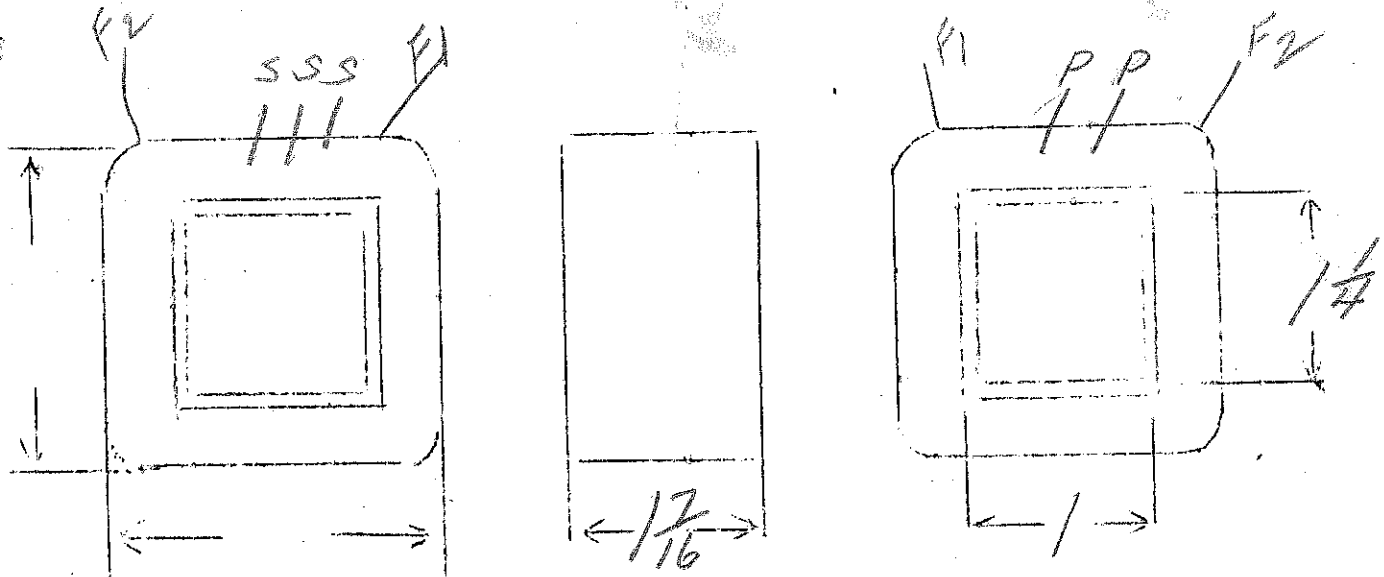
EF2 - 6.3V - 2amps

N/E 4/5

SPEC. NO.

2035

Winding	SEC	SHIELD	PR1	F1	F2		
Turns	3200	67	535	25	31		
Taps	1600	-	-	-	-		
Wind. Lgth.	1.25	1.25	1.25	-	-		
Wire Size	#36	#26	#26	#20	#20		
T.P.L.	200-16	67	67-8				
Kind Term.	sil Braided	WIRE ONLY	WIRE ONLY	WIRE ONLY	WIRE ONLY		
Term. Lgth.	3"		3"	3"	3"		
Layer Insul.	Double 16#		40#				
Wrapper	1L007VC	1L007VC	2L005GA	2L005GA	2L005GA		
TUBE	5L007+1L GA			IMPREGNATION		VARNISH	
CURE	1 x 1/4 NW						



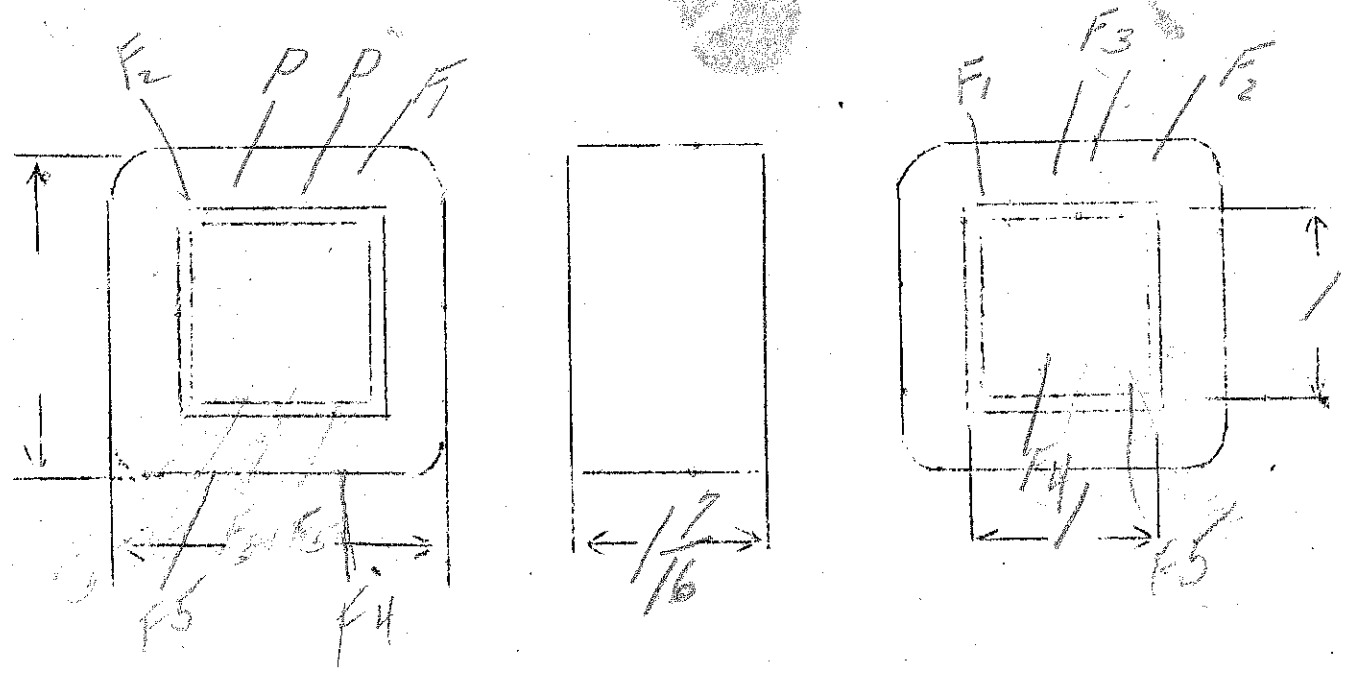
3 25
10 25
1 00

2 25
10 25
1 00

$E_p = 115V$ 59 low β - < 12% regulation
 $E_{S1} = E_{S2} = E_{S3} = E_{S4} = 3.0V - 2.5amp$
 $E_{S5} = 1.0V$

$VA = \frac{N}{\dots} =$ SPEC. NO. 2036

Winding	PR1	F1	F2	F3	F4	F5		
Turns	680	20	20	20	20	7		
Taps	-	✓	✓	✓	✓	✓		
Wind. Lgth.	1.25							
Wire Size	#27	#18	#18	#18	#18	#19		
T.P.L.	10-10	-	-	-	-	-		
Kind Term.	Sil/Bs	WIRE ONLY						
Term. Lgth.	3"	3"	3"	3"	3"	3"		
Layer Insul.	40#							
Wrapper	21005GA	each 14005GA			21005GA			
TUBE	72007	IMPREGNATION				VARNISH		
CURE	/X/							



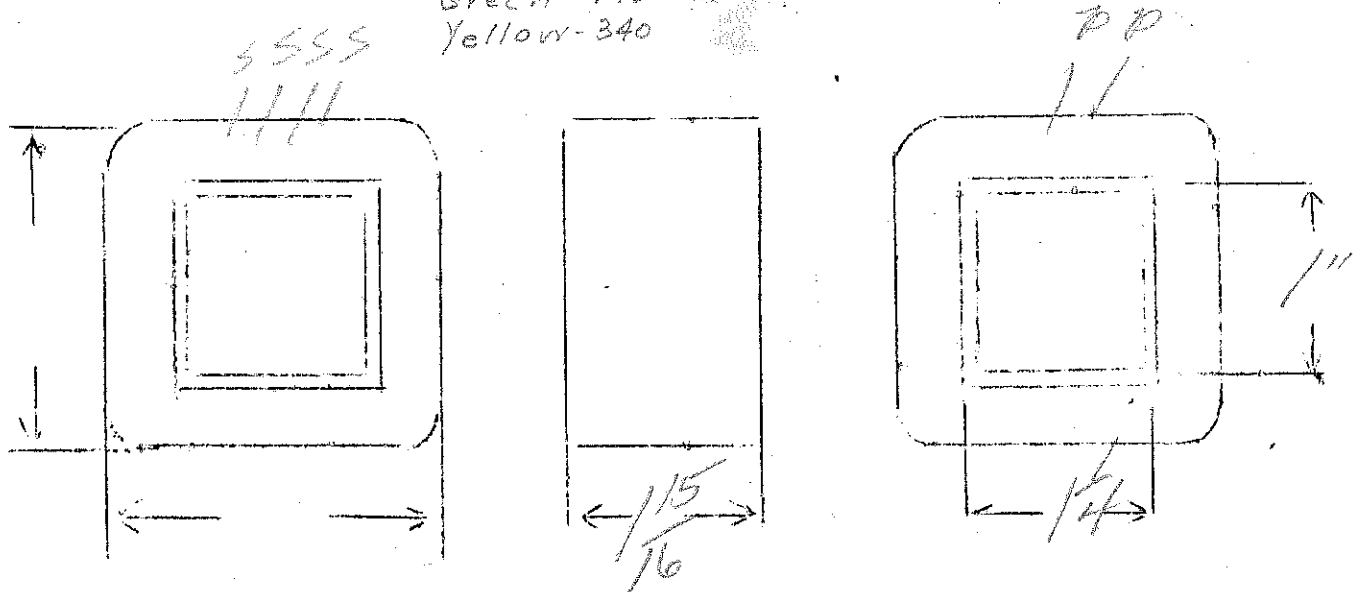
PRI - 115V.
 SEC - 340 tapped 140-40 - 250MVA
 FIL - 5V - 2 amp CT VA = 95

46

SPEC. NO. 2037

Winding	PRI	SHIELD	SEC	FIL			
Turns	530	113	1730	26			
Taps	—		710	13			
Wind. Lgth.	1.75	1.75	1.75	—			
Wire Size	#22	#28	#28	#20			
T.P.L.	59-9		113-16				
Kind Term.	#20 Braid	pl. cr	#20 Braid	WIRE ONLY			
Term. Lgth.	9"	3"	9"	9"			
Layer Insul.	50#		30#				
Wrapper	20071C	20071C	20056A	20056A			
TUBE	7L007			IMPREGNATION	VARNISH!		
CURE	1/4 x 1						

Red - Start
 Blue - 4a
 Green - 14a
 Yellow - 340



open circuit voltages

$E_p - 115$

$E_s - 320V - 5ms$

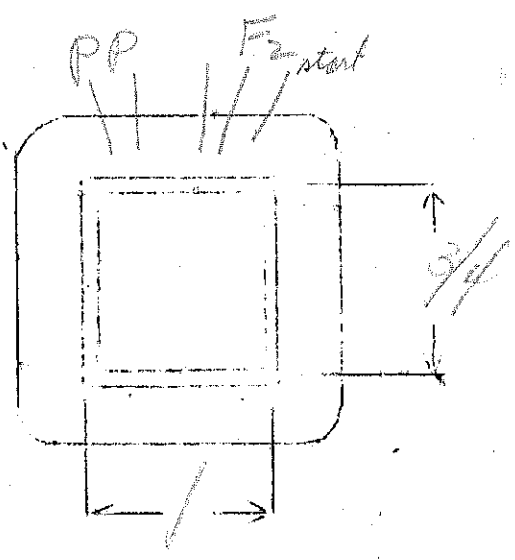
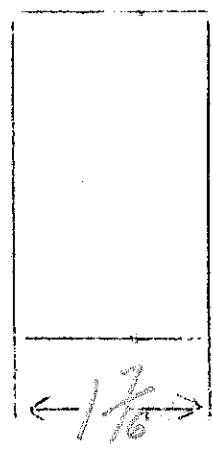
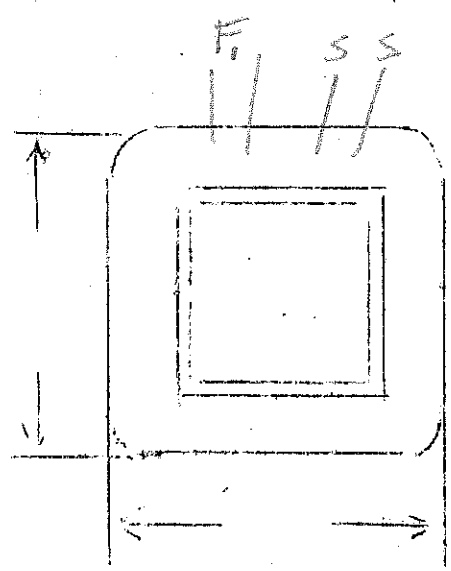
$E_f - 5.8V - 2amps$

$E_a - 8.6V \text{ tap at } 3.7 - 2.5amps$

74

SPEC. NO. 2038

Winding	SEC	PRI	F ₁	F ₂			
Turns	2400	850	43	64			
Taps	—	—	—	28			
Wind. Lgth.	1.25	1.25	1.25	—			
Wire Size	#40	#28	#20	#19			
T.P.L.	320-8	79-11					
Kind Term.	SS In	WIRE ONLY	WIRE ONLY	WIRE ONLY			
Term. Lgth.	3"	3"	3"	3"			
Layer Insul.	16#	30#	—	—			
Wrapper	11007VC	210056A	210056A	210056A			
TUBE	7L007				IMPREGNATION	VARNISH - w/str	
CURE	1X 3/4					3 hr pre heat	



over

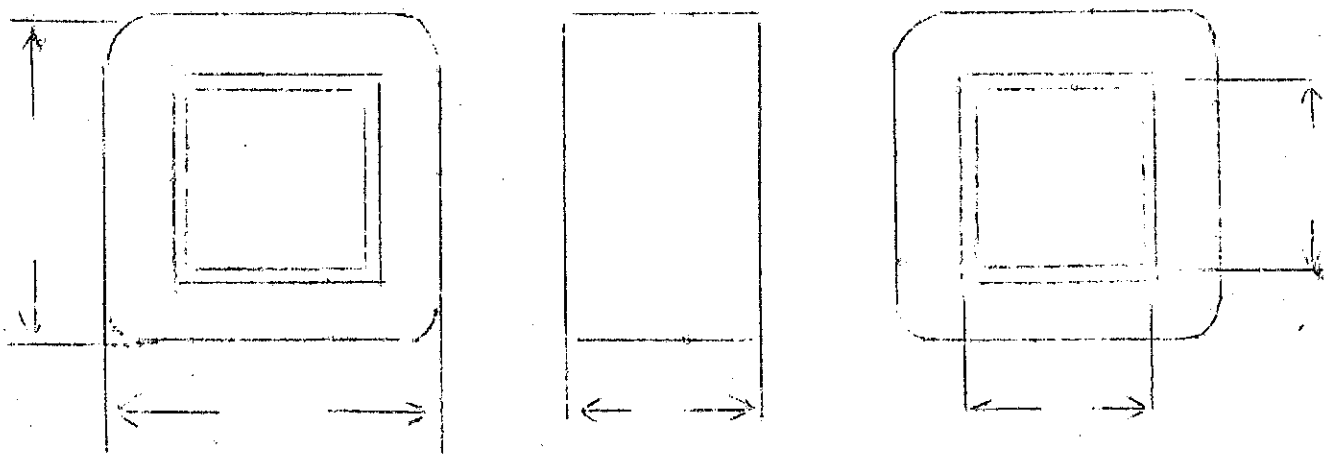
EP-110-125-220-250

SPEC. NO. 2038X

Continuum

Winding	SEC	SHIELD	PR1		F1	F2	
Turns			25V		11	14	
Taps			22V				
Wind. Lgth.							
Wire Size	#29	shin stock	20	24	17	15	
T.P.L.	12L		6L	4L			
Kind Term.							
Term. Lgth.							
Layer Insul.							
Wrapper							

TUBE		IMPREGNATION
CURE	$1\frac{1}{4} \times 2\frac{1}{2}$	

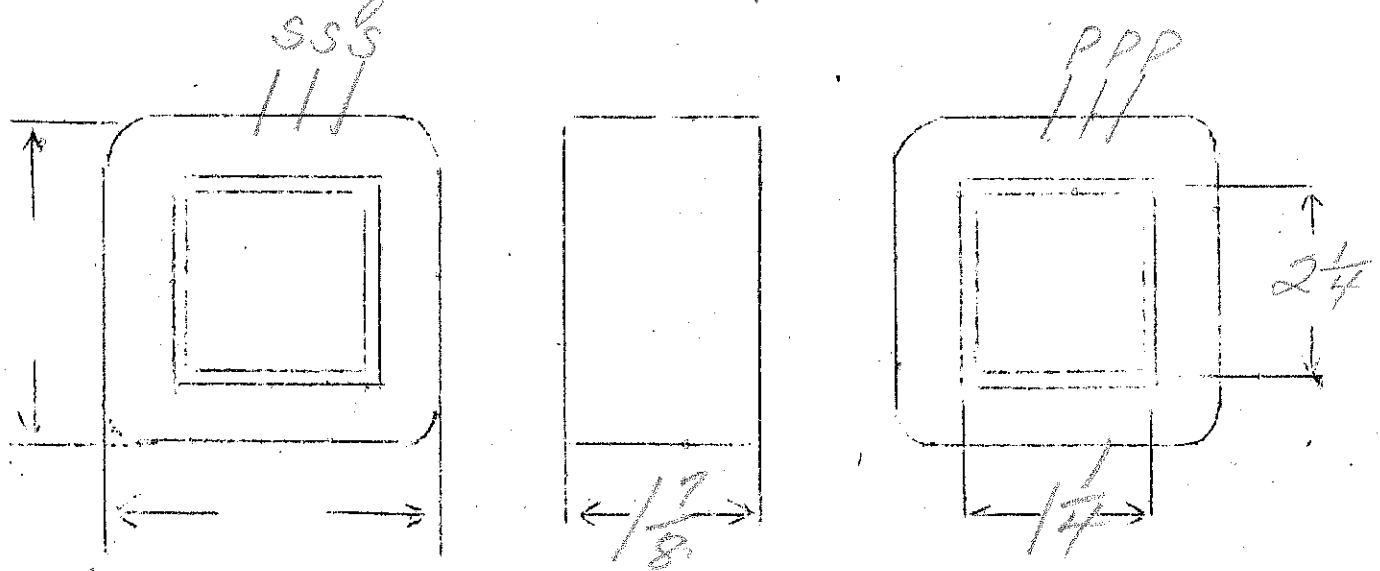


$E_p - 110, 125$
 $E_s - 750V$ open circuit - 150M Ω
 $E_{F1} - 6.3V - 4.5$ amps hammer
 $E_{F2} - 5V - 3$ amps

SPEC. NO. 2039

Winding	SEC	SHIELD	DRI	F ₁	F ₂		
Turns	1750	1	278	12	15		
Taps	875	-	245	-	-		
Wind. Lgth.	1 1/4	1 1/4	-				
Wire Size	#29	shim alclad	#20	#17	#15		
T.P.L.	128-14		42-7				
Kind Term.	#20 P Braid	Sil Bn	#20 P Braid	WIPE	ONLY	slowing	
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	double 30#		double 40#				
Wrapper	12007VG 3100	12007VE	21007GD			31007GA	
TUBE	74007			IMPREGNATION		VARNISH	
CURE	1 1/4 x 2 1/4						

3A MT6 - 2 grommets 1 3/8" apart on horizontal center line



0 brown
 110 yellow
 125 green
 Sec. Black - blue CT
 6.3V - green
 5V - yellow

Ep - 110-125 + 220-250

Es - 750 Vopen - 150 Mo

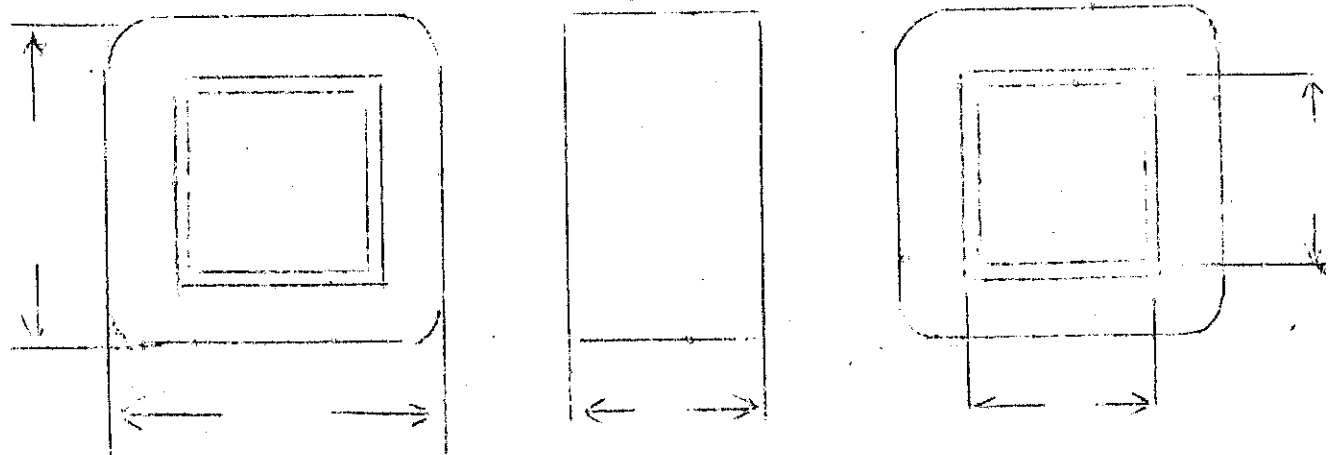
EF - 6.3V - 4.5 amper

EF - 5V - 3 amper

SPEC. NO. 20001

Continued

Winding	SEC	SHIELD	PRI	F1	F1	F2
Turns	2040		322	322	14	18
Taps						
Wind. Lgth.	1.75	1.75	1.75			
Wire Size	#30	shim stock	#21	#25	#17	#16
T.P.L.	14L		6L	4L		
Kind Term.	#20 P Braid	Ail Br	#20 P Braid		WIRES ONLY	
Term. Lgth.						
Layer Insul.	double 30 #					
Wrapper	1L007VC 3L007	1L007VC	2L007GA			
TUBE	7L007+1L007VC			IMPREGNATION		VARNISH
CURE	1/4 x 1/8					



Ep - 110, 125

E3 - 750 V open - 150 MA

EF - 6.3V - 45amps

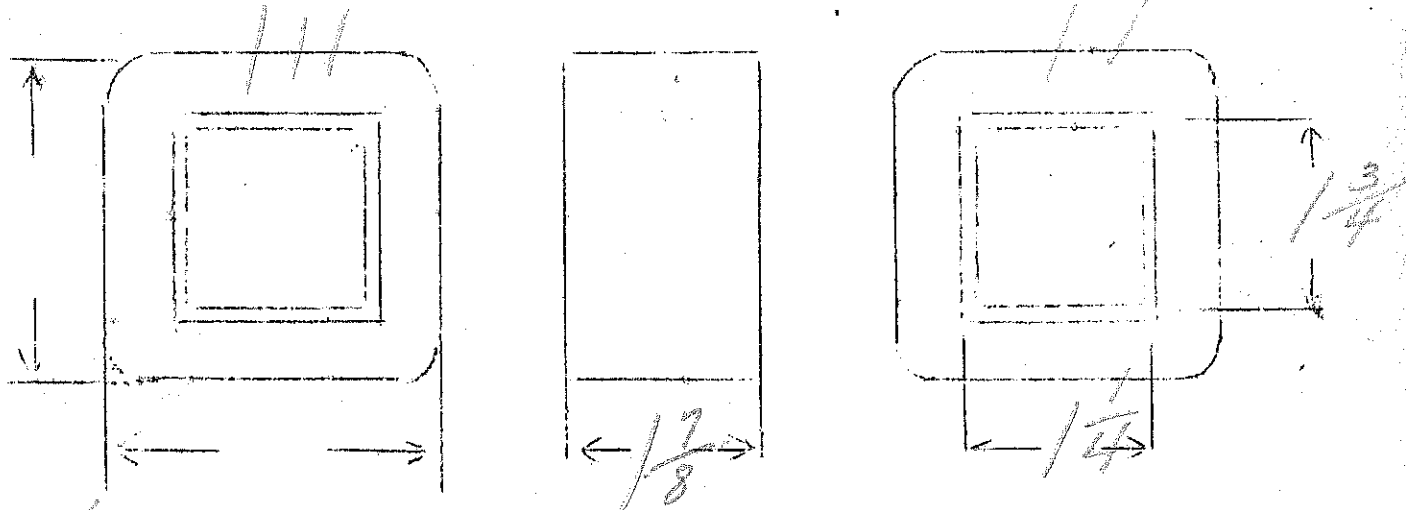
EF - 5V - 3amps

2.75

SPEC. NO. 2040

Winding	SEC	SHIELD	PRI	F1	F2		
Turns	2180	1	345	15	19		
Taps	1090		303	-	-		
Wind. Lgth.	1 1/16	1 1/16	1 1/16	-	-		
Wire Size	#30	Shun Steel	#21	#17	#15		
T.P.L.	138-16		53-7				
Kind Term.	#20 P Braided	W/B	#20 P Braided	W/B	C/V4		
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	double 30#		double 40#				
Wrapper	1000TVC 3L 20	1000TVC	20076A	20076A	20076A		
TUBE	7L007			IMPREGNATION		VARNISH	
CURE	1 1/4 x 1 3/4						

5A MTB grimmets 1 3/8" apart
355



Pri
0 - brown
110 - yellow
125 - green

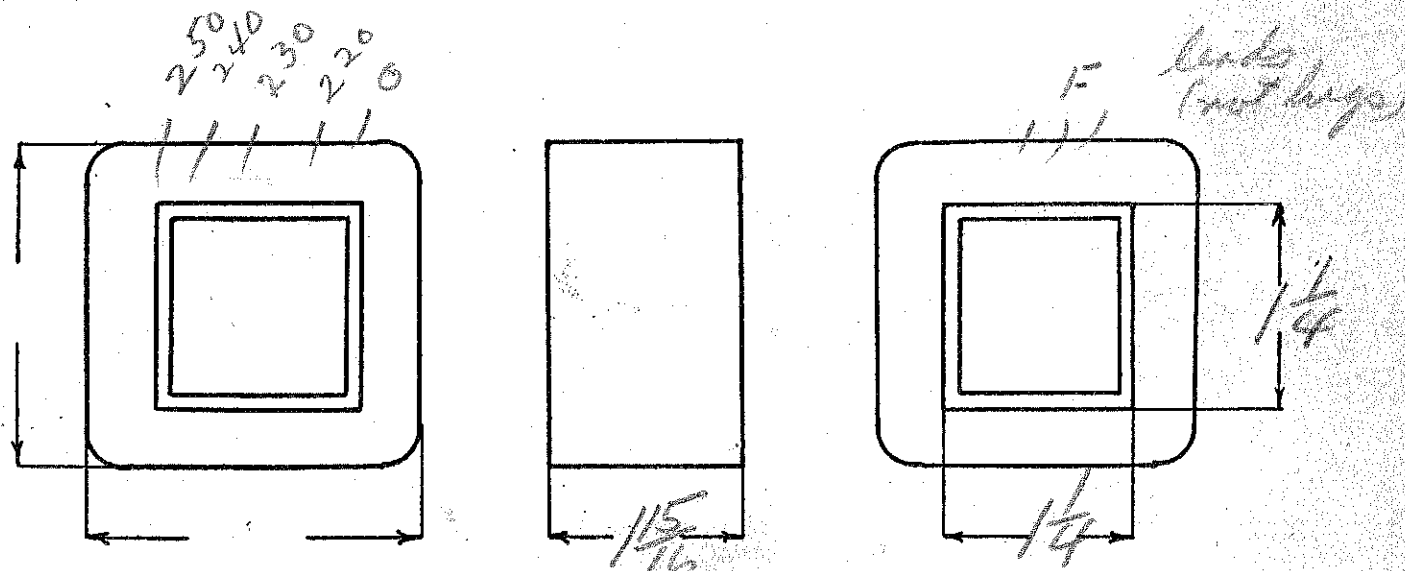
Sec
black - blue CT
6.3 - green sleeving
5.0 - yellow sleeving

P - 220-230-240-250V 40 cps
 S - 1V - 8 amp

SPEC. NO. 2041-230V-40W

Winding	ϕ		S			
Turns	1160		56			
Taps	1020-1064-1112		28			
Wind. Lgth.	1.75					
Wire Size	#25		#12			
T. P. L.	85					
Finish						
Type Lead	WIPE ONLY					
Lead Lgth.	6"		6"			
Layer Insul.	40#		.007K			
Test Volt.						
Wrapper	2L1076A		2L1076A			Double
TUBE	72007			IMPREGNATION		Varnish

CORE GA. GRADE STACK
 MOUNTING C - mount on special casting on 4742-230V-40W



DESIGNED BY *[Signature]*

DATE 8/17/39

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

Special 40-50

$E_s = 11V - 8 \text{ amp.}$

SPEC. NO. 2041-40-50W

Winding	Pri	Sec					
Turns	580	56					
Taps	532 510	28					
Wind. Lgth.	1.75	-					
Wire Size	#22	#12					
T. P. L.	60-						
Finish							
Type Lead	Wire Only						
Lead Lgth.	6"	6"					
Layer Insul.	50 ^u	.007k					
Test Volt.	1250						
Wrapper	7L0076A	7L0076A					

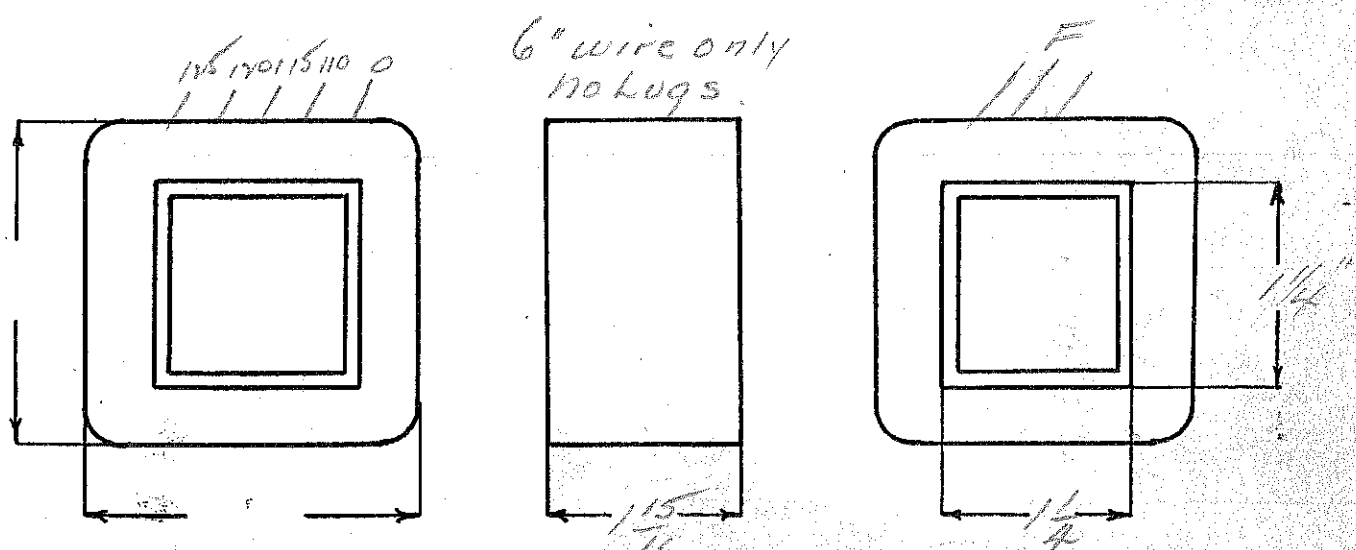
TUBE	7L007 10	IMPREGNATION	Double Varnish
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CORE	1 1/4 x 1 1/4	GA.	24 Ga	GRADE	D	STACK	2x2
------	---------------	-----	-------	-------	---	-------	-----

MOUNTING C-mount pyramid with #4742-40-50W

M.W. Complete

(60v use 1 1/4 x 1 1/4 tube)



DESIGNED BY J.S.S.

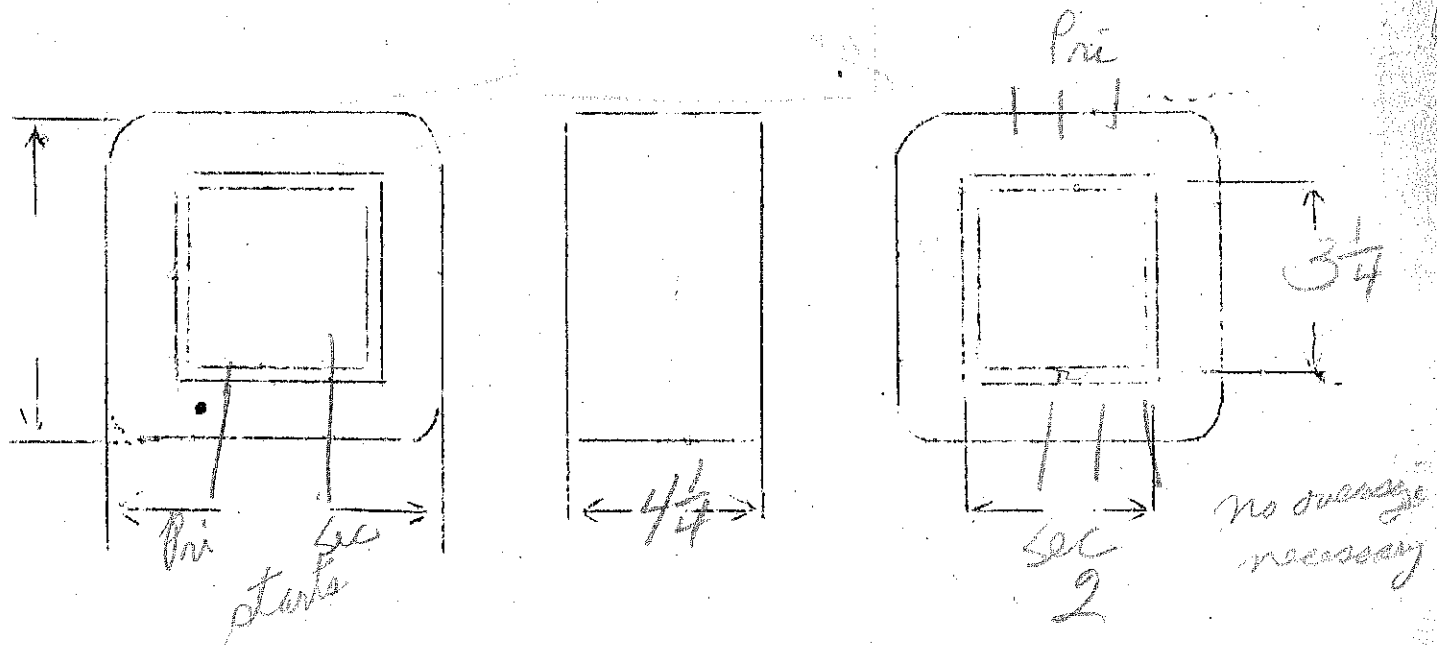
DATE 5/29/50

Es - red 3050 - green 2620 - black 2260 (open) blue stock

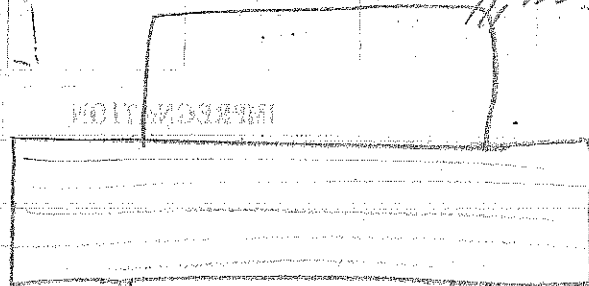
Ep - 110 - 125 - 140 - 155 - 170 - 185 - 200 - 215 - 230 - 245 - 260 - 275 - 285

SPEC. NO. 2042

Continuous							
Winding	SEC		PRI				
Turns	2700 2320		98	39	39	26	
Taps	2000			26 13	26 13	13	
Wind. Lgth.	3 3/4		—				
Wire Size	#24		#10 SQUARE	#12	#14	#16	
T.P.L.	167-17						
Kind Term.	#20 Braid		WIRE ONLY	—————>			
Term. Lgth.	9"		4"	—————>			
Layer Insul.	double 50#		.007 KRAFT				
Wrapper	2100 SGA 3200 TVC 2000 SGA		2100 SGA				
TUBE	91007 HLOS TVC			IMPREGNATION		VARNISH	
CURE	2 x 3 1/4						



WORK NO.



14 Pri Loop

INTEGRATION

Pri start bus

Sec start bus

sec leads

Ep - 115V.

Es₁ - 6.3V - 1amp

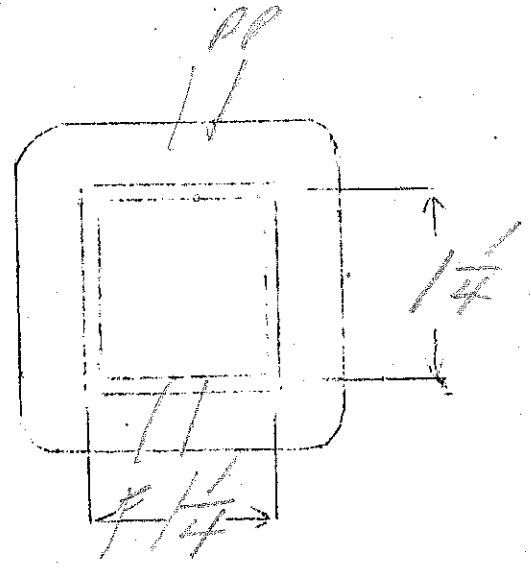
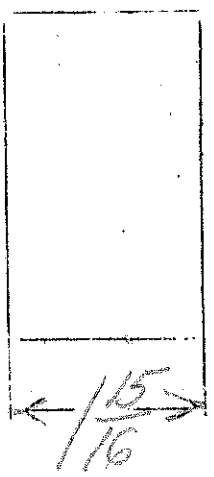
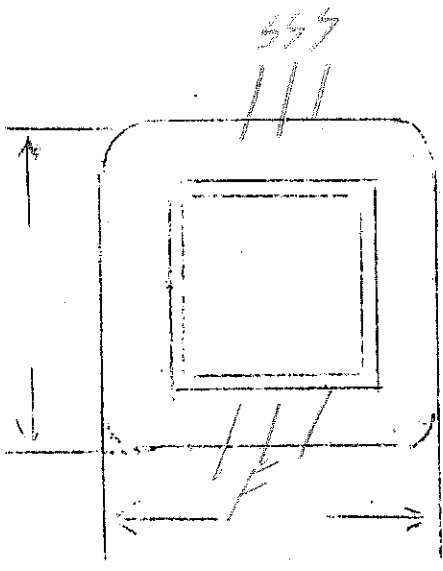
Es₂ - 12V - 10amp CT

Es₃ - 300V.C.T. - 50Ma

445

SPEC. NO. 2043

Winding	PRI	SHIELD	SEC	F ₁	F ₂		
Turns	512	250	1470	58	31		
Taps	—	—	7.35	29	—		
Wind. Lgth.	1.75	1.75	1.75				
Wire Size	#21	#35	#35	#12	#22		
T.P.L.	52-10		250-6				
Kind Term.	W/O.	silver	Brass	WIRE ONLY			
Term. Lgth.	4"	3"	4"	4"	4"		
Layer Insul.	50#	30#	30#	—	—		
Wrapper	2L007VC	2L007VC	2L007GA	2L007GA	2L007GA		
TUBE	7L007			IMPREGNATION		VARNISH	
CURE	1 1/4" x 1 1/4"						



Ep - 220-230-240

ES - 1450071200V ea. side CT

SPEC. NO. 2044

Winding	SEC	PRI				
Turns	4100 2750	312				
Taps	2050 350	300 286				
Wind. Lgth.	2 1/4					
Wire Size	#28	#19				
T. P. L.	150	6L				
Finish						
Type Lead	WIPE ONLY					
Lead Lgth.	6"	6'				
Layer Insul.	double 30#	.007K				
Test Volt.						
Wrapper	2L007VC 2L005GA	2L005FA				

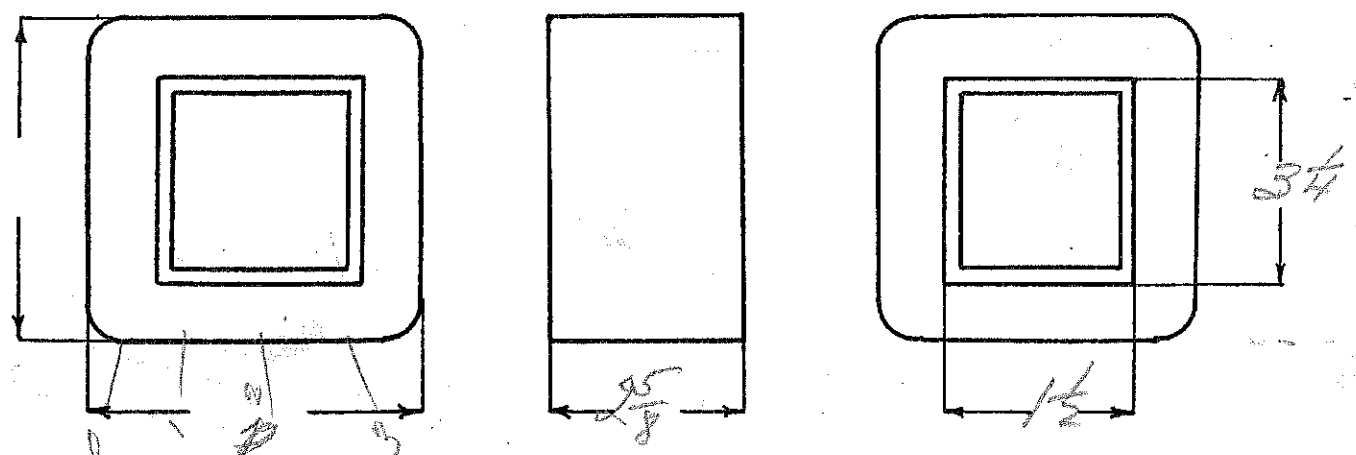
TUBE 9007 + 12007VC IMPREGNATION varnish

CORE GA. 24 GRADE D STACK 2x2

MOUNTING G

double glassine over spirals

5



DESIGNED BY

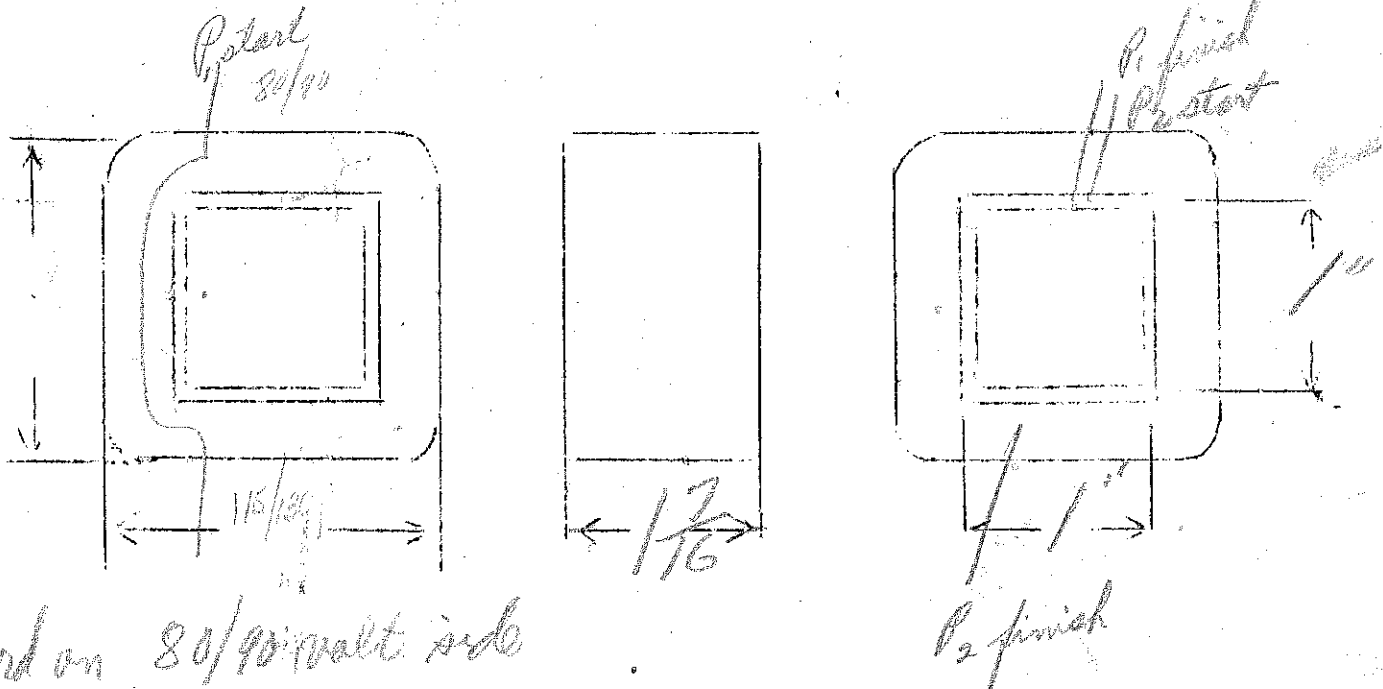
DATE

75 watt - step up 80/90 to 115/25

6.0

SPEC. NO. 2045

Winding	Continuous					
Turns	P ₁ 540	P ₂ 260				
Taps						
Wind. Lgth.	1.25	1.25				
Wire Size	#25	#23				
T.P.L.	60-9	62				
Kind Term.	WIPE ONLY					
Term. Lgth.	3"	3"				
Layer Insul.	40#	50#				
Wrapper	31005GA					
TUBE	7L007		IMPREGNATION		VARNISH	
CURE	/ X /					



Core on 80/90 volt side

Rec on 115/25 volt side

07 1952

$\frac{115}{125}$

#23

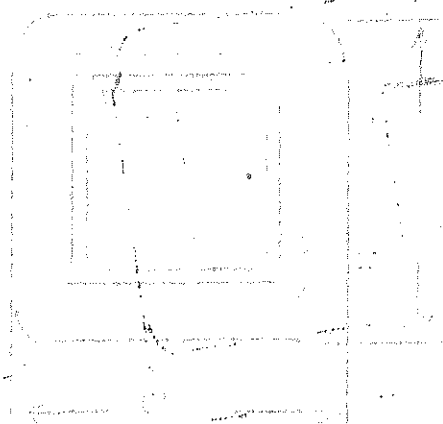
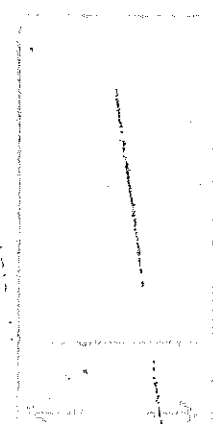
80/90

65 amp

#25

1 amp

WOLFE



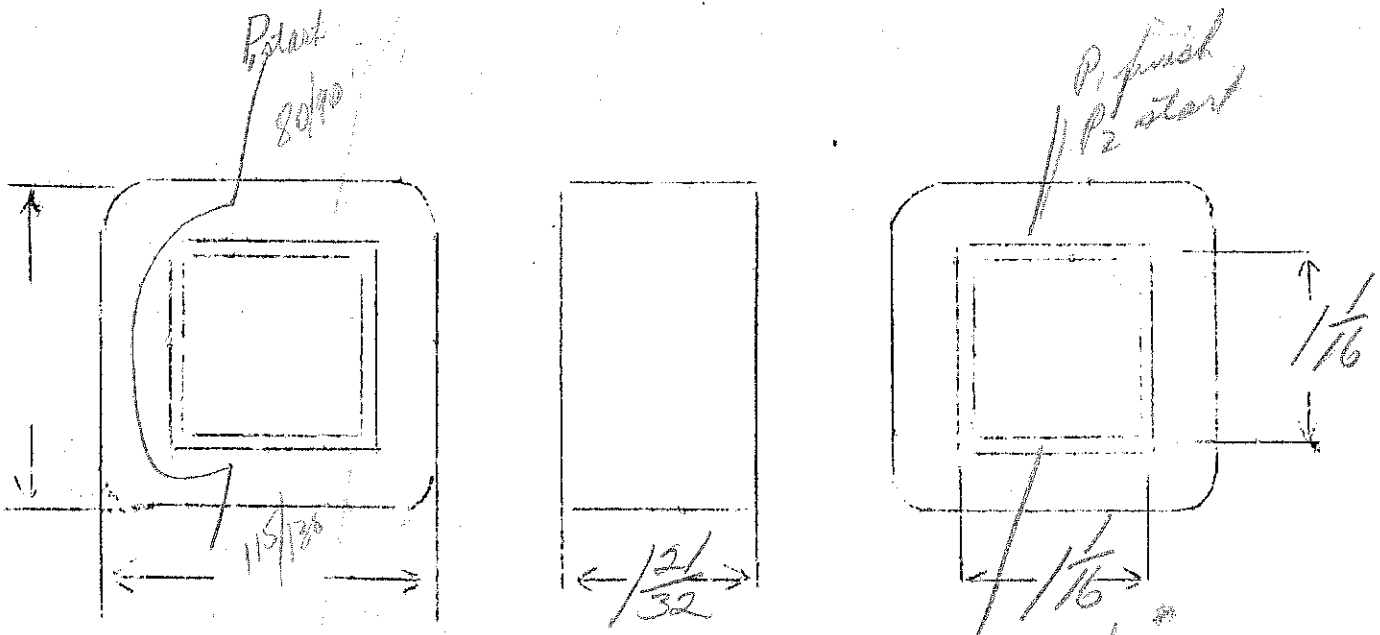
Step up 80/90 to 115/25
150 watt

51

SPEC. NO. 2046

Continuous

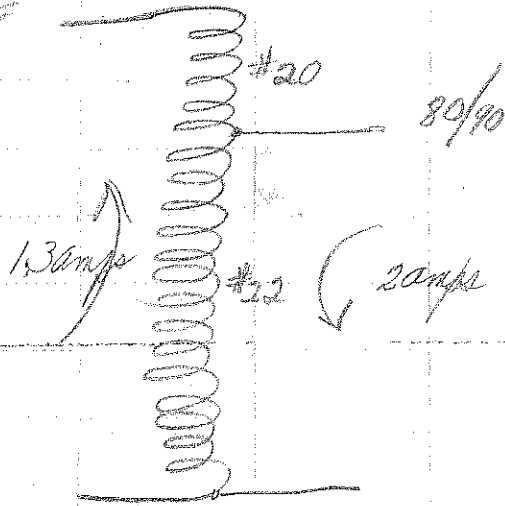
Winding	P ₁	P ₂				
Turns	459	225				
Taps	-	-				
Wind. Lgth.	$\frac{1}{32}$	$\frac{1}{32}$				
Wire Size	#22	#20				
T.P.L.	51-9	6L				
Kind Term.	WIRE ONLY					
Term. Lgth.	3"	3"				
Layer Insul.	50#	1005GA				
Wrapper		3/005GA				
TUBE	72007		IMPREGNATION		VARNISH	
CURE	$\frac{1}{16} \times \frac{1}{16}$					



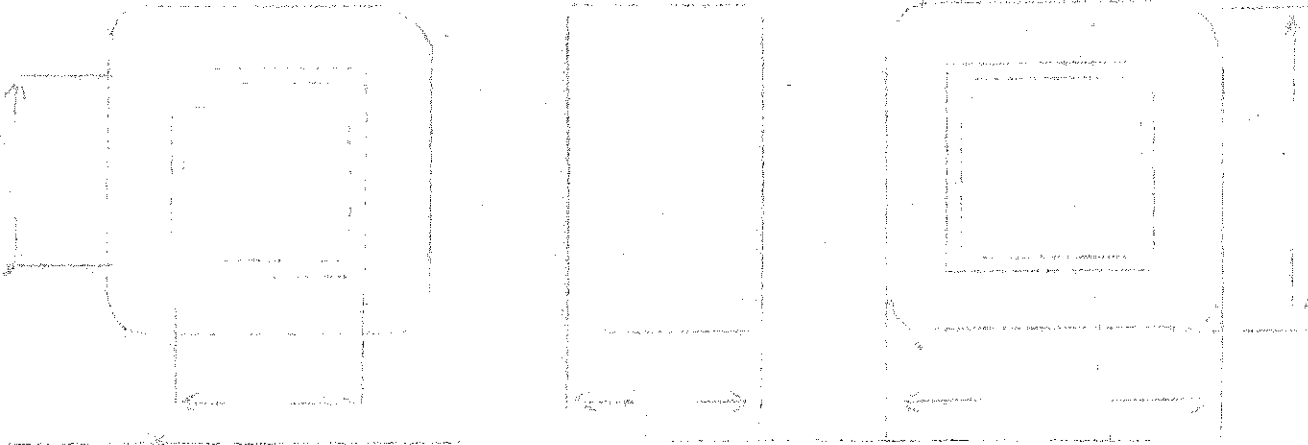
cord on 80/90 velt side
no. on 115/25 side

OK COPY

$\frac{115}{125}$



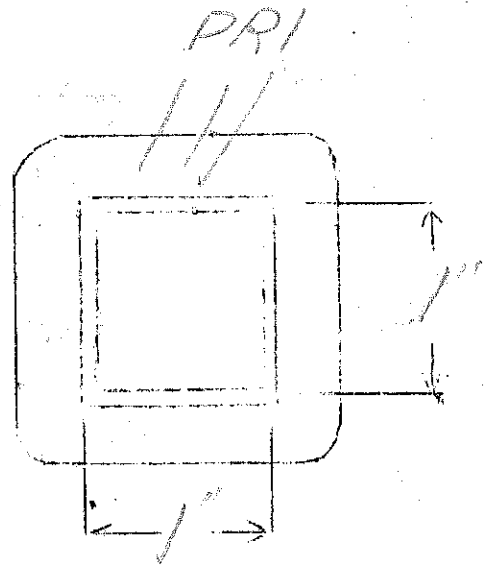
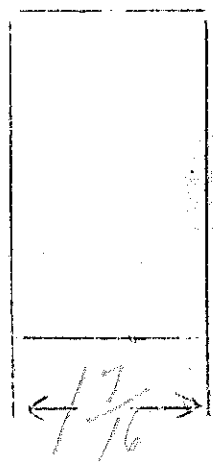
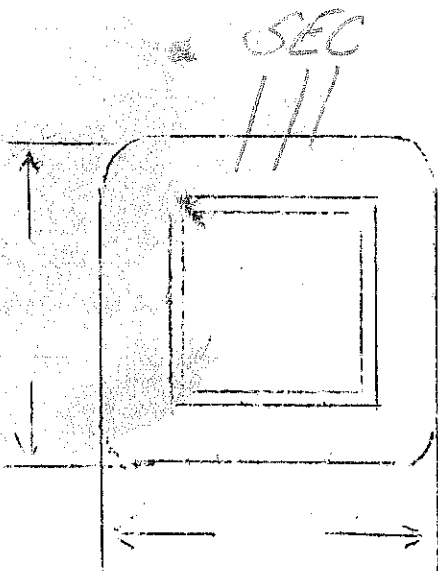
INFORMATION



auto B - 600V - 4/5 ma

SPEC. NO. 2047

Winding	SEC	SHIELD	Blank DR 1				
Turns	4600		70				
Taps	2300		35				
Wind. Lgth.	1.25	1.25	1.25				
Wire Size	#34	SHIM	#17				
T.P.L.	165-28	STOCK					
Kind Term.	#00 P Braided	Gr	WIRE ONLY				
Term. Lgth.	9"	3'	9"				
Layer Insul.	double 16#		605 GA				
Wrapper	2007VC	2005GA	2005GA				
TUBE	7L007			IMPREGNATION		VARNISH	
CURE	1 X 1 NW						



Primary - 115V

Sec 320 - 290 - 150 - 45 - 0 - 250 MA

5V - 4amps

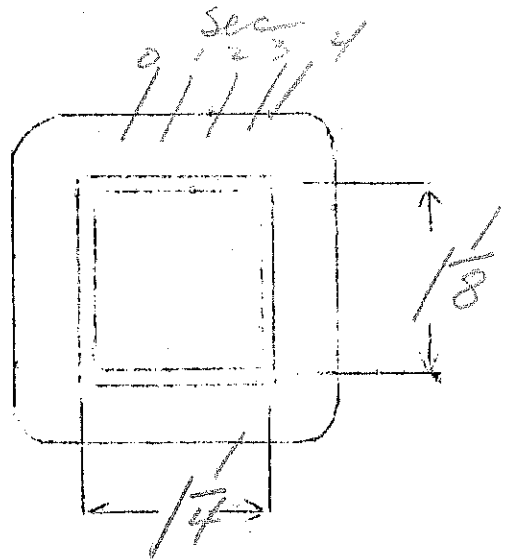
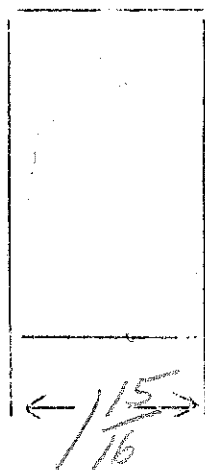
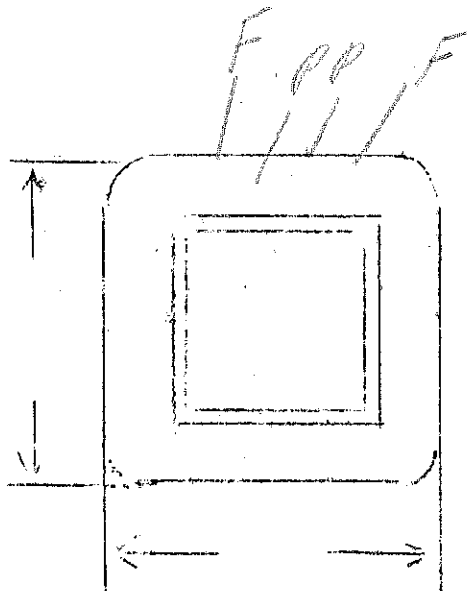
VA = 100
ME = 415

"B" MTG

SPEC. NO.

2048

Winding	PRI	SHIELD	SEC	FIL		
Turns	477	118	1470 1330 690	23		
Taps	—	—	210	—		
Wind. Lgth.	1.75	1.75	1.75	—		
Wire Size	#21	#28	#28	#16		
T.P.L.	54-9	118	118	—		
Kind Term.	WIPE ONLY	WIPE ONLY	WIPE ONLY			
Term. Lgth.	3"	3"	3"	3"		
Layer Insul.	50#	—	40#	—		
Wrapper	1L007VC	1L007VC	2L0076A	2L0076A		
TUBE	7L007	IMPREGNATION		VARNISH		
CURE	1/4 x 1/8					



Ep - 115-128-146-171-203
 Es - 2000VET-250MA

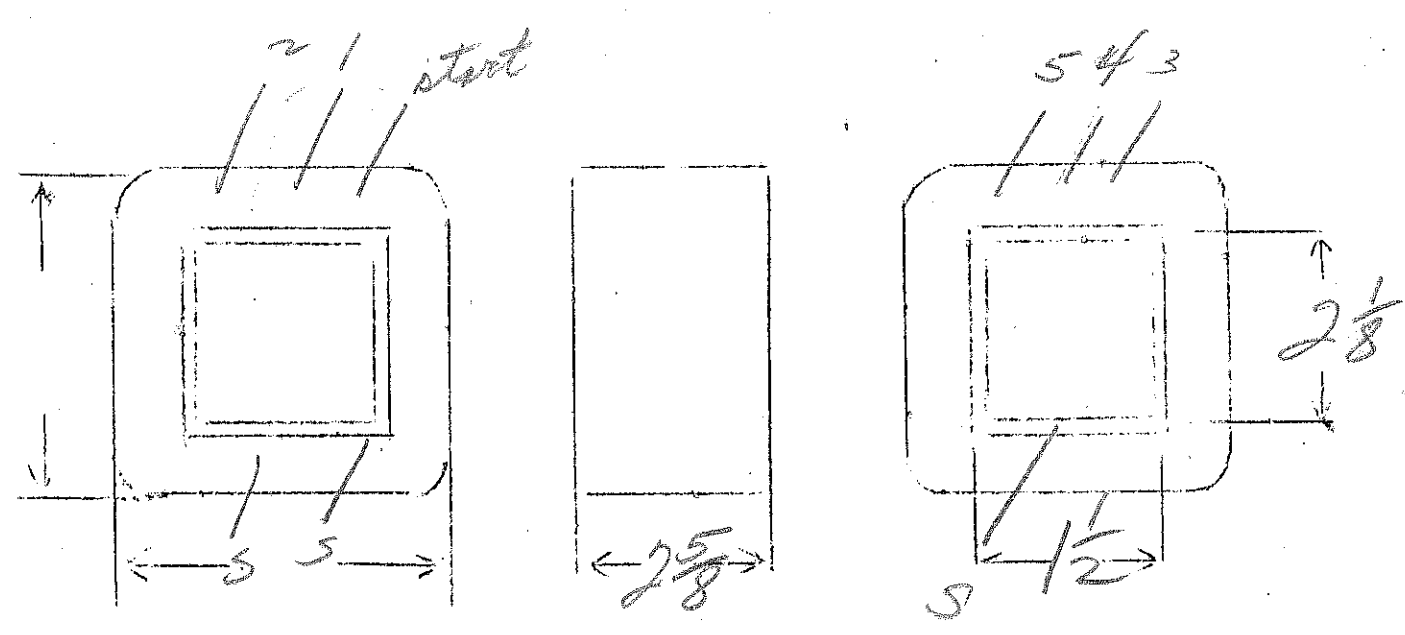
to deliver from 500 to 900Vdc
 in 100 volt steps
 250MA choke input

VA-250

SPEC. NO. 2049

Continuous 183

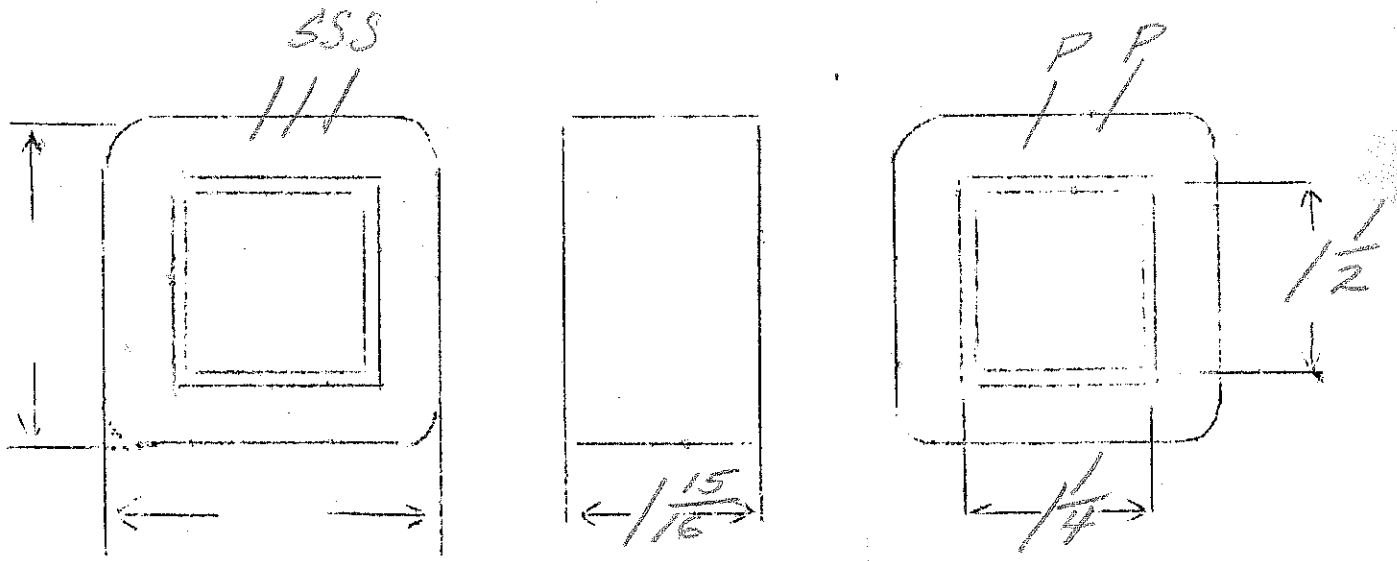
Winding	SEC	PR1				
Turns	4000	212	57	104		
Taps	2000	—	24	45		
Wind. Lgth.	2 $\frac{3}{8}$	—	—	—		
Wire Size	#28	#18	#20	#22		
T.P.L.	156-26	4 $\frac{1}{2}$ L	1L	2L		
Kind Term.	WIRE	ONLY				
Term. Lgth.	4"	4"	4"	4"		
Layer Insul.	Kanble					
Wrapper	30# 2L007VC 2L005GA	Kraft		2L005GA		
TUBE	9L007+2L007VC			IMPREGNATION	Varnish	
CURE	1 $\frac{1}{2}$ x 2 $\frac{1}{8}$					



$E_p - 115V$
 $E_3 - 250V - 150 MA$
 $E_{F_1} - 6.3V - 1.6 \text{ amps CT}$
 $E_{F_2} - 6.3V - 2.5 \text{ amps CT}$
 $E_{F_3} - 5V - 3 \text{ amps}$

SPEC. NO. 2050

Winding	SEC	SHIELD	PRI	^{ground} F ₁	F ₂	F ₃
Turns	2700	163	380	18	23	23
Taps	1350	—	—	—	12	12
Wind. Lgth.	1.75	1.75	1.75	—	—	—
Wire Size	31	31	21	18	#21	#18
T.P.L.	151-18	163	55-7	—	—	—
Kind Term.	#20 P Braided	silver Braided	#20 Per Br.	WIRE ONLY		
Term. Lgth.	9"	3"	9"	9"	9"	9"
Layer Insul.	double 20#	—	50#	—	—	—
Wrapper	1L007VC	1L007VC	2L007BA	2L007GA	2L007GA	2L007GA
TUBE	7L007	IMPREGNATION			VARNISH	
CURE	1/4 x 1/2					

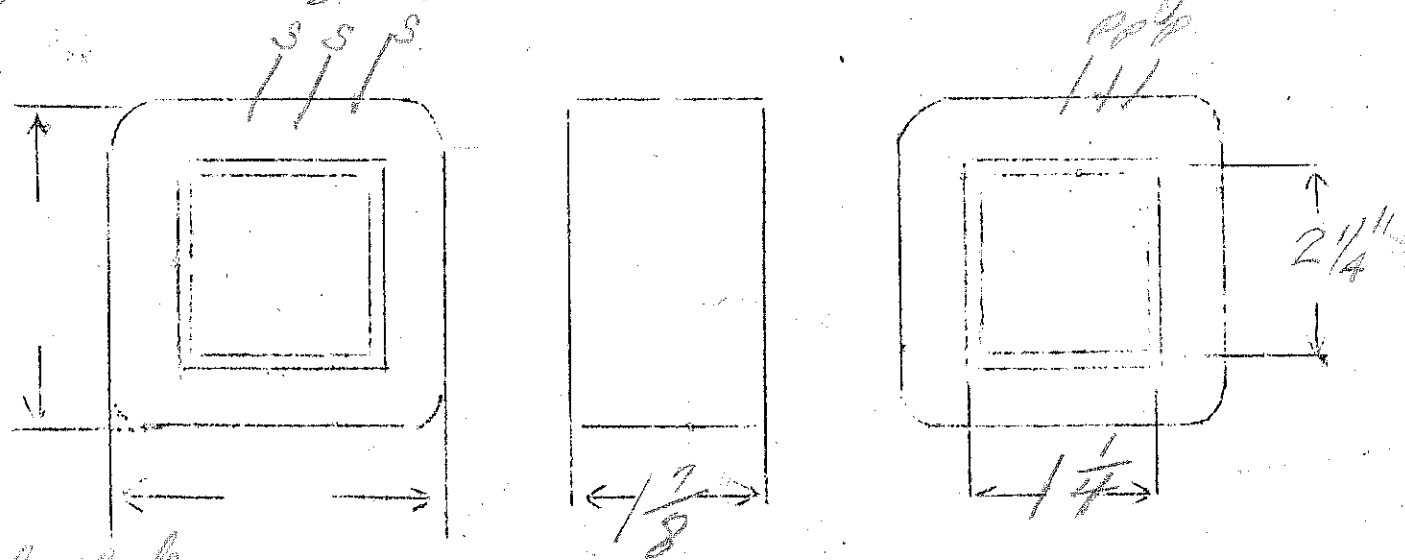


Ep - 110-125
 660
 Es - 720V CT - 150Ma
 Ep - 6.3V - - 4.5 amps
 Ef - 5V - 3 amp

SPEC. NO. 2051

Winding	SEC	SHIELD	PRI	white F ₁	green F ₂	special color
Turns	1640	1	286	12	15	
Taps	820		252			
Wind. Lgth.	1 1/16					
Wire Size	#29	skin stock	#20	#17	#15	
T.P.L.	121-14		43-7			
Kind Term.	#20 Par Braid	sil Br	#20 Par Braid	WIRE ONLY		
Term. Lgth.	9"	3"	9"	9"	9"	
Layer Insul.	double 30#		double 40#			
Wrapper	1200VC 36 1/2"	1000VC	210075A		310075A	
TUBE	71007			IMPREGNATION		VARNISH
CURE	1 1/4 x 2 1/4					

2 Drummers 1 3/8" center to center on center line of shell



Color Code

Primary start brown, tap yellow, finish green
 Secondary black - blue ct.
 5V Filament - yellow sleeving
 6.3V Filament - green sleeving

OVER

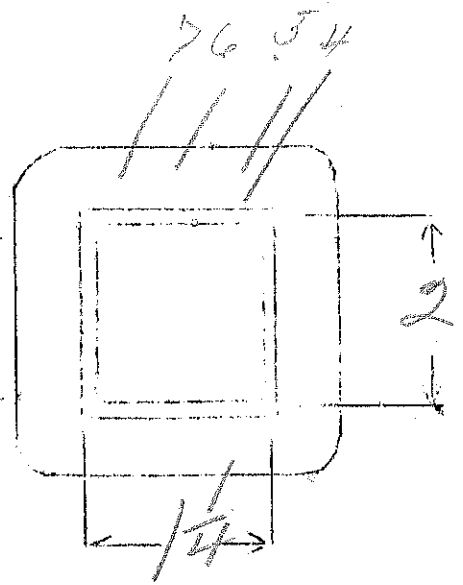
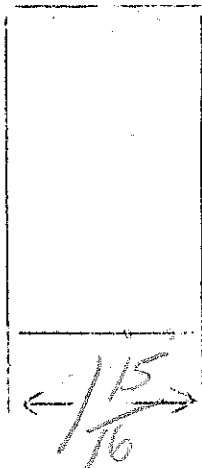
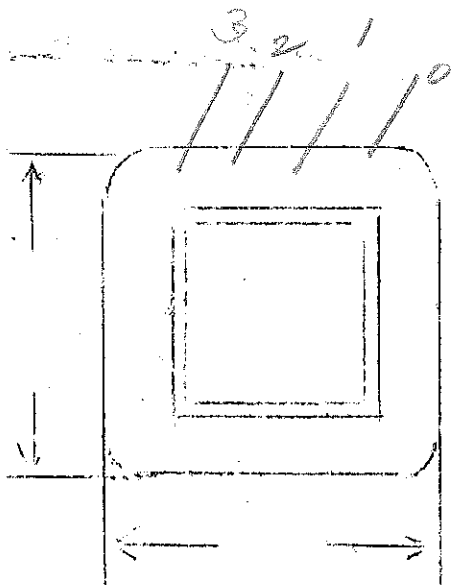
auto transformer control #1296

at

SPEC. NO. 2052

Continuous

Winding						
Turns	120	84-60	72			
Taps	-	36	48-24			
Wind. Lgth.	1.75	1.75				
Wire Size	#19	#17	#15			
T.P.L.						
Kind Term.	WIRE ONLY					
Term. Lgth.	3	3	3	3		
Layer Insul.	.007 KRAFT					
Wrapper	2L0056A					
TUBE	9L007		IMPREGNATION	VARNISH		
CURE	1/4 X 2					

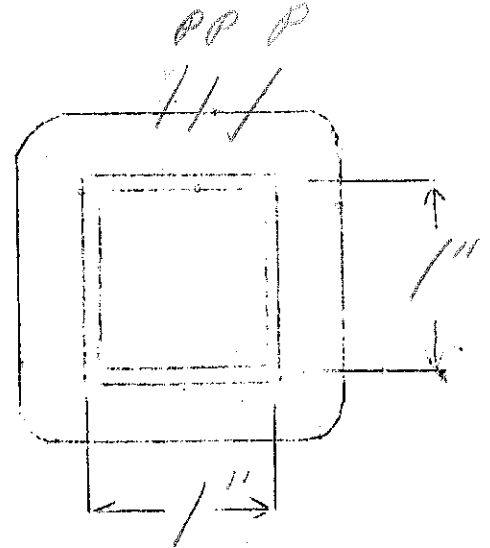
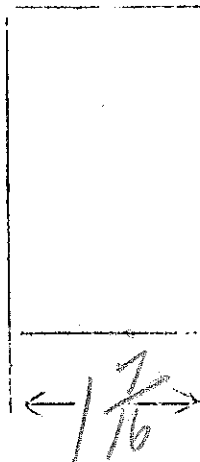
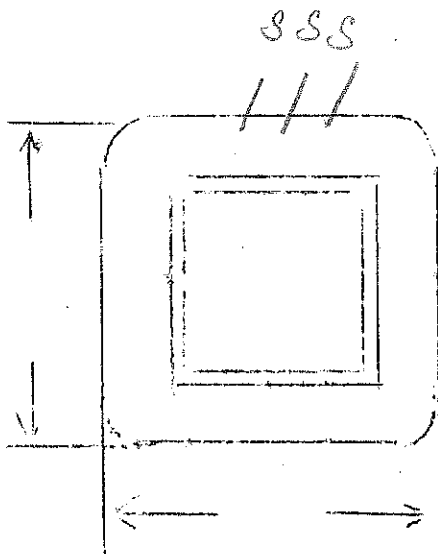


SEC - 500Vct.
PRI - 12Vdc

auto B

SPEC. NO. 2053

Winding	SEC	SHIELD	PRI				
Turns	5024	1	170				
Taps	2572		85				
Wind. Lgth.	1.25	1.25					
Wire Size	#34	skin stock	#22				
T.P.L.	157	-					
Kind Term.	#30 Cov. Cond.	at Braid	WIRE ONLY				
Term. Lgth.	9"	3"	9"				
Layer Insul.	double 16#		4#				
Wrapper	2L007VP 2L003P	2L005VP	2L005GA				
TUBE	7L007			IMPREGNATION		VARNISH	
CURE	1 X 1 NW						

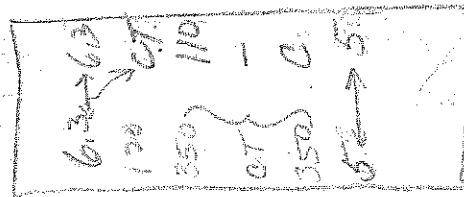


Ed - 110 - 120

Eg - 700V CT 100Ma

E_{F1} - 5V - 3amps

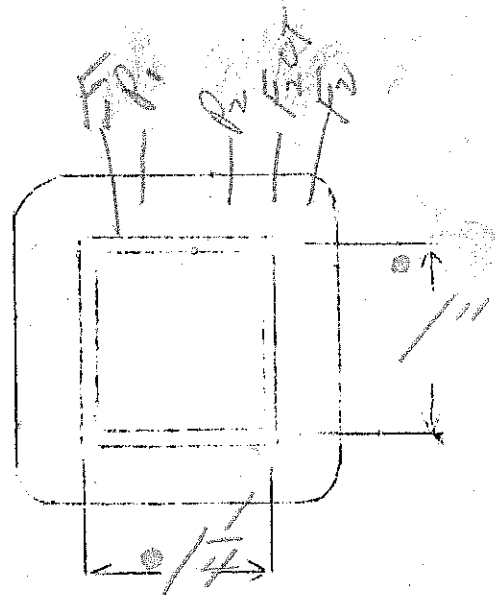
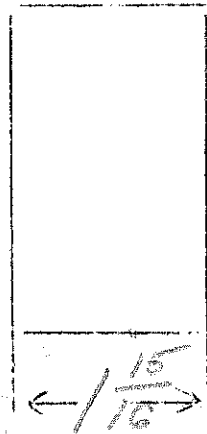
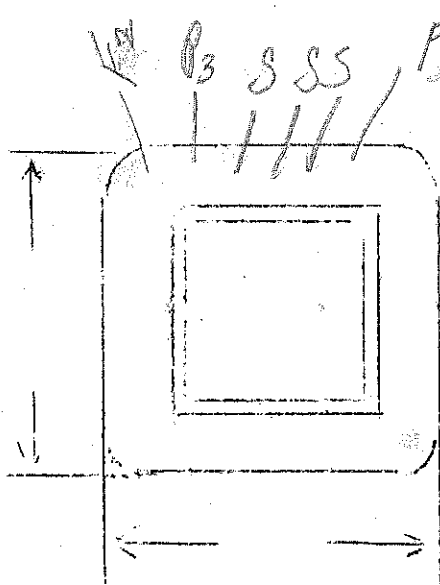
E_{F2} - 6.3V. CT. - 4amps



SPEC. NO.

2054

Winding	SEC	SHIELD	FRI	F ₁	F ₂		
Turns	3640	205	532	24	30		
Taps	1820	—	484		15		
Wind. Lgth.	1.75	1.75	1.75	—	—		
Wire Size	#33	#33	#22	#18	#16		
T.P.L.	205-18	—	61-9	—	—		
Kind Term.	sil Braid	sil Braid	—	WIPE ONLY			
Term. Lgth.	3"	3"	3"	3"	3"		
Layer Insul.	double 16#	—	50#	—	—		
Wrapper	12007V/1007V	12007V	20076A	20076A	20076A		
TUBE	72007	IMPREGNATION			VARNISH		
CURE	1 1/2 X 1						



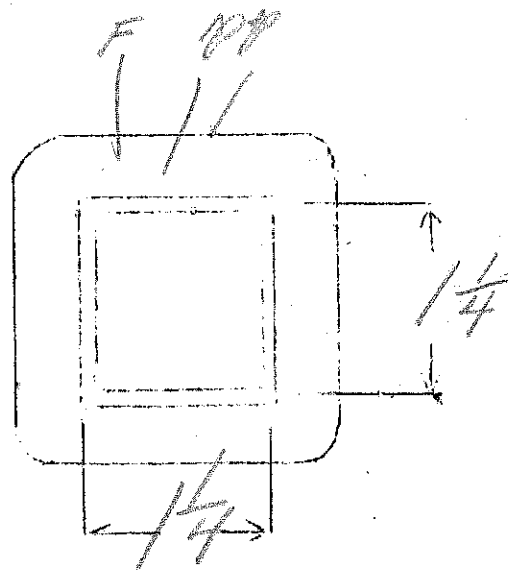
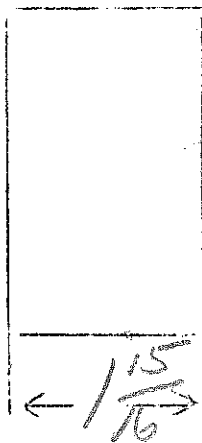
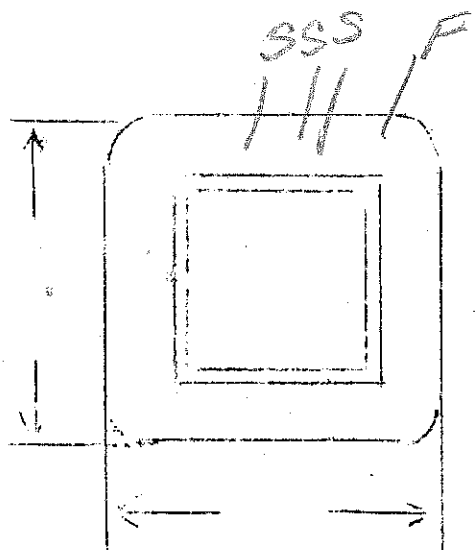
"C" mty same as 145 - mark panel as shown

$E_p - 115V$
 $E_s - 550VCT - 300MA$
 $E_f - 5V - 3amps$
 $VA = 100$
 $\frac{N}{E} = 36$

$\frac{82}{97}$

SPEC. NO. 2055

Winding	SEC	SHIELD	PRI	FL			
Turns	2000		415	20			
Taps	1000		—				
Wind. Lgth.	1.75	1.75	1.75	—			
Wire Size	#27	#27	#22	#18			
T.P.L.	100-20		60-7				
Kind Term.	#20 pwr	W.O.	#20 pwr	WIFE ONLY			
Term. Lgth.	9"	3"	9"	9"			
Layer Insul.	40#		40#				
Wrapper	1007VC	1007VC	210076A	210076A			
TUBE	71007	IMPREGNATION			VARNISH		
CURE	1 1/4 x 1 1/4						



Ep - 115V

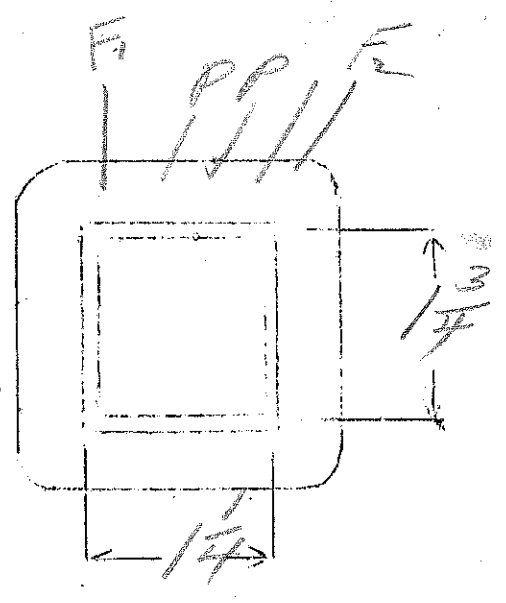
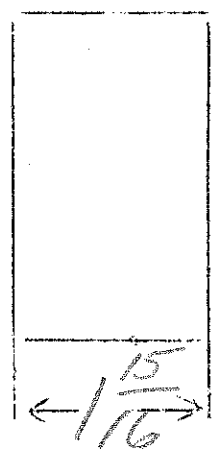
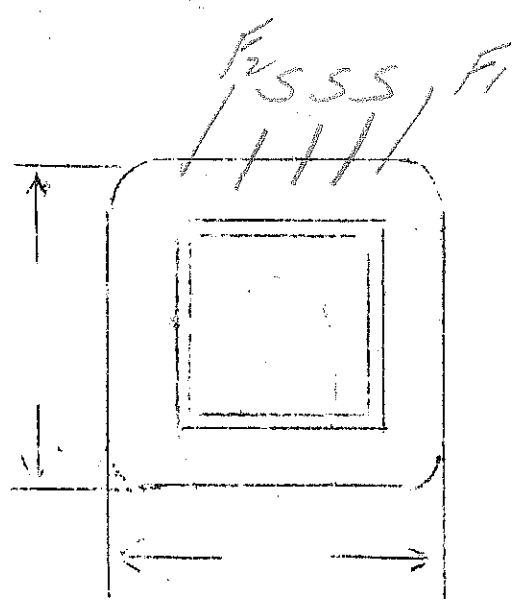
S - 700VCT-175MA

F₁ - 5V-3amps 2.7

F₂ - 6.3V.C.T - 3.5amps

SPEC. NO. 2056

Winding	SEC	SHIELD	PRI	green F ₁	Blue F ₂		
Turns	2060	130	312	15	19		
Taps	1030				9		
Wind. Lgth.	1.75	1.75	1.75	-	-		
Wire Size	#29	#29	#21	#18	#16		
T.P.L.	130-16	130	53-6				
Kind Term.	#20 Braid	Silver Braid	#20 Braid	WIRE ONLY			
Term. Lgth.	9"	3"					
Layer Insul.	double 30#		double 30#				
Wrapper	1L007C	1L007C	2L0076A		2L0075A		
TUBE	7L007			IMPREGNATION		VARNISH	
CURE	1 1/4 x 1 3/4						



To deliver 1500V or 1600Vdc at 200 Ma

EMMAC 35T

3500VCT

or -200Ma

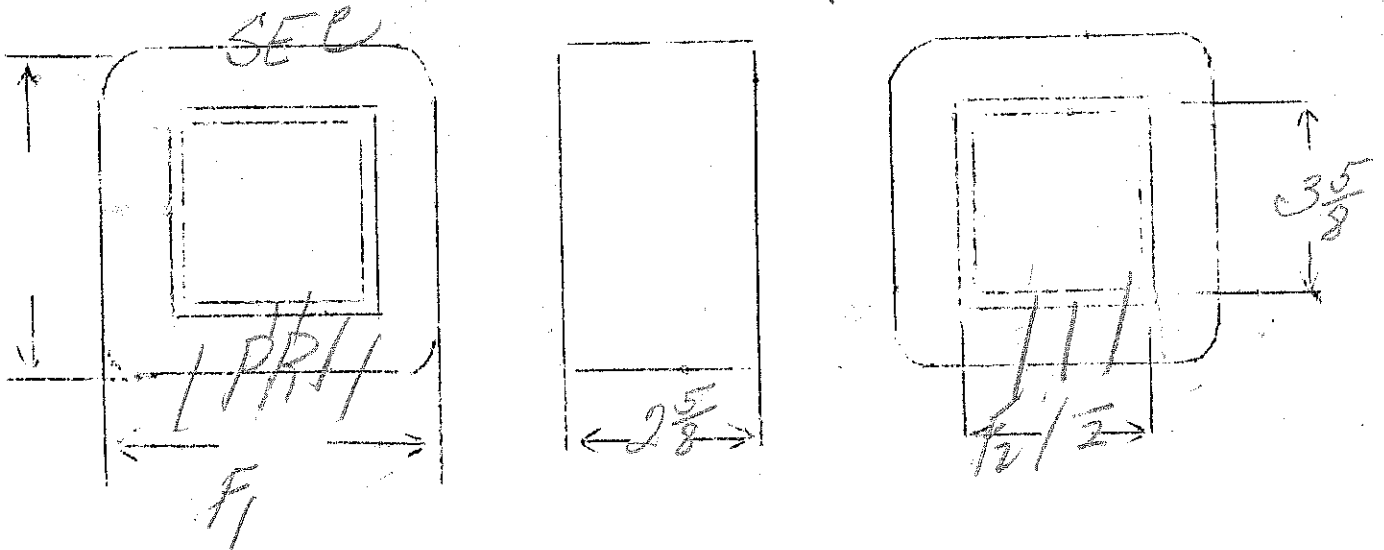
2400VCT

also F₁ - 2.5V-10amps - 5000V breakdown
 F₂ - 5V-10amps

$\frac{V}{E} = 111$ VA = 395

SPEC. NO. 2057

Winding	SFC	F ₁	F ₂	PR1			
Turns	4200 3600 2100 600	3	6	734			
Taps	1	—	3	124-117			
Wind. Lgth.	27	—	—	—			
Wire Size	#28	3L #17	3L #17	double #19			
T.P.L.	150-28	1 full layer		52			
Kind Term.	WIPE ONLY						
Term. Lgth.	6"	6"	6"	6"			
Layer Insul.	double 307			007 KRAFT			
Wrapper	31007VC 310056A		2000VC 20056A	210056A			
TUBE	10L007/21007VC			IMPREGNATION	VARNISH		
CURE	1 1/2 x 3 5/8						



To deliver 2500 or 2000 VDC at 200 ma

E_s - 5600V.C.T. or 4500VCT = 200 MA

VA - 560

$\frac{V}{E} = 1.45$

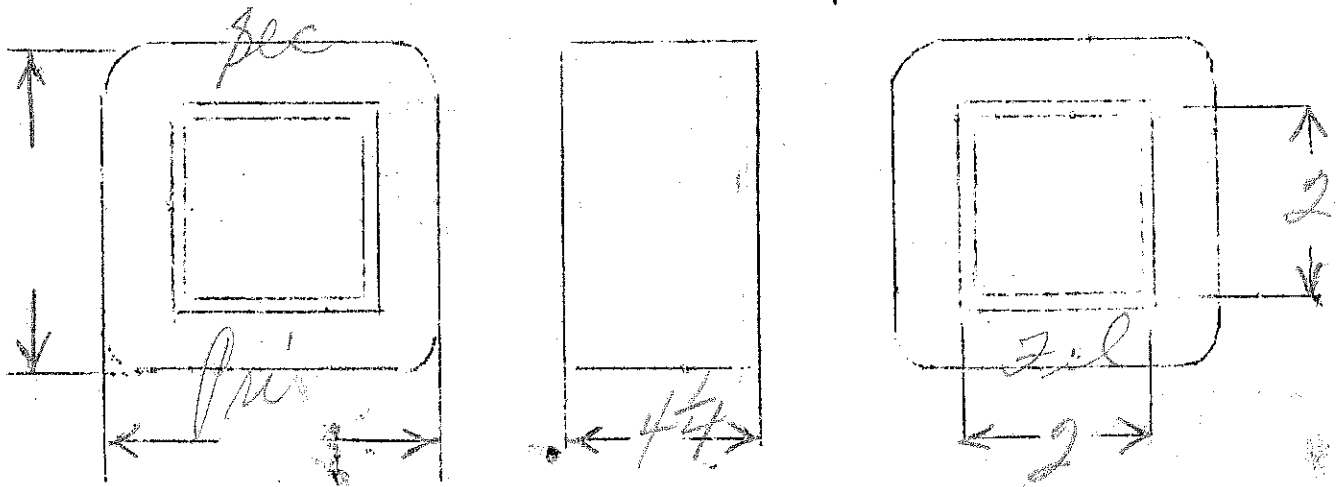
also

F₁ - 5.1V - 12amps

SPEC. NO.

2058

Winding	SEC	DR1	FIL.				
Turns	8340	174	8				
Taps	1850	162	4				
Wind. Lgth.	4420	153	4				
Wire Size	980	#14	#14				
T.P.L.	38						
Kind Term.	#28						
Term. Lgth.	24536	wire only					
Layer Insul.	6"	6"	6"				
Wrapper	double 40# 2L007VC 2L005GA	2L005GA	2L005GA				
TUBE	10L007+2L007VC			IMPREGNATION	VARNISH		
CURE	2x2						



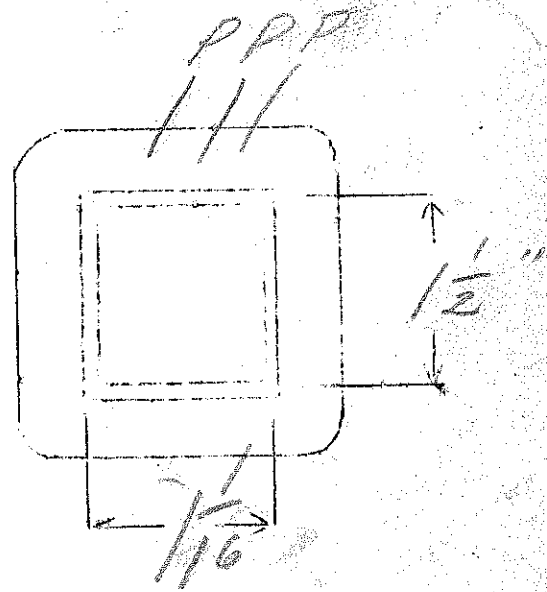
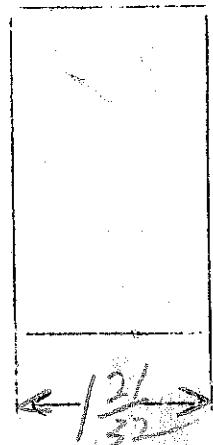
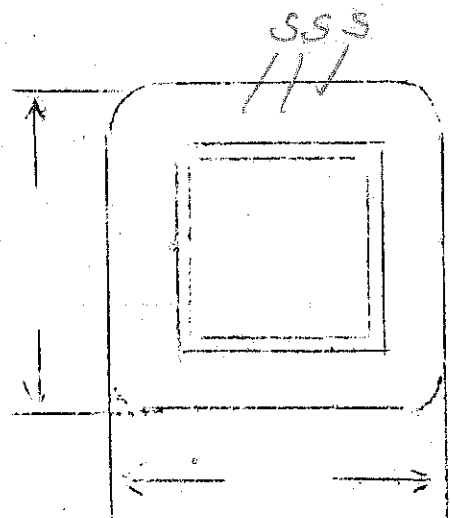
$E_p = 110-120$
 $E_s = 700 \text{ V.R.T. } 85 \text{ MA}$
 $E_1 = 5 \text{ V } - 2 \text{ amps}$
 $E_2 = 6.3 \text{ V } - 3.5 \text{ amps}$

3-6R7
 1-6D7
 2-6E6
 1-5Z4
 1-6E5
 1-6L7

3.63

SPEC. NO. 2057

Winding	SEC	SHIELD	PR1	^{white} F ₁	^{green} F ₂		
Turns	2750	1	435	20	25		
Taps	1375		399	—	—		
Wind. Lgth.	$\frac{15}{32}$	$\frac{15}{32}$	$\frac{15}{32}$	—	—		
Wire Size	#33	^{copper} shim	#23	#19	#17		
T.P.L.	173-16		57-8				
Kind Term.	#20 Braid	til Braid	#20 Braid	WIRE ONLY	WIRE ONLY		
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	double 16#	—	40#	—	—		
Wrapper	1L007VC	1L007VC	2L005GA	2L005GA			
TUBE	7L007			IMPREGNATION	VARNISH		
CURE	$\frac{1}{16} \times \frac{1}{2}$ "						



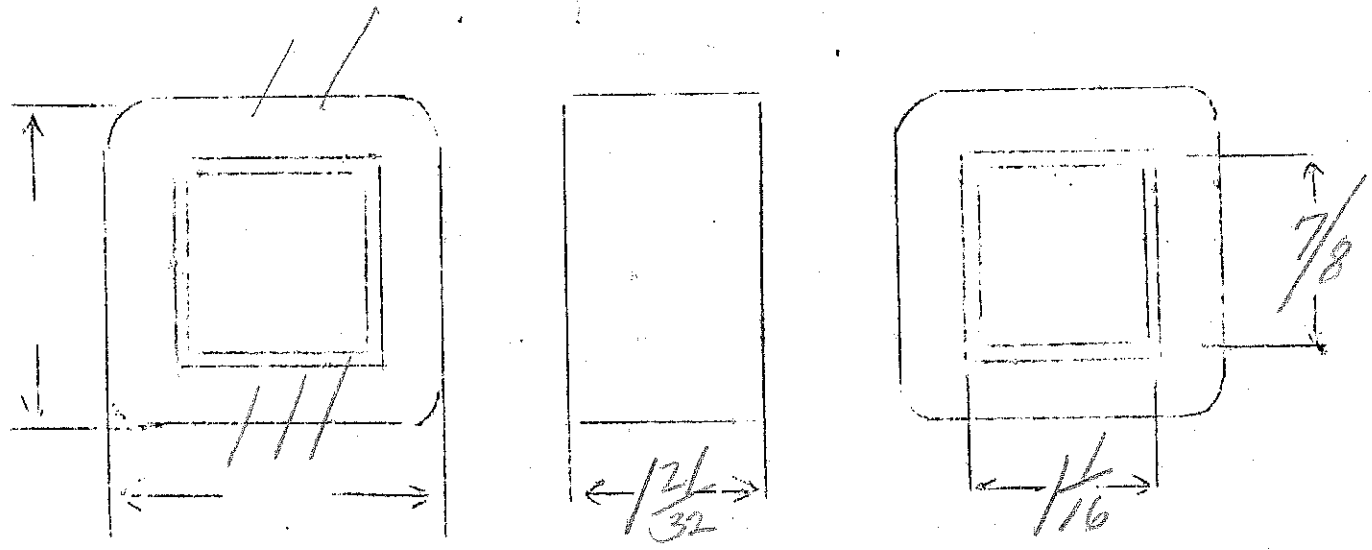
Pri - 0 - brown Sec - black blue ct
 1 - 110 - yellow 6.3 - green
 125 - green 5.0 - yellow

75 watt chime - intermittent rating
 P-115V
 S-24 volt

6.2

SPEC. NO. 2060

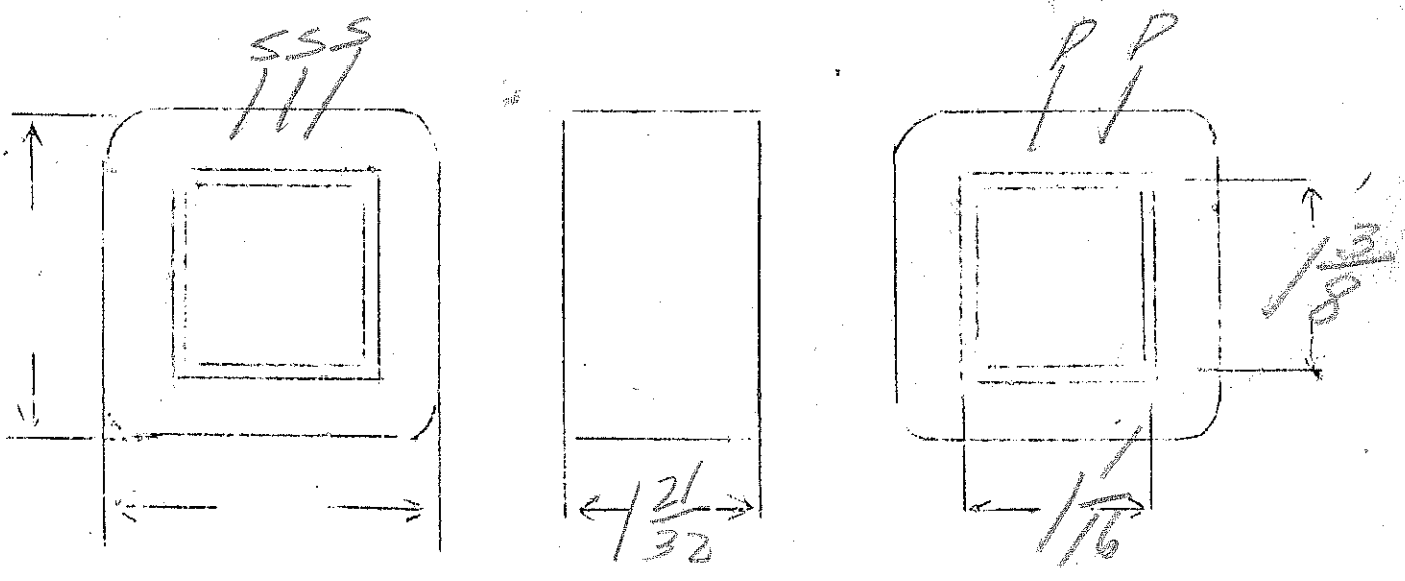
Winding	PRI	SEC				
Turns	714	170				
Taps	—					
Wind. Lgth.	$1\frac{5}{32}$	$1\frac{5}{32}$				
Wire Size	#25	#19				
T.P.L.	70-11	5L				
Kind Term.	#14 Rubber Covered					
Term. Lgth.	8"	8"				
Layer Insul.	40#	.007				
Wrapper	210056A	210156A				
TUBE	71007		IMPREGNATION		YARN/SW	
CURE	$1\frac{1}{16} \times \frac{7}{8}$					



Pri - 115
 Sec - 750VCT open circuit 95mA
 Fil₁ - 5V - 2amps
 Fil₂ - 2.5V - 7amps $N/E = 4$

SPEC. NO. 9061

Winding	SEC	SHIELD	PRI	F ₁	F ₂		
Turns	3000	170	455	23	11		
Taps	1500	—	—	—	6		
Wind. Lgth.	$\frac{15}{32}$	$\frac{15}{32}$	$\frac{15}{32}$				
Wire Size	#33	#33	#23	20	double #17		
T.P.L.	170-18	170	57-8				
Kind Term.	#20 Pbind	fil Br	#20 Pbind	WIRES	ONLY		
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	double 16#		40#				
Wrapper	1L007VC	1L007VC	2L0056A	2L0056A	2L0056A		
TUBE	7L007			IMPREGNATION	VARNISH		
CURE	$\frac{1}{16} \times \frac{3}{8}$						

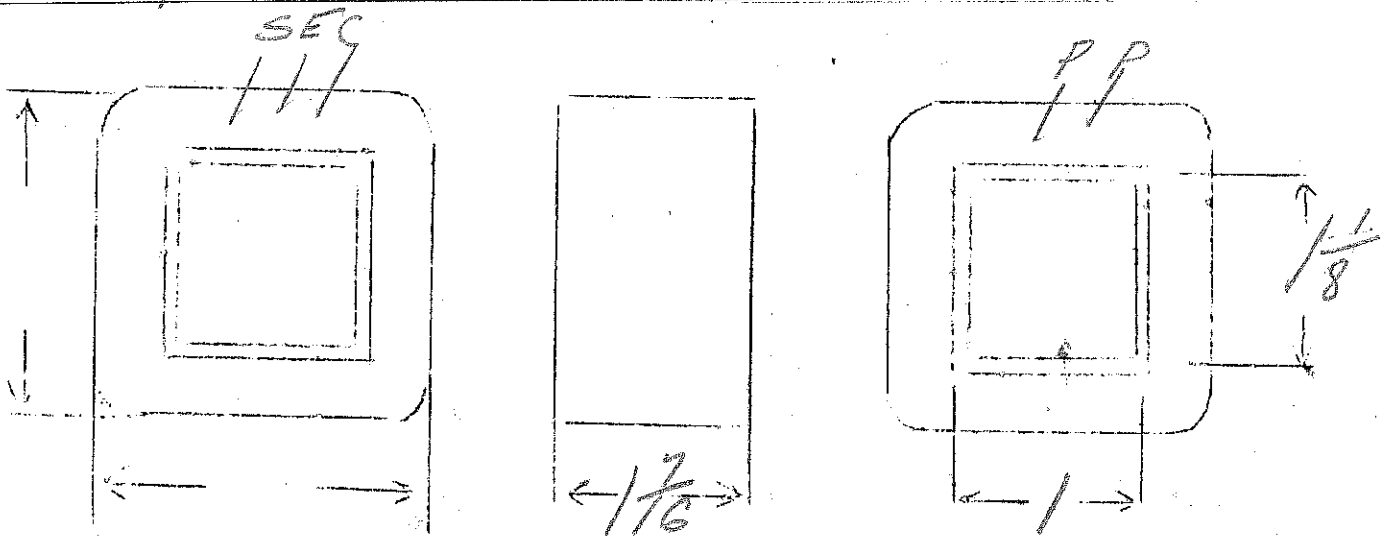


Ep - 120V
 Es - 680
 Ef1 - 5V - 2amps
 Ef2 - 6.3V - 2amps

48

SPEC. NO. 2062

Winding	SEC	SHIELD	PRI	F1	F2		
Turns	3300	66	565	28	34		
Taps	1650			-	-		
Wind. Lgth.	1.25	1.25	1.25	-	-		
Wire Size	#36	#26	#26	#21	#21		
T.P.L.	206-16	66-1	66-9				
Kind Term.	#20 Braid	W.O.	#20 P. Braid	WIRE	ONLY		
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	double 1/6"		40#				
Wrapper	12007VC	12009VC	21005GA	21005GA	21005GA		
TUBE	12007			IMPREGNATION	VARNISH		
CURE	1 X 1/2"						



30
 24

 64

Ep - 115 V.

Es - 400VCT. - 250MA

Ef - 5V - 3 amps

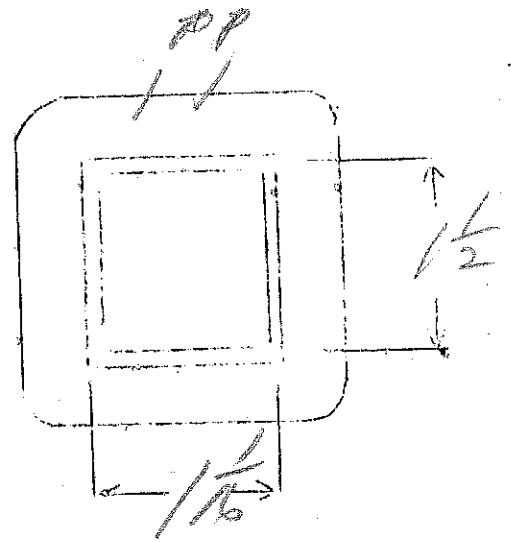
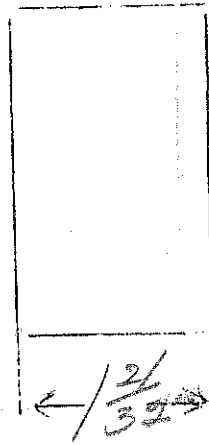
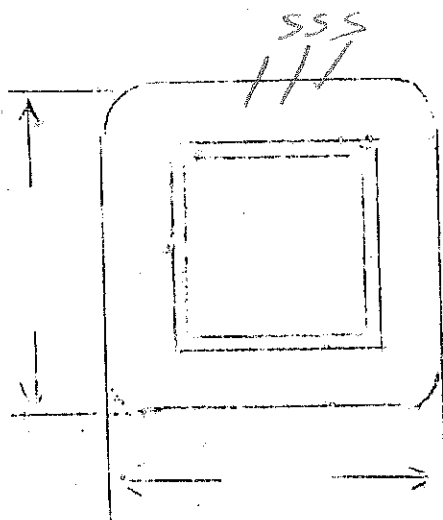
VA = 65

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

SPEC. NO.

2063

Winding	SEC	SHIELD	PRI	FL			
Turns	1600	100	415	20			
Taps	800	-	-	10			
Wind. Lgth.	$\frac{15}{32}$	$\frac{15}{32}$	$\frac{15}{32}$	-			
Wire Size	#28	#28	#24	#18			
T.P.L.	100-16	100-1	60-7				
Kind Term.	Br		silver	W.O.			
Term. Lgth.	3"	3	3"	3"			
Layer Insul.	30#		40#				
Wrapper	1L007VC	1L007VC	2L0056A	2L0056A			
TUBE	7L00-7				IMPREGNATION	VARNISH	
CURE	$\frac{1}{16} \times \frac{1}{2}$						



750 V.C.T. - 100 ma
 5 V.C.T. - 5 amps
 5 V.C.T. - 5 amps
 6.0 V.C.T. - 5 amps
 6.0 V.C.T. - 5 amps

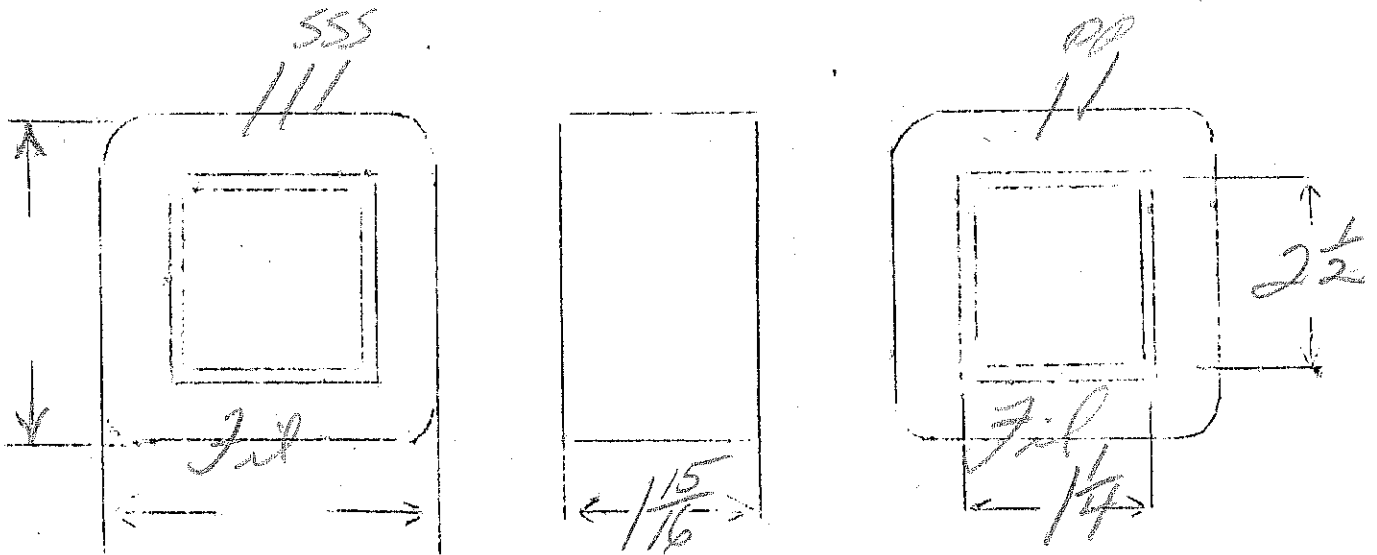
VA = 150

182

SPEC. NO.

2064

Winding	SEC	SHIELD	PR1	green F ₁	white F ₂	blue F ₃	red F ₄
Turns	1470	186	210	10	10	12	12
Taps	735			5	5	6	6
Wind. Lgth.	1.75	1.75	1.75	—	—	—	—
Wire Size	#32	#32	#20	#15	#15	#15	#15
T.P.L.	186-8	186	45-5				
Kind Term.	#20 PBR	silbr	#20 PBR	WIRE ONLY			
Term. Lgth.	9"	3"	9"	9"	9"	9"	9"
Layer Insul.	40#	—	double 30#	—	—	—	—
Wrapper	2L0070A 4 PBR	2L0070A	2L0070A	2L0070A			
TUBE	76007	IMPREGNATION				V.	
CURE	1 hr X 2 1/2						

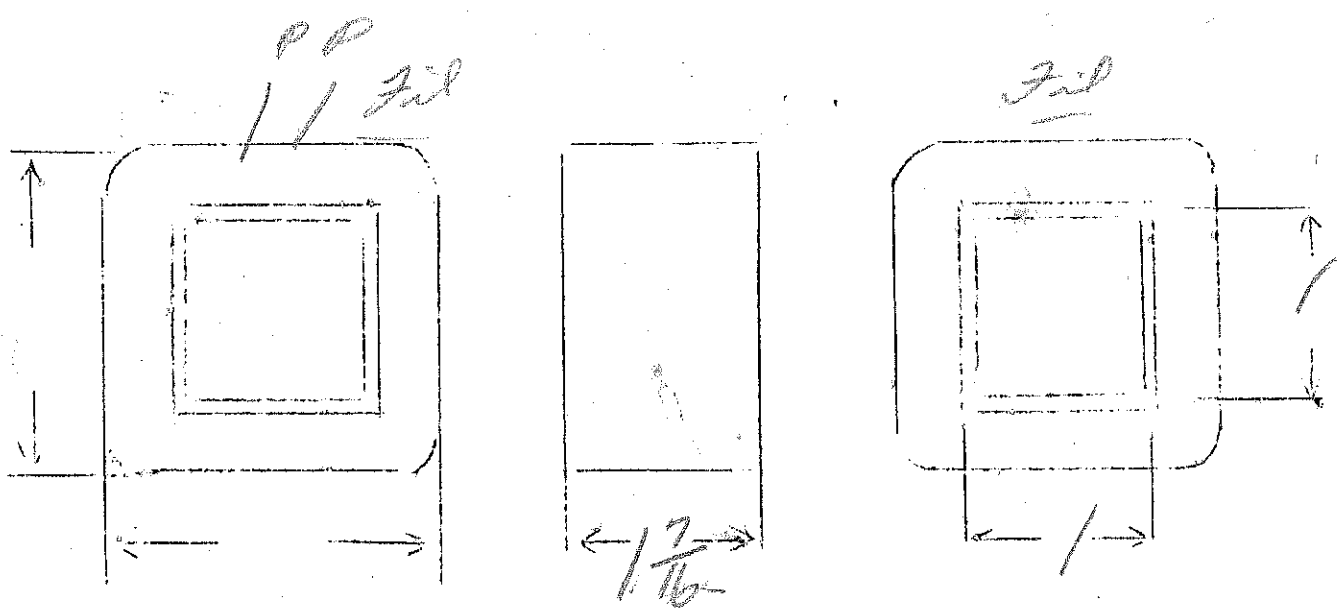


Ep - 115V
 Es - 6.5V - 2amps
 Es2 - 5V - 4amps

"A" netz 2500V. Ans.
 K

SPEC. NO. 2065

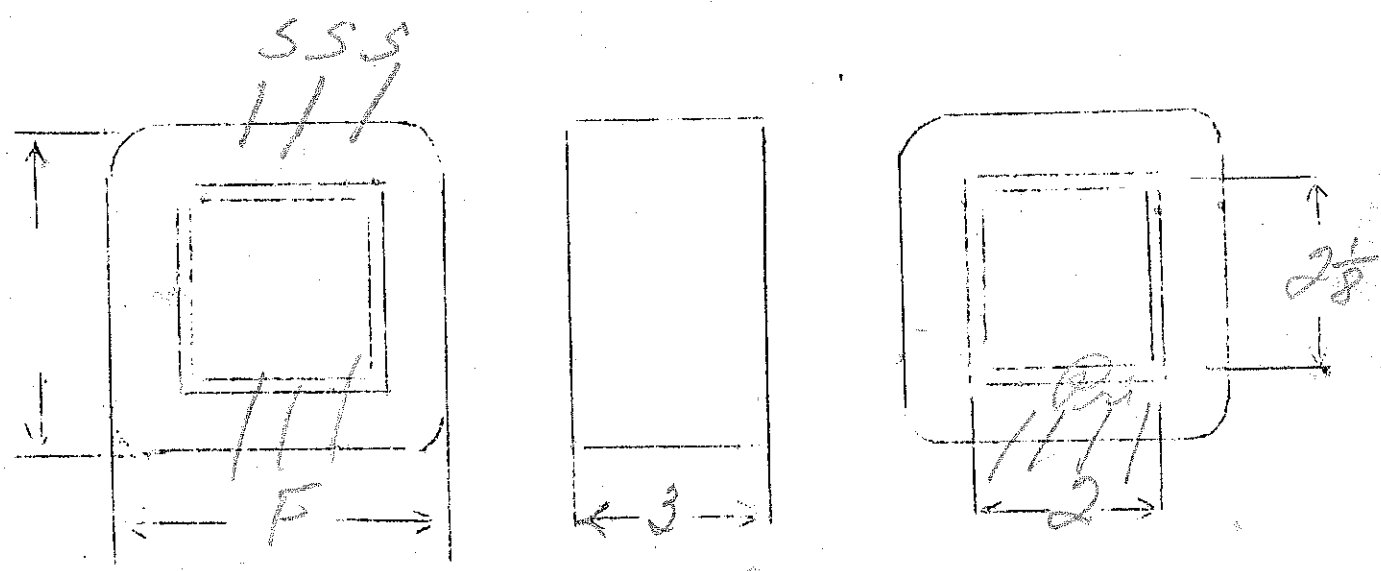
Winding	PRI	F ₁	F ₂				
Turns	640	41	32				
Taps	—	20	—				
Wind. Lgth.	1.25	—	—				
Wire Size	#26	#20	#17				
T.P.L.	65-10	—	—				
Kind Term.	#20 Varnish	WIPE	ONLY				
Term. Lgth.	9"	9"	9"				
Layer Insul.	40#	—	—				
Wrapper	310056A	310056A	310056A				
TUBE	72007	IMPREGNATION		Varnish			
CURE	1X1						



E_p - 105, 112, 120 V
 E_s - 2400V - 200 ma actual load
 E_f - 5V CT - 10 amp

SPEC. NO. 2066

Winding	SEC	PRI	FIL				
Turns	3700	171	8				
Taps	1850	160	4				
Wind. Lgth.	2 $\frac{3}{8}$	—	—				
Wire Size	# 27	# 13	# 11	3rd Ribbon	Black Para # 16 C.T.	6 in	etch finish
T.P.L.	144-26	6 Layers					
Kind Term.	# 27	WIRE	ONLY				
Term. Lgth.	12"	3"	3"		start lead by winders		
Layer Insul.	depth 40#	Kraft					
Wrapper	32007V 310056A	310056A	310056A				
TUBE	10L007+2L007V		IMPREGNATION	VARNISH			
CURE	2 x 2 $\frac{1}{8}$		short E -	Electric grade			



sec - leads
 Pri - lugs
 Fil - lugs

2660
 1330
 2.9

Ep - 115V
 Es - 4500 VCT - 400ma (2-HF200)

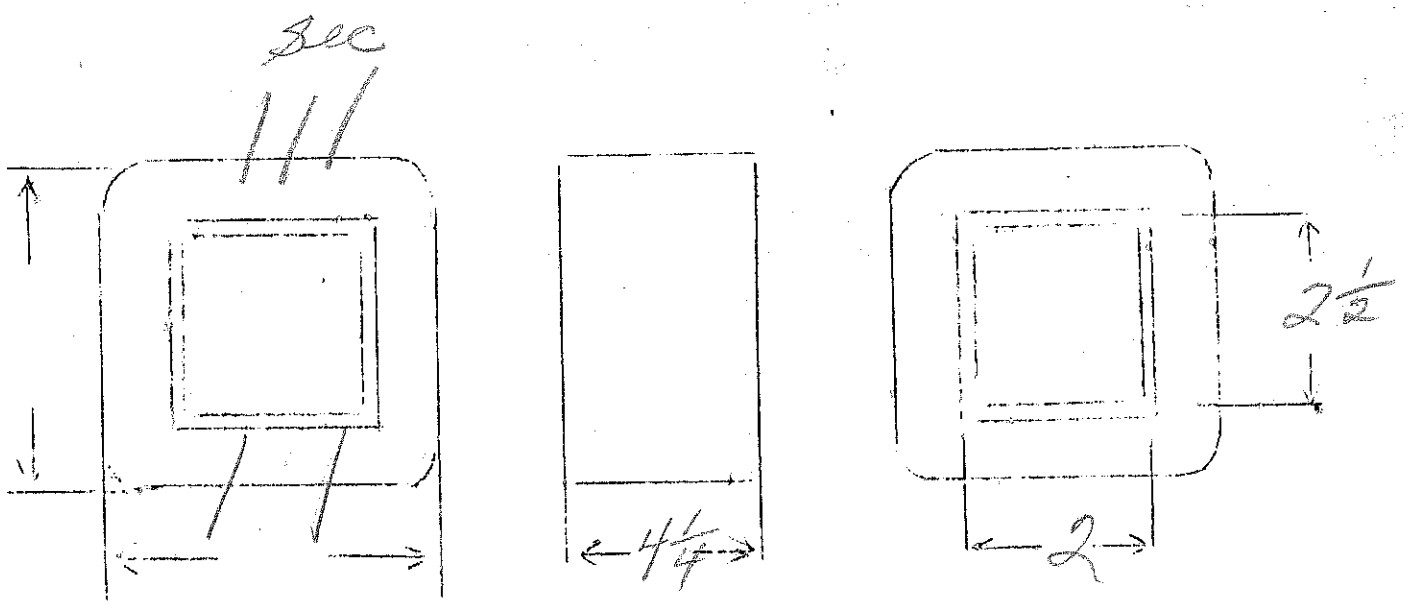
7500V Ins

117

SPEC. NO.

2067

Winding	SEC	PR1				
Turns	5700	135				
Taps	2850	—				
Wind. Lgth.	3 1/2"					
Wire Size	#26	#11	ground CT to case			
T.P.L.	180-32	4L				
Kind Term.		WIPE ONLY	12" #18 Rubber covered			
Term. Lgth.	4"	4"	inside lead placed at start of winding by winders			
Layer Insul.	double 40#	KRAFT	C.T. pull one turn wire only			
Wrapper	#1007VC 2L005GA	3L005EA				
TUBE	10L007+2L007VC		IMPREGNATION		VARNISH	
CURE	2 x 2 1/2					



Primary - to lugs

Ep- 105-112-120

EF1 - 5.25V - 6amps

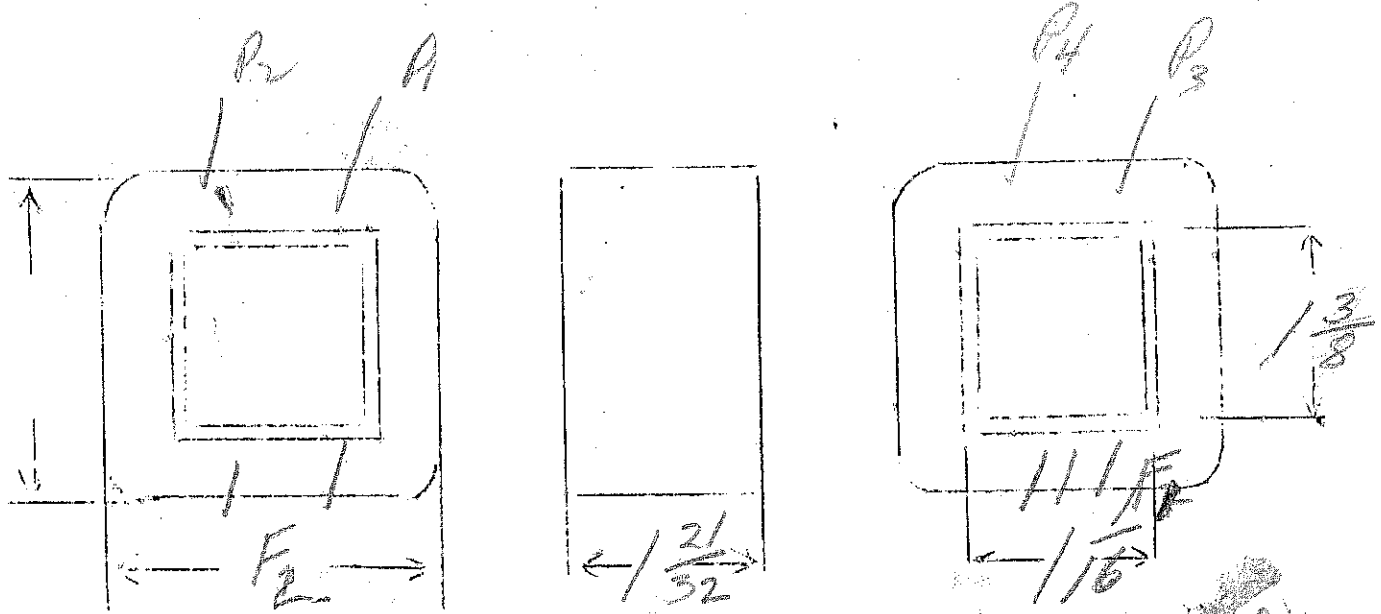
EF2 - 2.5V - 10amps - 7500V. In

SPEC. NO.

2068

4

Winding	PRI	FL #1	FL #2			
Turns	480	23	11			
Taps	450	12	5			
Wind. Lgth.	1 ¹⁵ / ₃₂	—	—	ground CT to case		
Wire Size	# 24	double #17	double 15			
T.P.L.	62-9	2L	2L			
Kind Term.	WIRE ONLY			assembly F with		
Term. Lgth.	3"	3"	3"	19" Rubber Cover #14		
Layer Insul.	40#	—	—			
Wrapper	2L005GA	2L007VC 3L005GA	2L007VC 3L005GA			
TUBE	7L007			IMPREGNATION	VARNISH	
CURE	1/16 x 1/8					



over

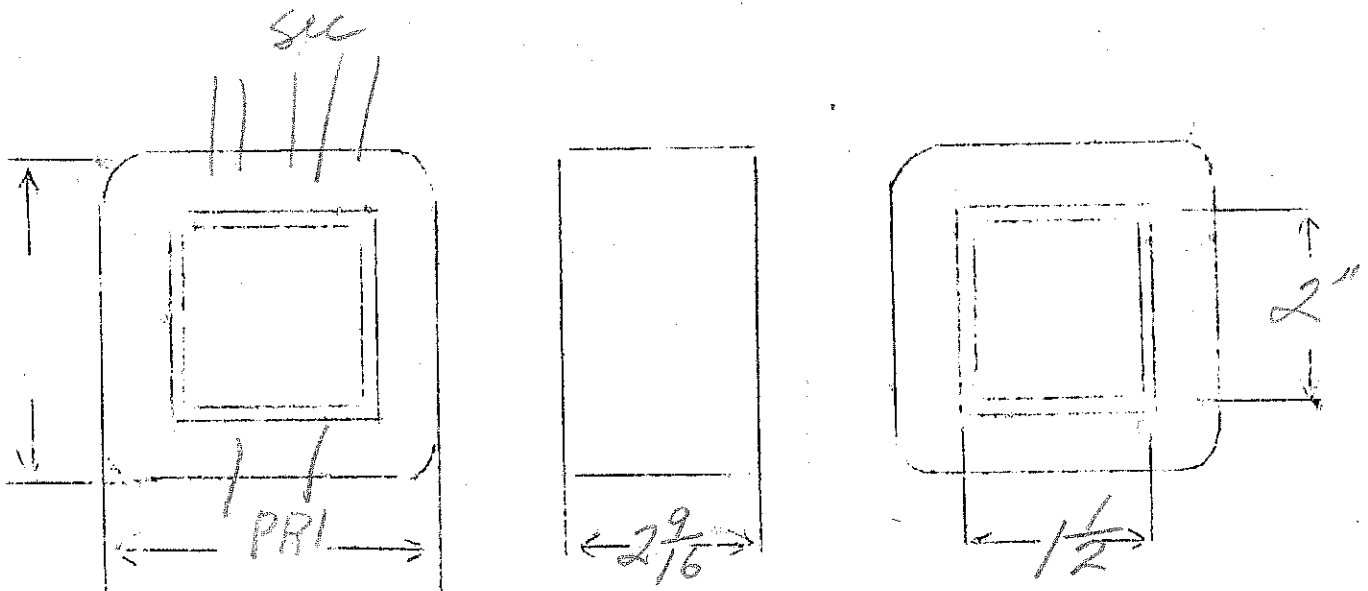
$E_p - 115V$

$E_s - 1000 \times 2000$ each side CT-100ma
 C.T. grounded to case after 5000V breakdown.

1.95

SPEC. NO. 2069

Winding	SEC	PRI				
Turns	8480 6360	225				
Taps	4240 2120				ground C.T. to case	
Wind. Lgth.	2"	2"				
Wire Size	#32	#18				
T.P.L.	212-40	6L				
Kind Term.	#20 PBW	WIRE ONLY	dummy	Placed by winders on sample only		
Term. Lgth.	6"	10"				
Layer Insul.	double 30#	Kraft				
Wrapper	31007VC 310056A	310056A				
TUBE	91007+ 21007VC		IMPREGNATION		VARNISH	
CURE	1 1/2 x 2					



sec to bakelite strip
 Primary leads

Ep - 110-120

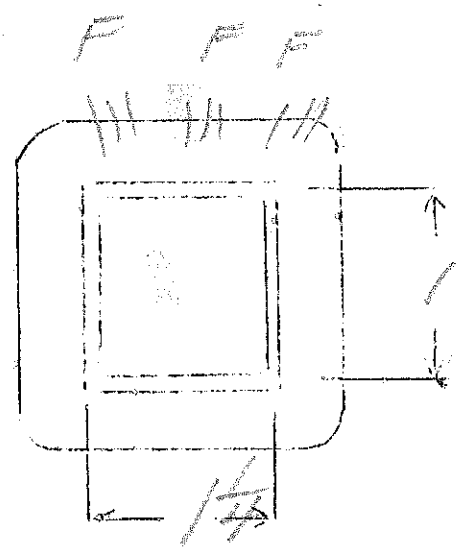
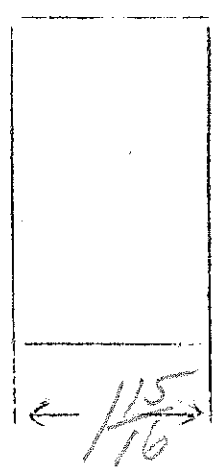
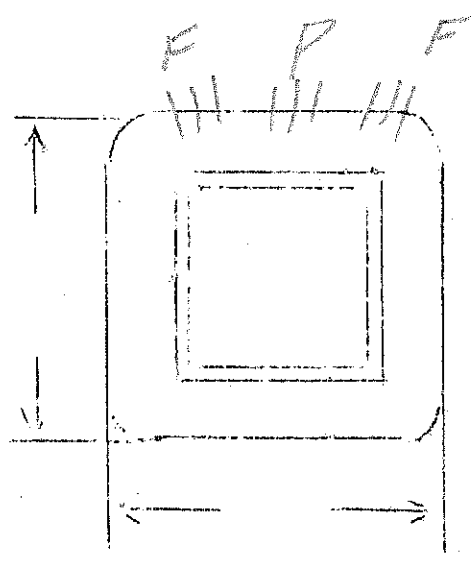
EF₁ - 6.3VCT - 3 amp

EF₂ - 7.5VCT - 3 amp

3 windings - 5VCT -

SPEC. NO. 2070

Winding	P	F ₁	F ₂	F ₃	F ₄	F ₅	
Turns	532	30	36	24	24	24	
Taps	488	15	18	12	12	12	
Wind. Lgth.	1.75	—	—	—	—	—	
Wire Size	22	18	18	18	18	18	
T.P.L.							
Kind Term.		WIRES ONLY					→
Term. Lgth.	3"	—					→
Layer Insul.	50#	—					
Wrapper	20070A	20070A throughout				20070A	
TUBE	7L007					IMPREGNATION	
CURE	1 1/4 x 1						

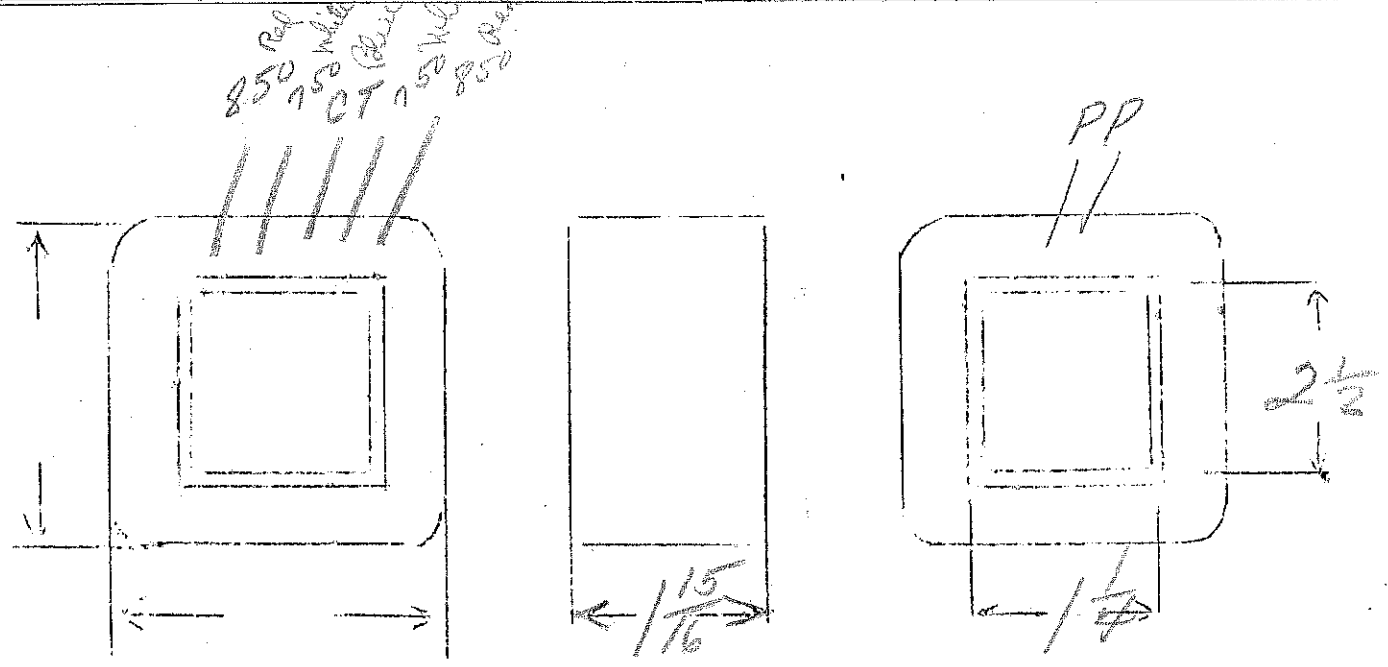


Ep - 115
 Es - 850-750 CT - 200M4
 Ef1 - 5V - 3 amp
 Ef2 - 2.5V - 7 amp
 Ef3 - 6.3V - 6 amp

105H
 182

SPEC. NO. 2071

Winding	SEC	SHIELD	PRI	F1	F2	F3
Turns	1680 1580	132	210	10	5	13
Taps	840 100		—	—	3	6
Wind. Lgth.	1.75	1.75	1.75	—	—	—
Wire Size	#29	#29	#19	#18	#14	#14
T.P.L.	132			1 layer		
Kind Term.	#20 PBR	NO.	#10 PBR	WIRE ONLY		
Term. Lgth.	9	3	9	9	9	9
Layer Insul.	double 30#		50#	—	—	—
Wrapper	22007VC	22007VC	22007GA			22007GA
TUBE	72007 + 12007VC			IMPREGNATION		VARNISH
CURE	1 1/4 x 2 1/2					



To deliver 2500 or 1800V ac at 400 ma -
 Conservative Rel.

Primary 115-230

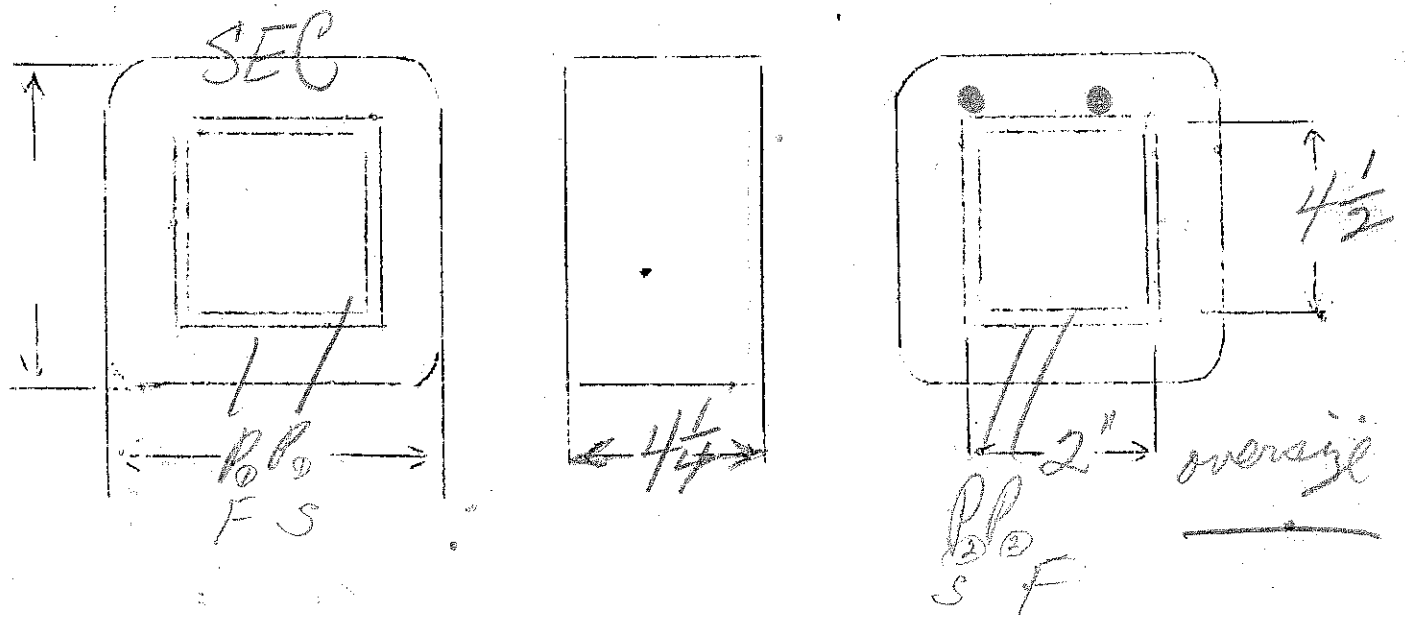
N/E 695

Secondary 2800V or 2050V encl. etc.

SPEC. NO. 2072

Winding	SEC		PRI @	PRI @		
Turns	4200		80	80		
Taps	3600-2100-600		—	—		
Wind. Lgth.	35		—	—		
Wire Size	#24		#12	#12		
T.P.L.	151-28		2L	2L		
Kind Term.	WIRE ONLY					
Term. Lgth.	6"		6"	6"		
Layer Insul.	double 40#		007 Kraft			
Wrapper	4L010VC 3L0056A			3L0056A		
TUBE	10L007 + 2L010VC			IMPREGNATION		VARNISH
CURE	2 x 4 1/2					

start sec leads with #20 PBR



Ry 2121
 Heavy-

Ep-115

EF₁ - 5V CT - 3amps

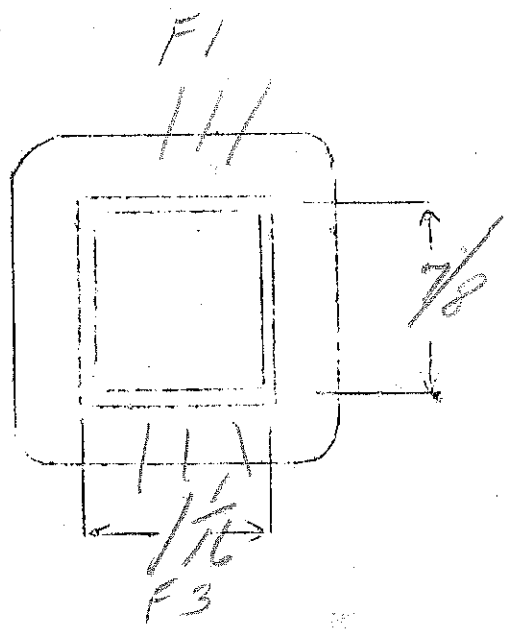
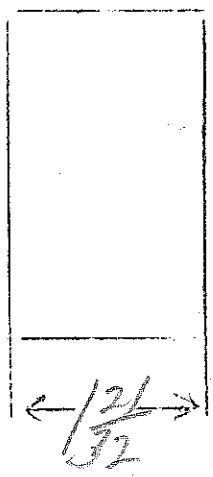
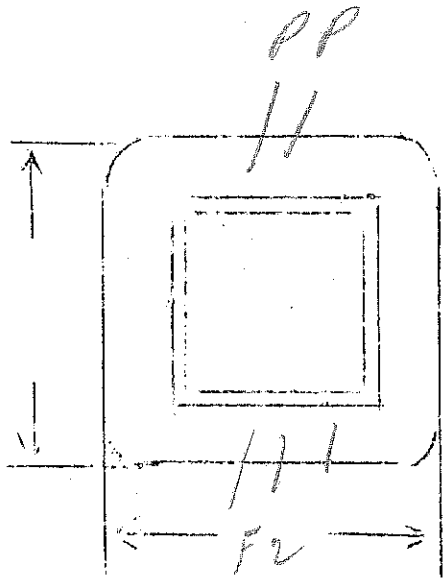
2500V. Ins

EF₂ - 2.5V CT - 12amps

EF₃ - 2.5V CT - 4.5amps

SPEC. NO. 2073

Winding	PK1	F ₁	F ₂	F ₃			
Turns	690	34	17	17			
Taps	—	17	8	8			
Wind. Lgth.	$\frac{15}{32}$	—	—	—			
Wire Size	#25	#18	#12	#16			
T.P.L.	70-10						
Kind Term.	WIPE ONLY						
Term. Lgth.	3"	3"	3"	3"			
Layer Insul.	40#	—	—	—			
Wrapper	2L0056A	2L0056A	2L0056A	2L0056A			
TUBE	7007				IMPREGNATION	Varnish	
CURE	16x 7/8						

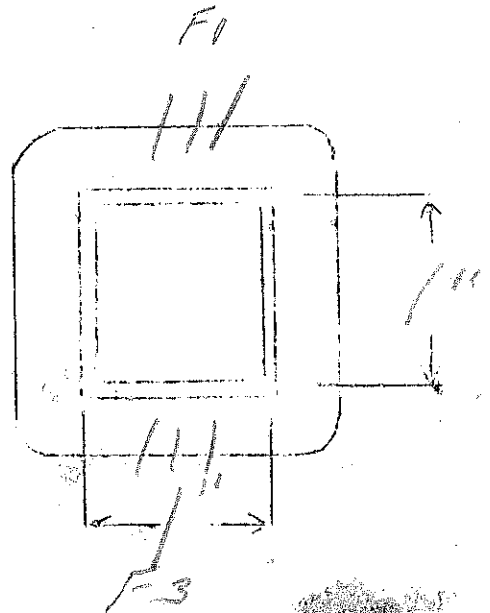
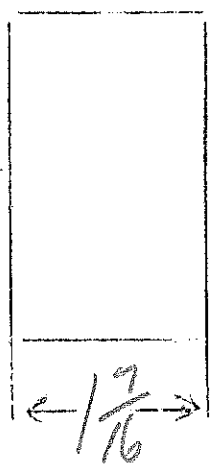
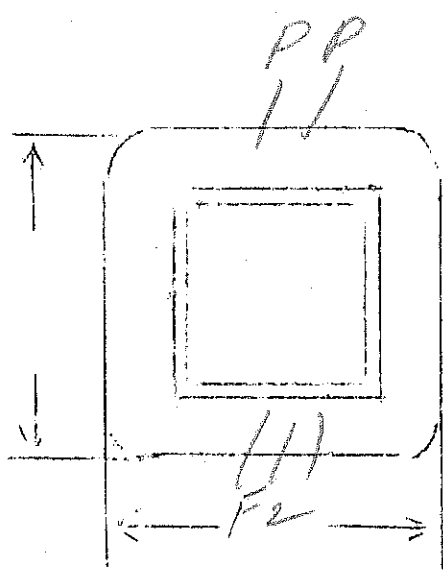


Ep - 115V
 Ef1 - 5V.C.T. - 3amp
 Ef2 - 4.5 V.C.T. - 2.5amp
 Ef3 - 2.5 V.C.T. - 2.5amp

2500V Ins
 VA = 40

SPEC. NO. 2074

Winding	P	F1	F2 ³⁵	F3 ¹⁹		
Turns	640	32	48	16		
Taps	—	16	24	8		
Wind. Lgth.	1.25					
Wire Size	#27	#18	#18	#18		
T.P.L.	72-9					
Kind Term.		WIRE ONLY				
Term. Lgth.	3"	3"	3"	3"		
Layer Insul.	40#	—	—	—		
Wrapper	210056A	210056A		210056A		
TUBE	7L007	IMPREGNATION			Varimok	
CURE	1X1					

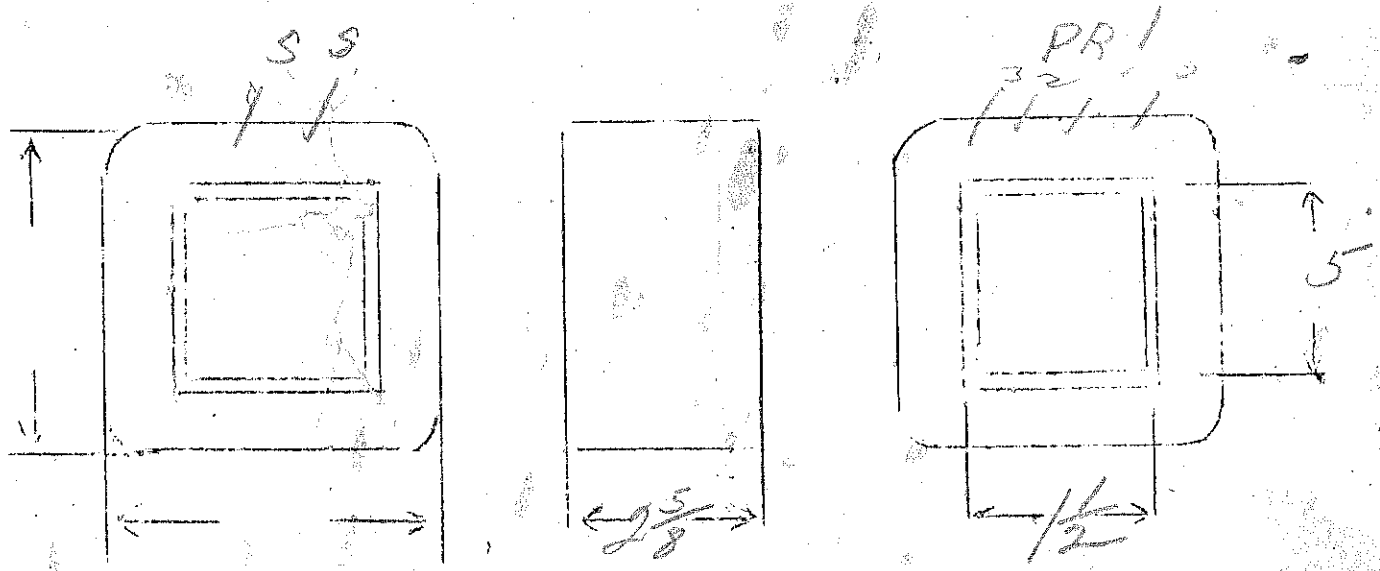


Ep - 105-115-125
 Es - 1250V - 300Ma

138

SPEC. NO. 2075-25N

Winding	SEC	PR1				
Turns	1920	173				
Taps	—	159				
Wind. Lgth.	$2\frac{3}{8}$	146				
Wire Size	#26	#14				
T.P.L.	128-15	6L				
Kind Term.	WIRE ONLY					
Term. Lgth.	3"	3"				
Layer Insul.	double 40#	007				
Wrapper	2L007V 2L005GA	3L005GA				
TUBE	9L007 + 11007V		IMPREGNATION	VARNISH		
CURE	1 1/2 x 5					



c mtg - sheet metal shell on back

$E_p - 115V - 50W$

$E_s - 1250V - 300W/a$ $\frac{W}{E} - 1.31$

SPEC. NO. 2073

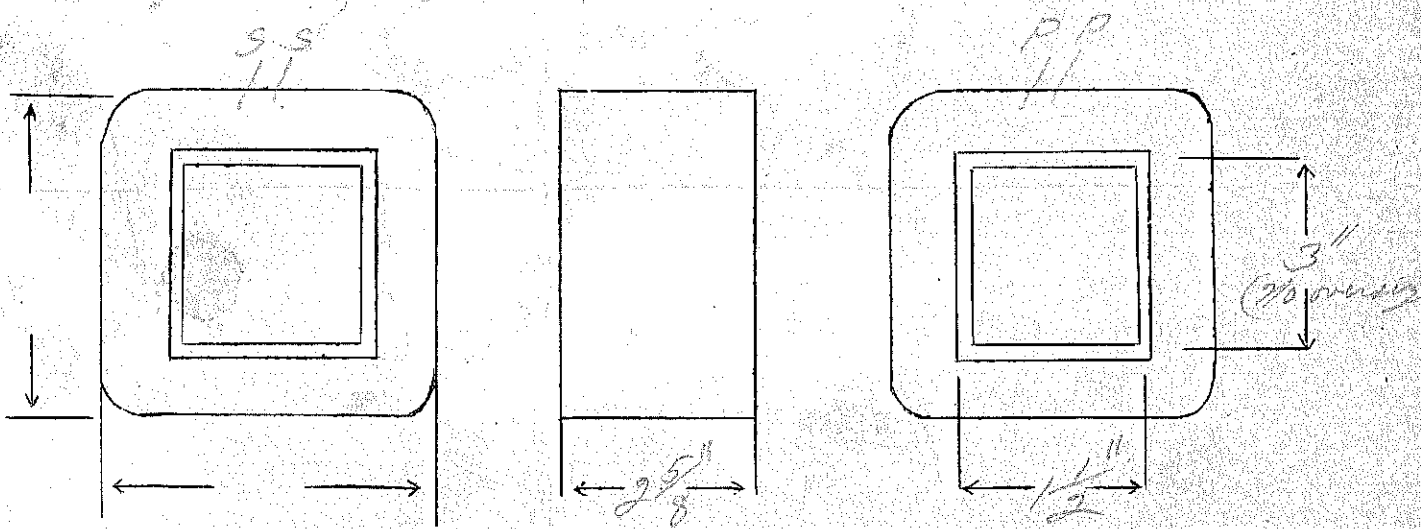
Winding	Sec.	Pri.	Block			
Turns	1750	153				
Taps	—	—				
Wind. Lgth.	2 ³ / ₈	2 ³ / ₈				
Wire Size	#26	#14				
T.P.L.	126-14	5L				
Kind Term.	Wire only					
Term. Lgth.	3"	12"				
Layer Insul.	double 40#	007 Kraft				
Test Volt.	5000	2500				
Wrapper	2L007VC 2L005GA	3L005GA				

Ground start - use 15"
#14 motor lead for
outside lead
sheaving

TUBE	9L007+1L007VC	IMPREGNATION	Varnish
CORE	1 1/2 x 3	PRIMARY V.A.	

MOUNTING

"S" mty. with leads out lower side of case
ground start of secondary - Black case

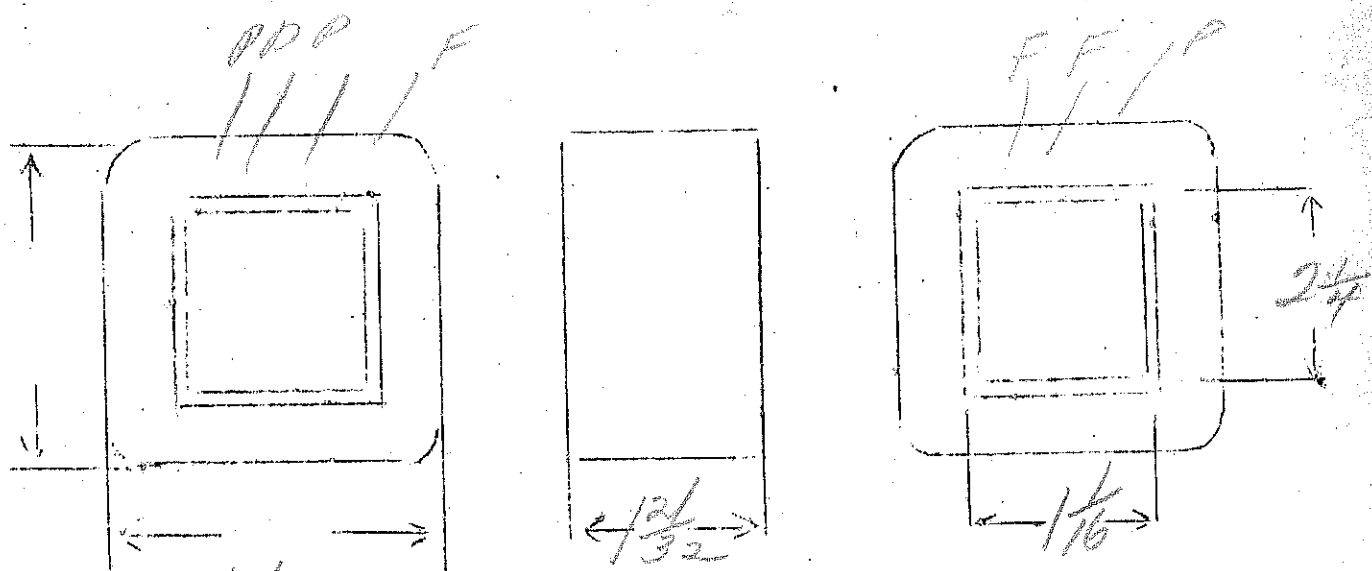


Ep - 105-115-125
 Es - 10V.C.T. - Jump - CT grounded

423

SPEC. NO. 2076-25a

	white						
Winding	PRI	SEC					
Turns	530 487	48					
Taps	445	24					
Wind. Lgth.	1 15/32	1 15/32					
Wire Size	#23	#14	Silicon Brand				
T.P.L.	56-10	3L	CT				
Kind Term.	#20 P.B.	WIRE ONLY	Sleeving				
Term. Lgth.	9"	9"					
Layer Insul.	40#	007					
Wrapper	2L0058A	2L0058A					
TUBE	7L007		IMPREGNATION		VARNISH		
CURE	1 1/16 x 2 1/4						

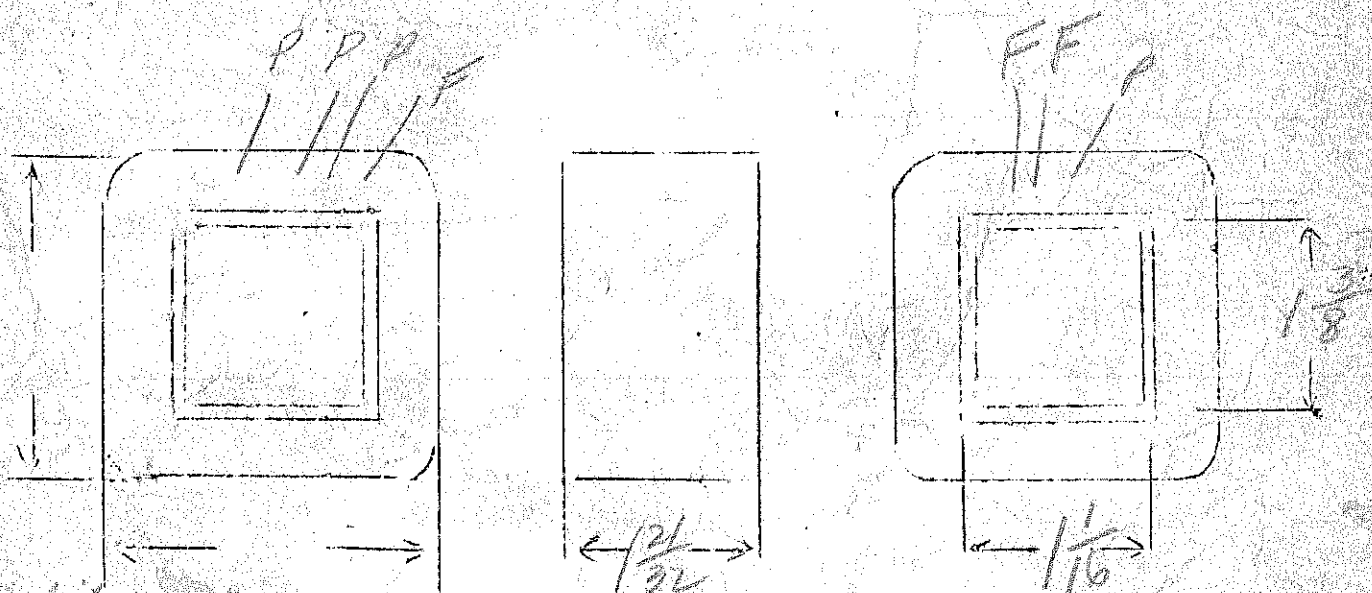


start white
 105 - black
 115 - brown
 125 - yellow

Ep - 105-115-125
 Es - 10VC.T. - 7amps - C.T. grounded

SPEC. NO. 2076-A

Winding	PRI	SEC				
Turns	500	45				
Taps	460 420	22 - sil braid				
Wind. Lgth.	1 ¹⁵ / ₃₂	1 ¹⁵ / ₃₂				
Wire Size	#23	#14				
T.P.L	56-10	3L				
Kind Term.	#20 P Braid	WHITE ONLY				
Term. Lgth.	9"	9"				
Layer Insul.	40#	007				
Wrapper	2L0056A	2L0056A				
TUBE	7L007		IMPREGNATION		VARNISH	
CURE	1 ¹ / ₁₆ x 1 ³ / ₈					



test white.
 105 black
 115 brown
 125 yellow

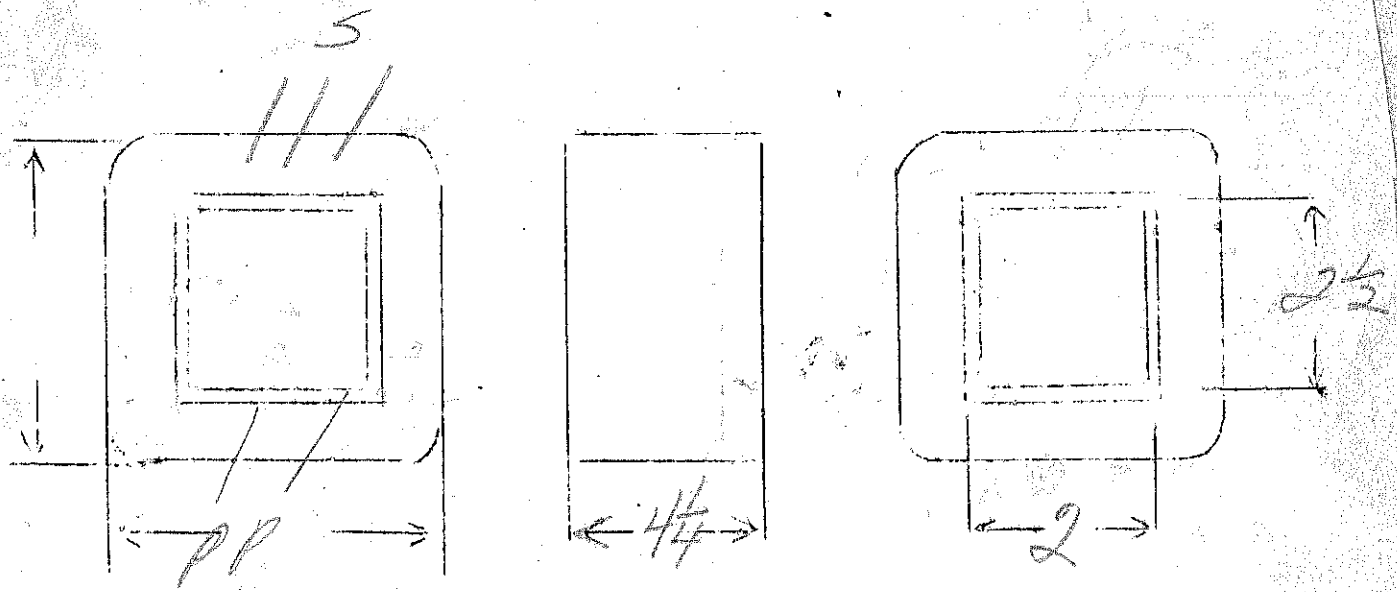
E₃ - 4000 V.C.T. - 400ma - 6 mty

Exp 115 Volts

1175

SPEC. NO. 2077

Winding	SEC	PRI				
Turns	3200	135				
Taps	2600		ground C.T. inside case			
Wind. Lgth.	3 1/2"					
Wire Size	#26	#11				
T.P.L.	187-28	4L				
Kind Term.	wo.	WIRE ONLY	12"	#14 Rubber	Conduct lead	
Term. Lgth.	4"	4"			more	
Layer Insul.	double 40%	KRAFT	Start put in by Winders			
Wrapper	PL1005GA	3L1005GA				
TUBE	10L007H	2100VC	IMPREGNATION	VARNISH		
CURE	2 x 2 1/2					

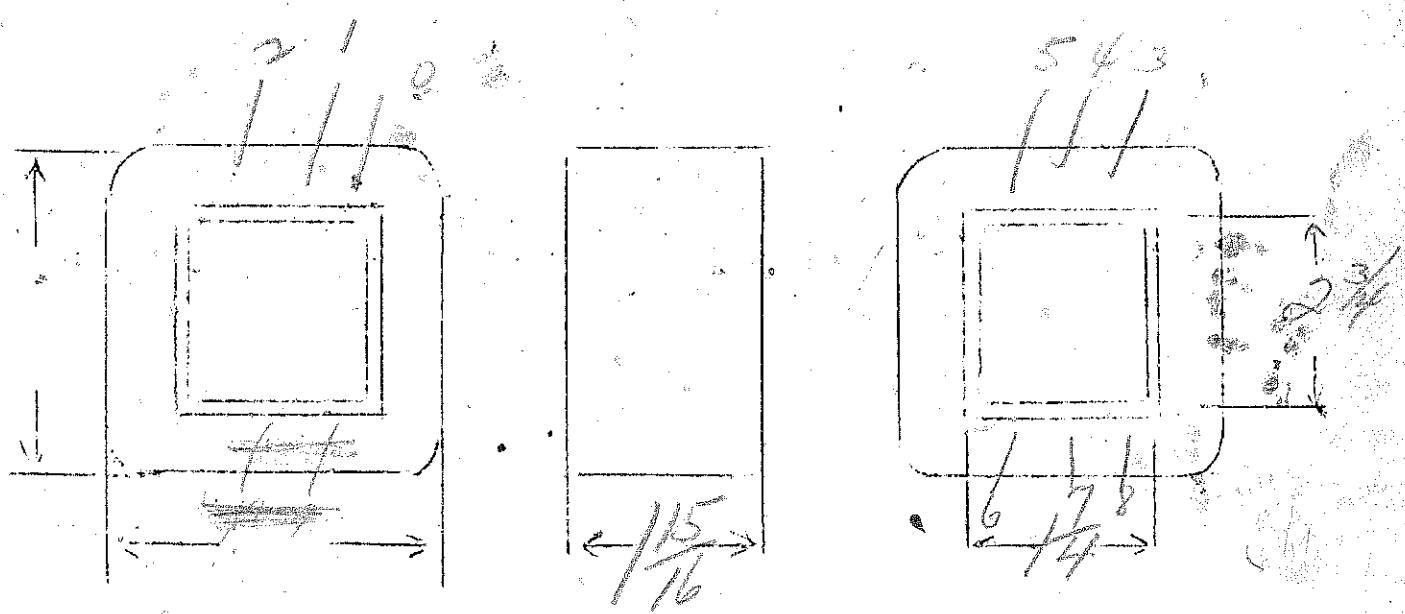


Auto transformer, tapped at 95, 100, 105, 110, 115, 120, 125, 130

Capacity - 12amps
160

SPEC. NO. 2078

Winding	Continuous					
Turns	160	60				
Taps	-	51-	42	-34-	25-	17-8
Wind. Lgth.	1.75	1.75				
Wire Size	#18	#11				
T.P.L.		3.4				
Kind Term.	WIRES ONLY					
Term. Lgth.	4"	4"				
Layer Insul.	007 Kraft					
Wrapper	200769					
TUBE	72007		IMPREGNATION		VARNISH	
CURE	1 1/4 x 2 3/4					

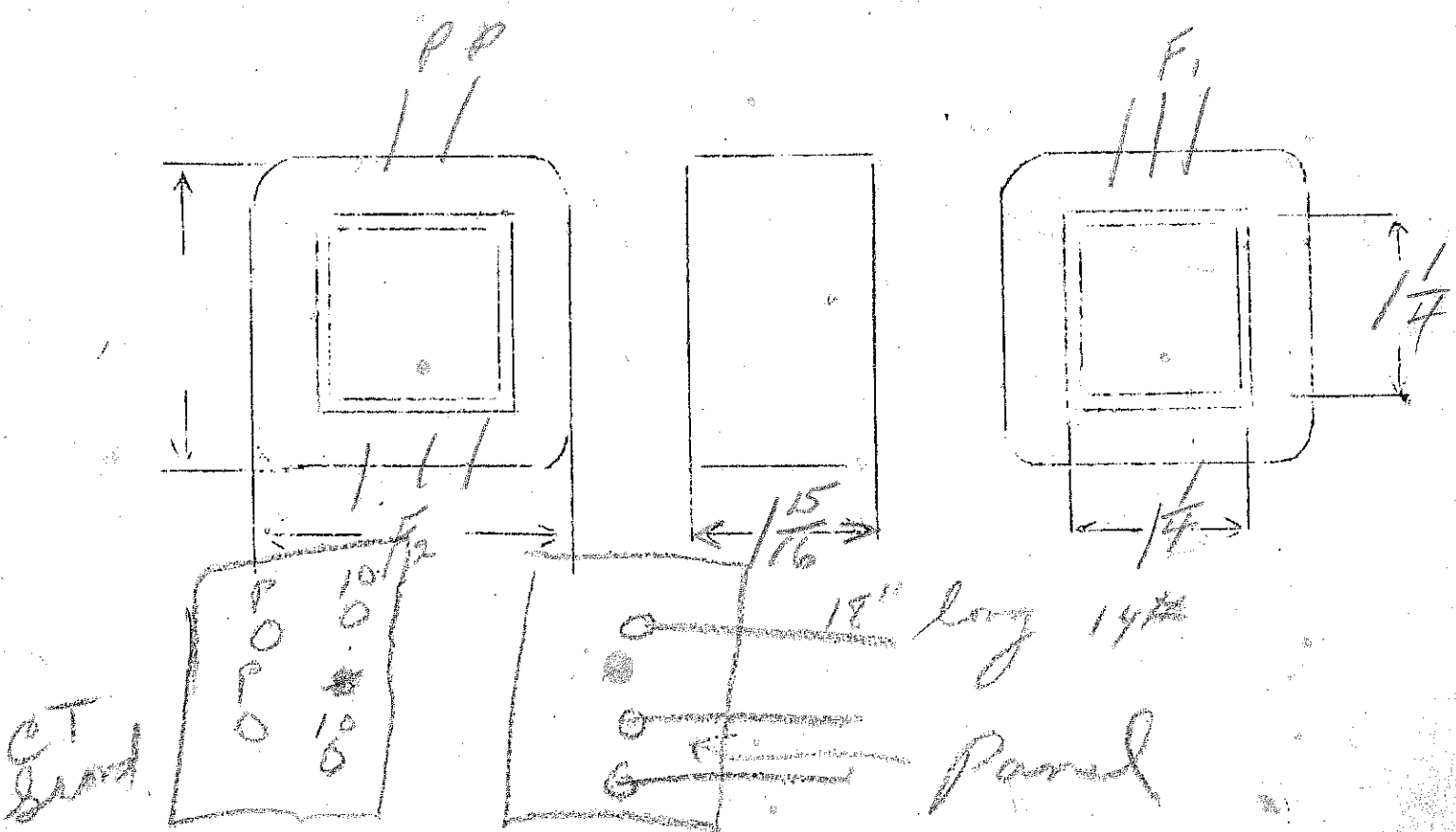


Ep - 115
 EF₂ - 25V - 10 amps - 7500V. Inc
 EF₁ - 10V.C.T. - 8amps

365 SPEC. NO. 2079

Winding	PRI	F ₁	F ₂				
Turns	420	40	10				
Taps	—	20	5				
Wind. Lgth.	1.75	—	—				
Wire Size	#21	#13	#12				
T.P.L.	53	—	—				
Kind Term.	W.O.	WIRE ONLY					
Term. Lgth.	3"	3"	3"				
Layer Insul.	40#						
Wrapper	2L0076A	3L0076A	3L0076A				
TUBE	7L007	IMPREGNATION					V.
CURE	1 1/4 x 1 1/4						

In assembly use 18" #14
 meter lead wire thru
 hole in end panel



Ep-110-120-130

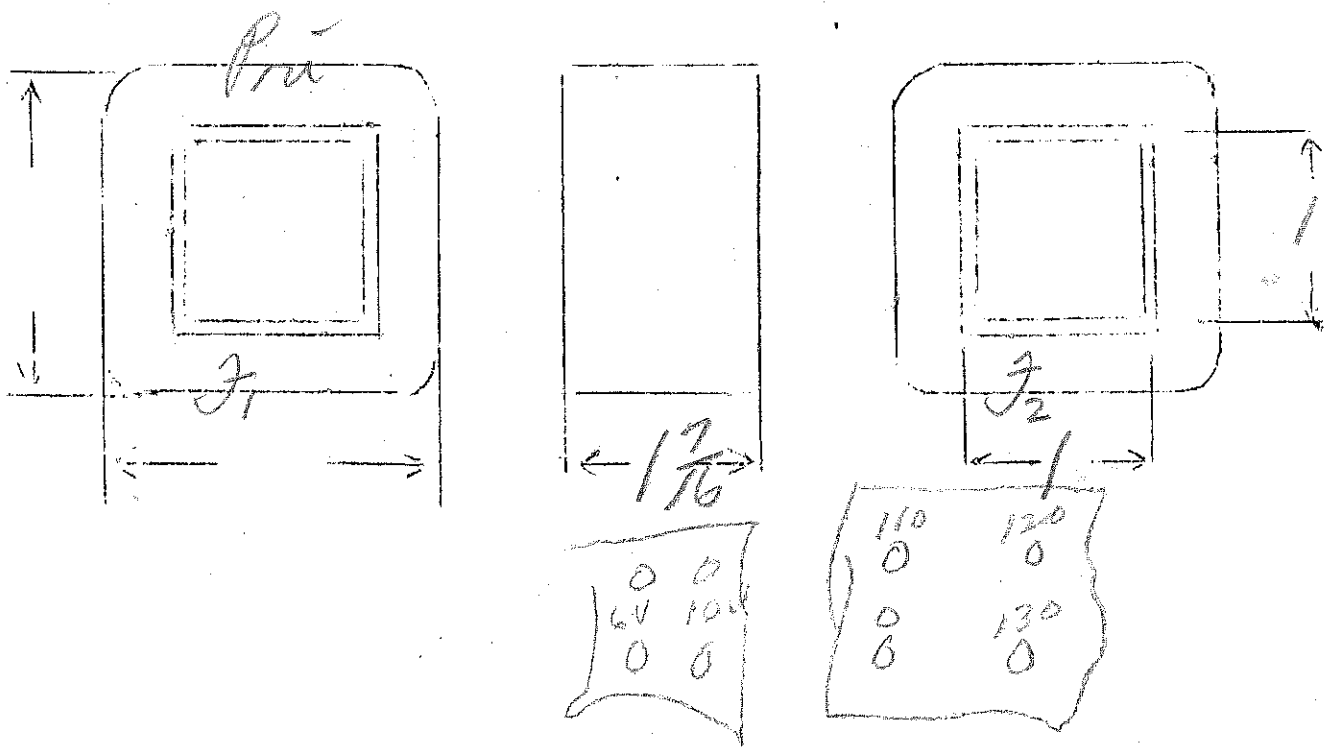
5.7

Ep-10V-.64amps

Ep-.6amps-6.3Volts

SPEC. NO. 2080

Winding	PRI	SHIELD	F1	SHIELD	F2		
Turns	740	1	62	1	39		
Taps	685						
	628						
Wind. Lgth.	1.25						
Wire Size	27	Copper	22	Copper	22		
T.P.L.	75	Shield		Shield			
Kind Term.	W.O.	Sil Bz	W.O.	Sil Bz	W.O.		
Term. Lgth.	3"	3"	3"	3"	3"		
Layer Insul.	40#						
Wrapper	2 W56A						
TUBE	2007	IMPREGNATION			VARNISH		
CURE	1X/NW						

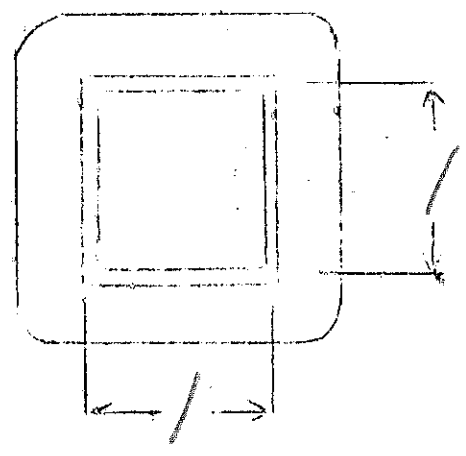
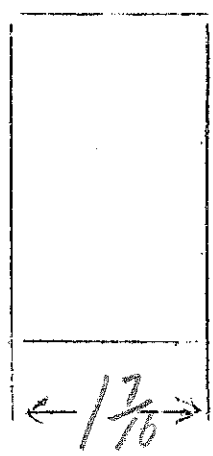
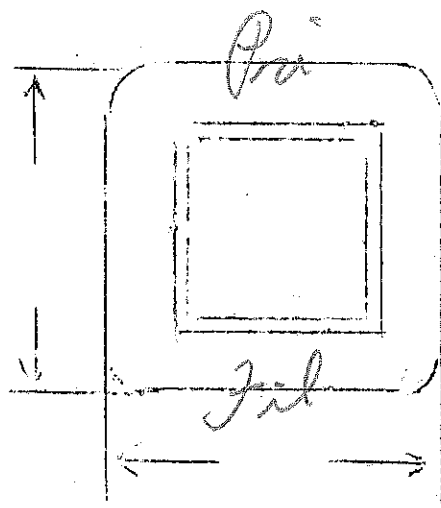


Ep - 110-120/30

Es - 10V - 3.3 amperes 5.7

SPEC. NO. 2081

Winding	PRI	SHIELD	SEC				
Turns	740	1	64				
Taps	685 678		32				
Wind. Lgth.	1.25	1.25	1.25				
Wire Size	#27	Copper	#17				
T.P.L.	75	Shin					
Kind Term.	W.O	sil B1	W.O				
Term. Lgth.	3"	3"	3"				
Layer Insul.	40#	-	-				
Wrapper	2L056A	2L056A	2L056A				
TUBE	7607			IMPREGNATION	VARNISH		
CURE	1 / X / NW						



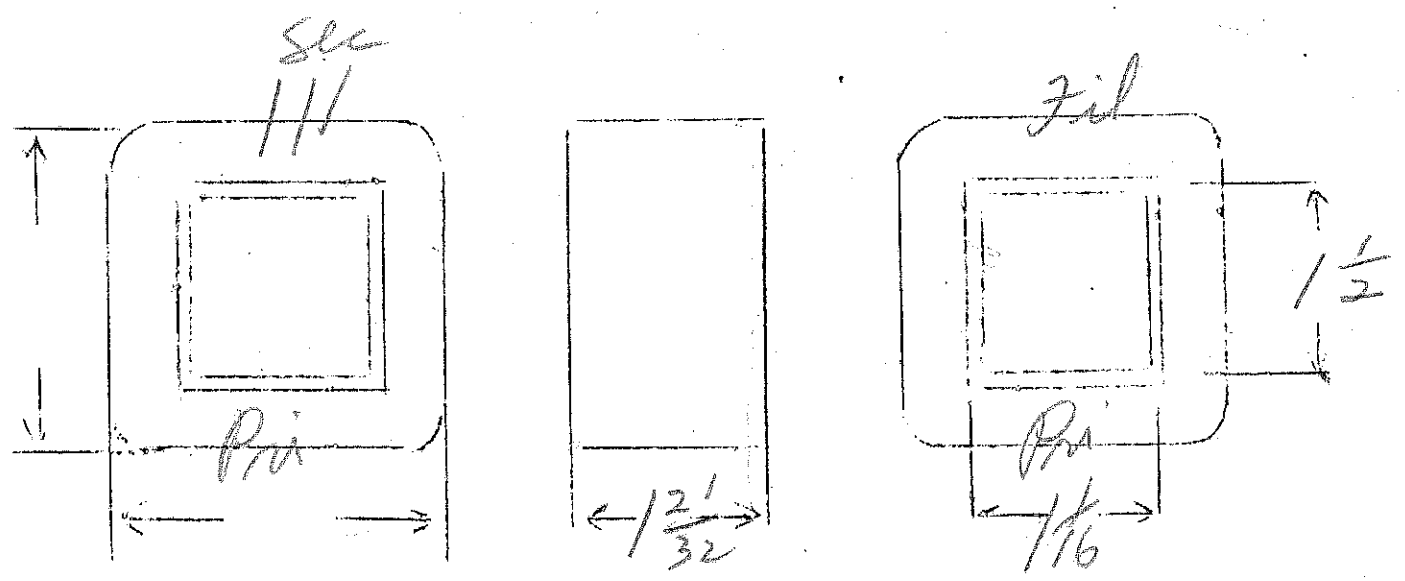
Ep - 110-120-130
 Es - 800V.C.T. - 125MA
 Ef - 5V.C.T. - 2amp

10
 50
 60

36

SPEC. NO. 2082

Winding	SEC	SHIELD	PRI	FIL			
Turns	3160	140	468	20			
Taps	1580	—	432 396	10			
Wind. Lgth.	$1\frac{15}{32}$	—	$1\frac{15}{32}$				
Wire Size	#31	#31	#24	20			
T.P.L.	144-22		66				
Kind Term.	oil Brnd		WIRE ONLY				
Term. Lgth.	3"	3"	3"	3"			
Layer Insul.	double 16#		40#				
Wrapper	1007VC	1007VC	20056A	20056A			
TURE	74007				IMPREGNATION	Varnish	
CURE	$1\frac{1}{16} \times 1\frac{1}{2}$						



SEC - 7.5 ma capacity - 45000 volt

PRI - 115 V - 100 watt

Pri + Sec in two sections

1.55

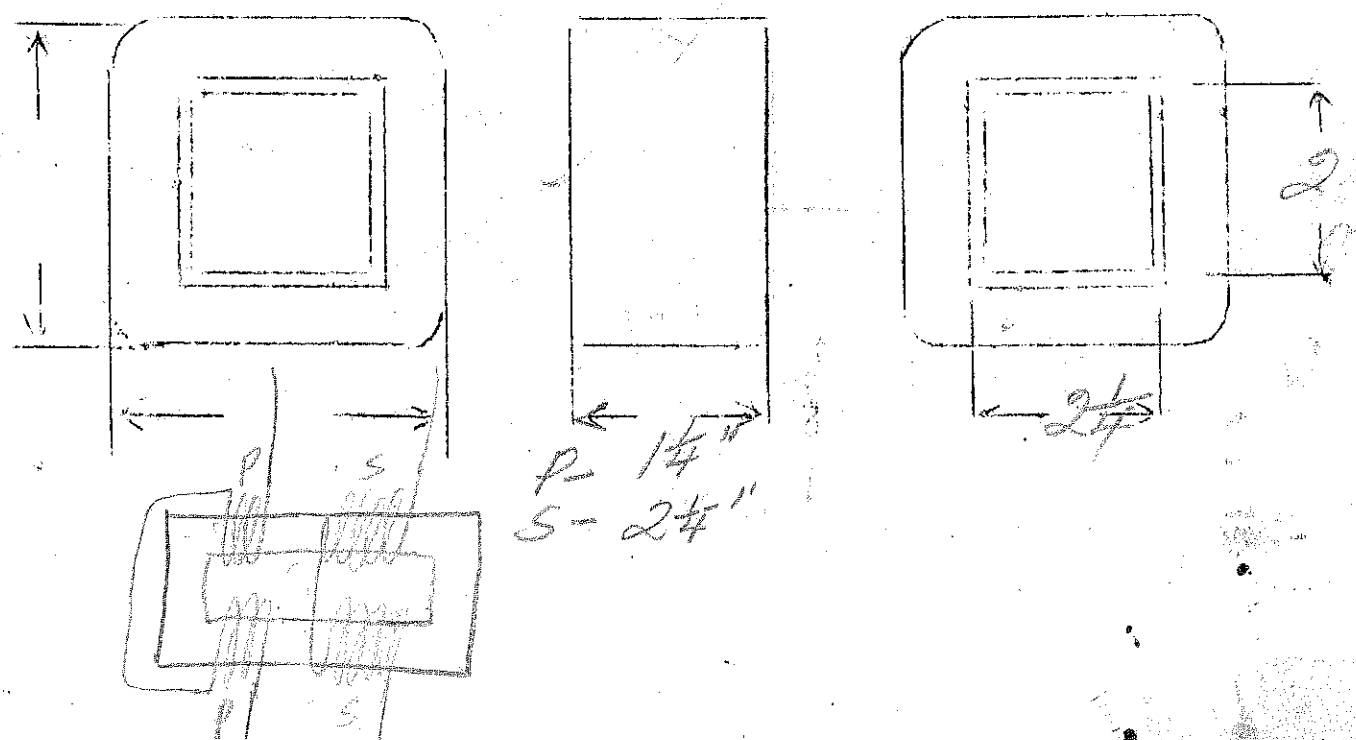
SPEC. NO. 2083

Winding	PRI	SEC				
Turns	102	37300				
Taps	-					
Wind. Lgth.	1"	1 5/8"				
Wire Size	#19	#40				
T.P.L.	21-5	415-90				
Kind Term.	W.O.	sil Br.				
Term. Lgth.	9"	9"				
Layer Insul.	.007	double 16# 4000 TVC				
Wrapper	2100.56M	2100.56M				

TUBE | 10L 007 + 4000 TVC on Sec | IMPREGNATION | WAX

CURE | 24 step lamination

Sec + Pri separate - 2 coils each for series connection



Furnace
 "S" mag

Ep-115
 Es-24 volt - 75 watt Intermittent
 3.12 Amp stamp case 75 VA INT.

Kadis - Television Supply
 Signal Elec Supply

48 VA Cont. Rating

465

SPEC. NO.

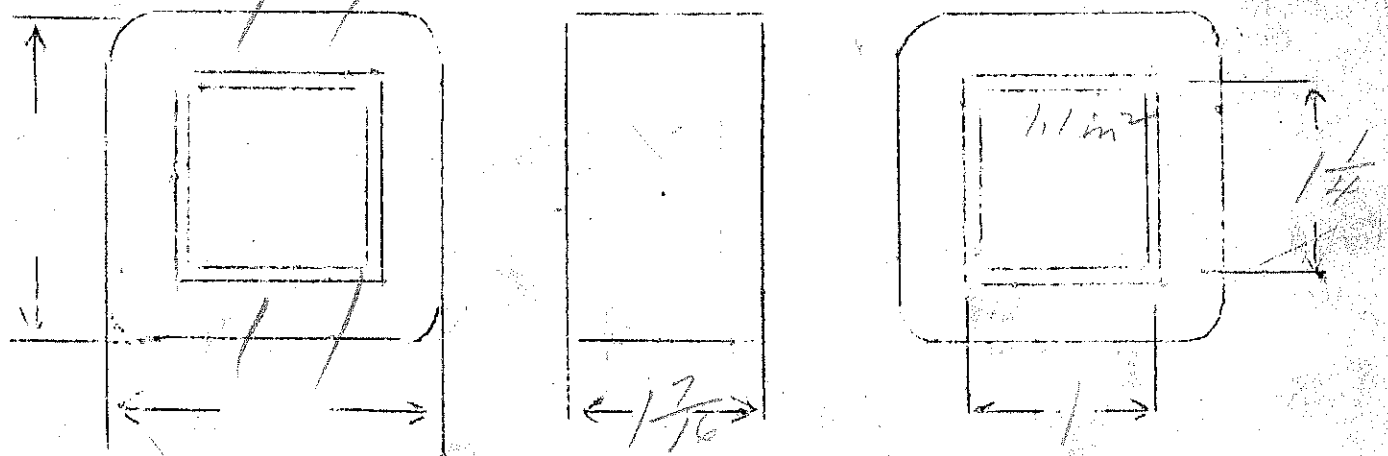
2084-S

Winding	PRI	SEC				
Turns	540	124	27.6v O.E.			
Taps						
Wind. Lgth.	1.25	1.25				
Wire Size	#25	#20				
T.P.L	60-9	32 4L				
Kind Term.	WIPE ONLY	- assembly with 10" #14 Rubber covered				
Term. Lgth.						
Layer Insul.	40#	50# or 0007 Kraft				
Wrapper	2100580	2100560				
FUBE	71007			IMPREGNATION		VARNISH

CURE 1 1/4

$C_0 = 368 - 327$ (3.12 Amp)
 $C_0 = 572 - 510$ (2. Amp)
 TPV = 4.5
 FC = 75.6 @ 60v

$2 \times 24 = 48 VA$
 Cont. Rating =
 $Sec VA = 75 \times 48$
 $Pri VA = 100 - 64.8$
 $Pri I = 870 ma - 559 ma$
 $\tau = 83 \cos \phi = 90$



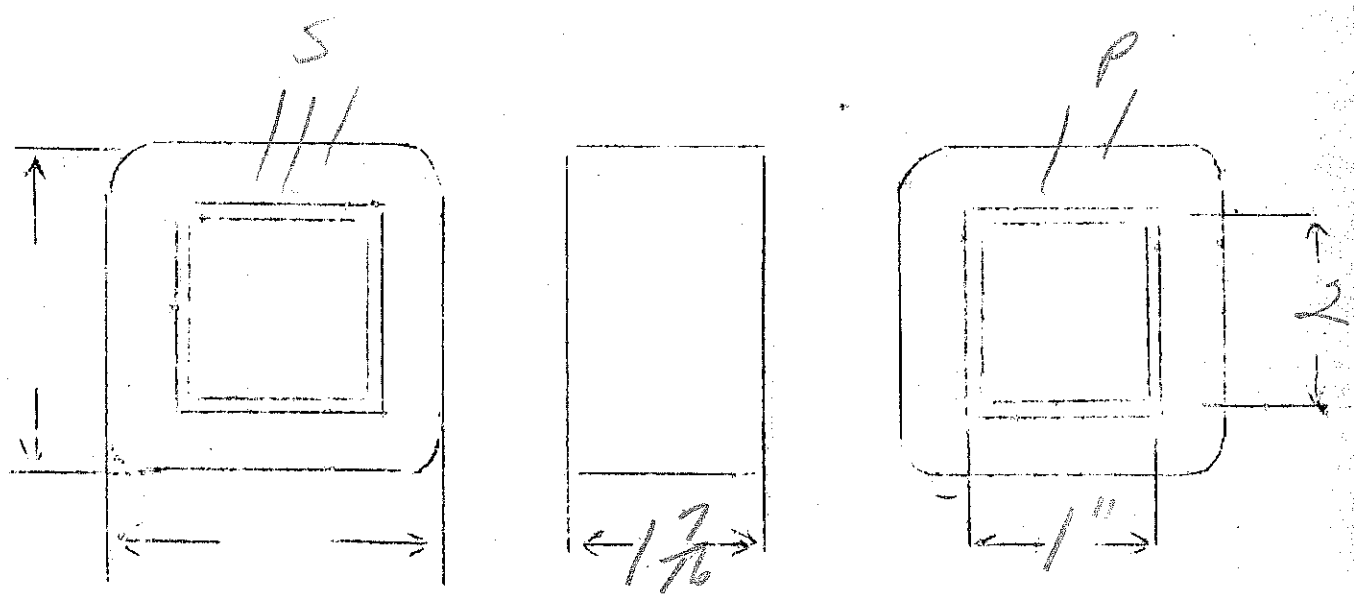
stamp case
 75 VA INT. MPC
 0 24 115V-50.60C.
 (S) (P)

Sample 6210-25 on 1" core

5

SPEC. NO. 2085-25R

Winding	SEC	SHIELD	PRI	F ₁	F ₂		
Turns	3500	66	590	29	36		
Taps	1750			-	-		
Wind. Lgth.	1.25	1.25	1.25	-	-		
Wire Size	26	26	26	20	20		
T.P.L.	200-18		66-9	24			
Kind Term.	#20 P Braided	W.O.	#20 P Braided	WIPE ON			
Term. Lgth.	9"	3"	9"	9"	9"		
Layer Insul.	double 16#	-	40#	-	-		
Wrapper	1L0A7VC	1L007VC	2L0056A	2L0056A	2L0056A		
TUBE	52057			IMPREGNATION	VARNISH		
CURE	1X2						



Ep - 115V

E3 - 700VCT - 200 MA

E4 - 5V - 3amps

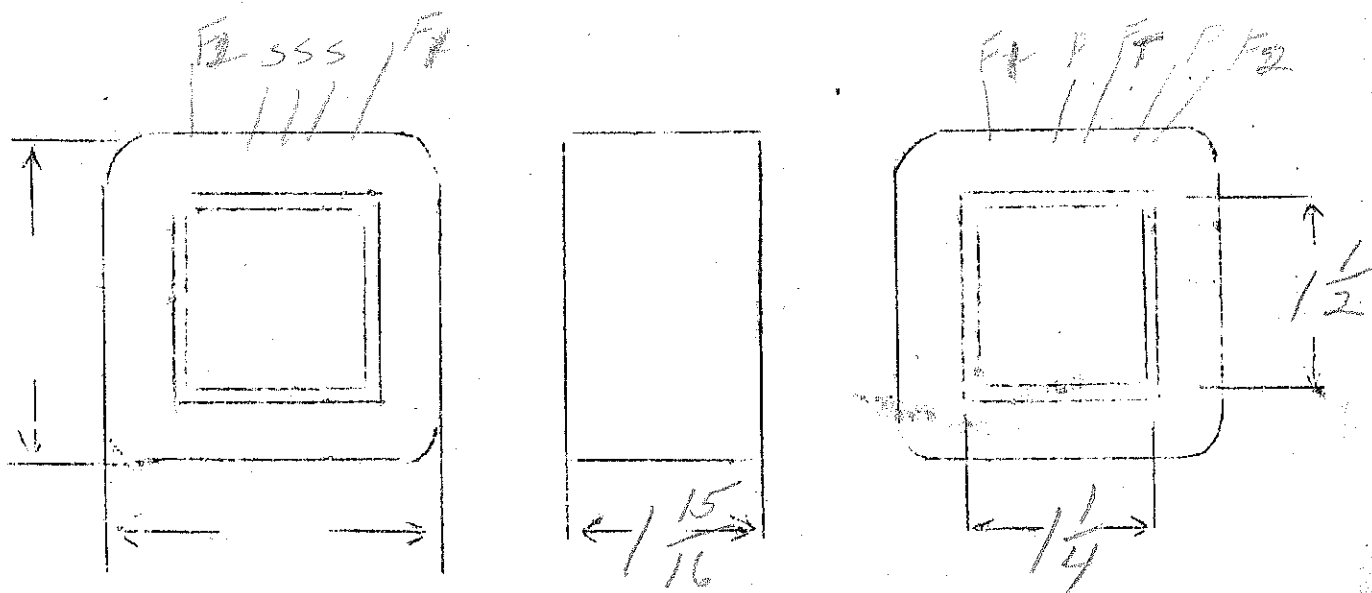
E5 - 63VCT - 3amps

$\frac{N}{E} = 3.08$

SPEC. NO.

2086 (bearing thin 18120)

Winding	SEC	SHIELD	PRI	F1	F2		
Turns	2340	132	354	17	21		
Taps	1170	-	-	-	10		
Wind. Lgth.	1.75	1.75	1.75	-	-		
Wire Size	#29	#29	#21	#17	#17		
T.P.L.	132-18	132-1	52-7	14	14		
Kind Term.	silver	silver	W.O.	W.O.			
Term. Lgth.	3"	3"	3"	3"			
Layer Insul.	30#		40#				
Wrapper	2L007VC	2L007VC	2L007GA	2L007GA	2L007GA		
TUBE	7L007	IMPREGNATION			VARNISH		
CURE	1 1/4 x 1 1/2						



Pri - 115 V

Sec - 13.8 - tap at 3.8V open circuit

465

SPEC. NO.

2087

only

Winding	PRI	SEC				
Turns	535	65				
Taps		18				
Wind. Lgth.	1.25	1.25				
Wire Size	#26	#16				
T.P.L.	67-8					
Kind Term.	WIPE ONLY	WIPE ONLY - slurring				
Term. Lgth.	3"	2"				
Layer Insul.	40#	.005				
Wrapper	20056A	20056A				

TUBE

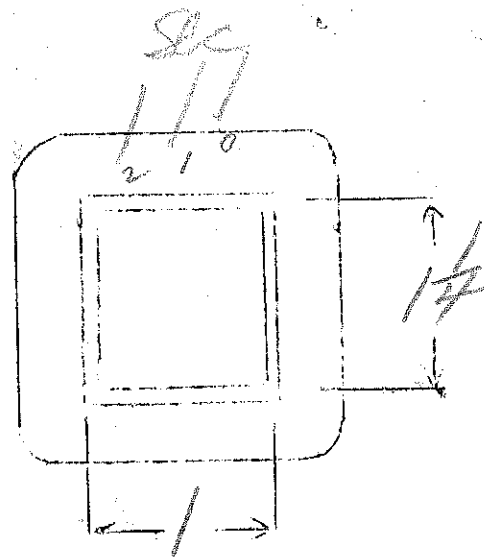
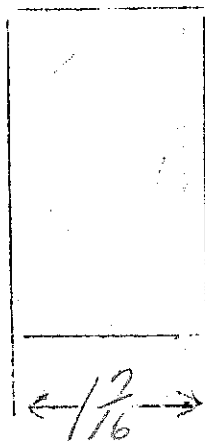
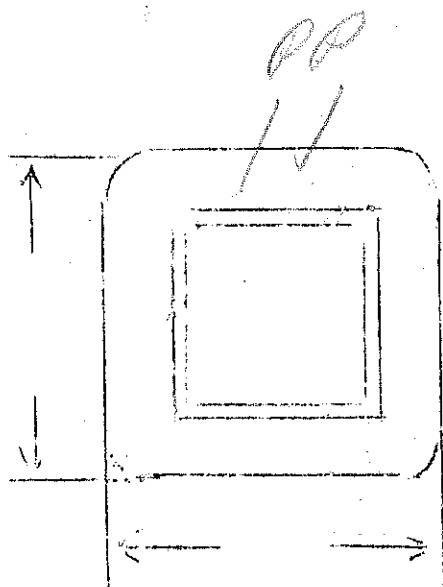
72007

IMPREGNATION

VARNISH

CURE

1x1/4



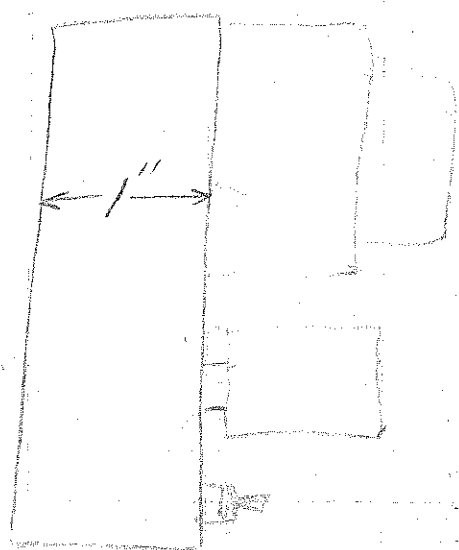
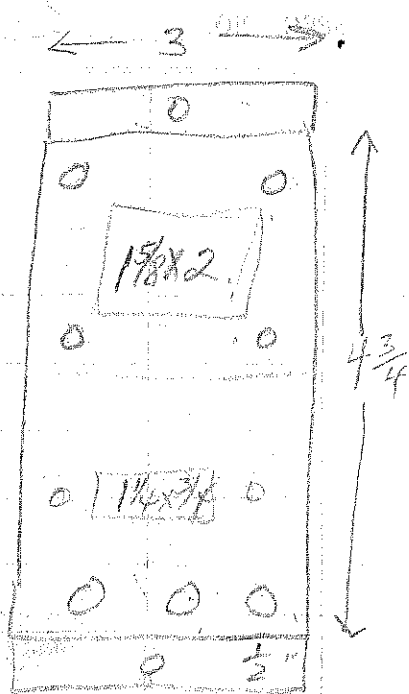
$$\begin{array}{r} 11.70 \\ 1.65 \\ \hline 13.35 \end{array}$$

$$\begin{array}{r} 200 \\ 13.85 \\ \hline 113.80 \end{array}$$

$$\begin{array}{r} 13.80 \\ 1.50 \\ \hline 15.30 \end{array}$$

$$\begin{array}{r} 26 \\ 45 \\ \hline 71 \\ 800 \\ 130 \\ \hline 930 \\ 104 \\ \hline 1170 \end{array}$$

$$\begin{array}{r} 300 \\ 2200 \\ \hline 2500 \end{array}$$



$$\begin{array}{r} 25120 \\ 208 \\ \hline 25328 \end{array}$$

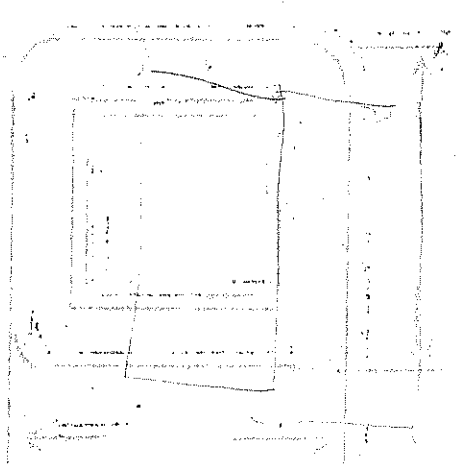
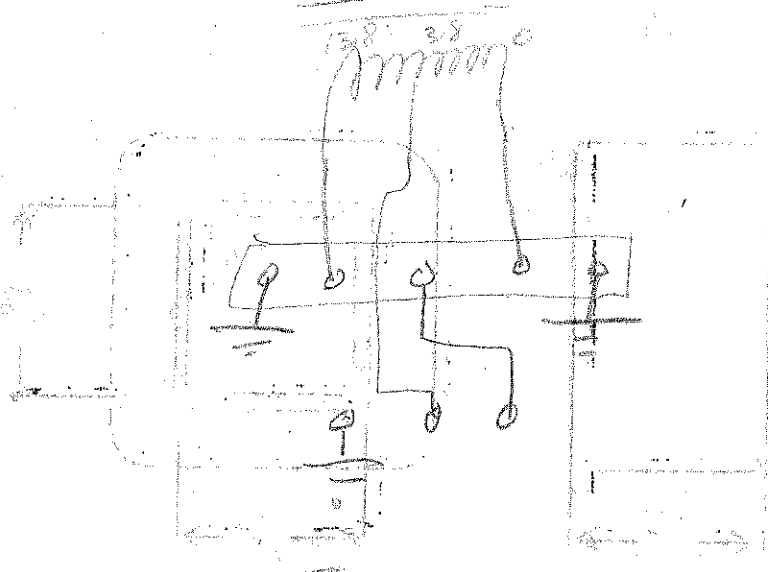
$$\begin{array}{r} 1100 \\ 2200 \\ \hline 3300 \end{array}$$

$$\begin{array}{r} 100700 \\ 3 \\ \hline 302100 \end{array}$$

$$\begin{array}{r} 60700 \\ 180 \\ \hline 60880 \end{array}$$

$$\begin{array}{r} 3.5 \\ 2 \\ \hline 5.5 \end{array}$$

A series of wavy lines, possibly representing a signal waveform or a specific material texture.



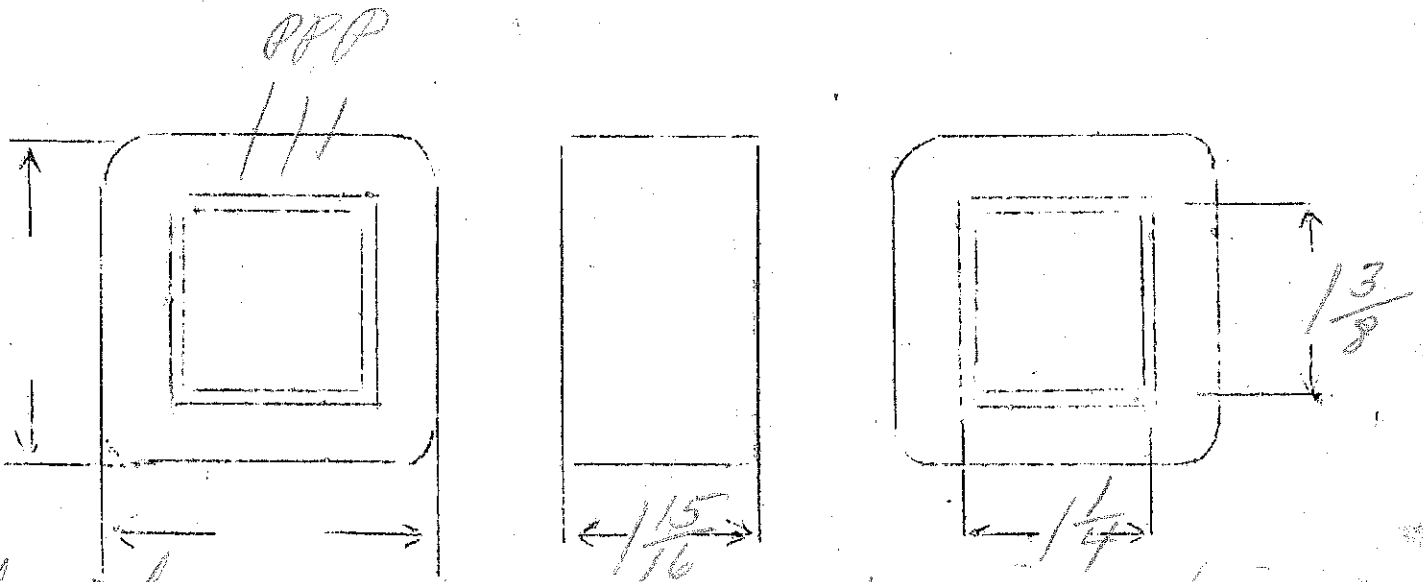
$$\begin{array}{r} 086 \\ 081 \\ 05 \\ 036 \\ \hline 166 \\ 561 \end{array}$$

Primary and shield only - 666

3.3

SPEC. NO. 2088

Winding	PR1	SHIELD				
Turns	4/3	1				
Taps	363					
Wind. Lgth.	1.75					
Wire Size	#21	shunt stack				
T.P.L.	53					
Kind Term.	#20 18r	oil 18r				
Term. Lgth.	9"					
Layer Insul.	double 20#					
Wrapper	100TVC	2000 TGA				
TUBE	7L007		IMPREGNATION		VARNISH	
CURE	1 1/4 x 1 3/8 - donut stack					



furnish core and wind. case (cadmium) with coil

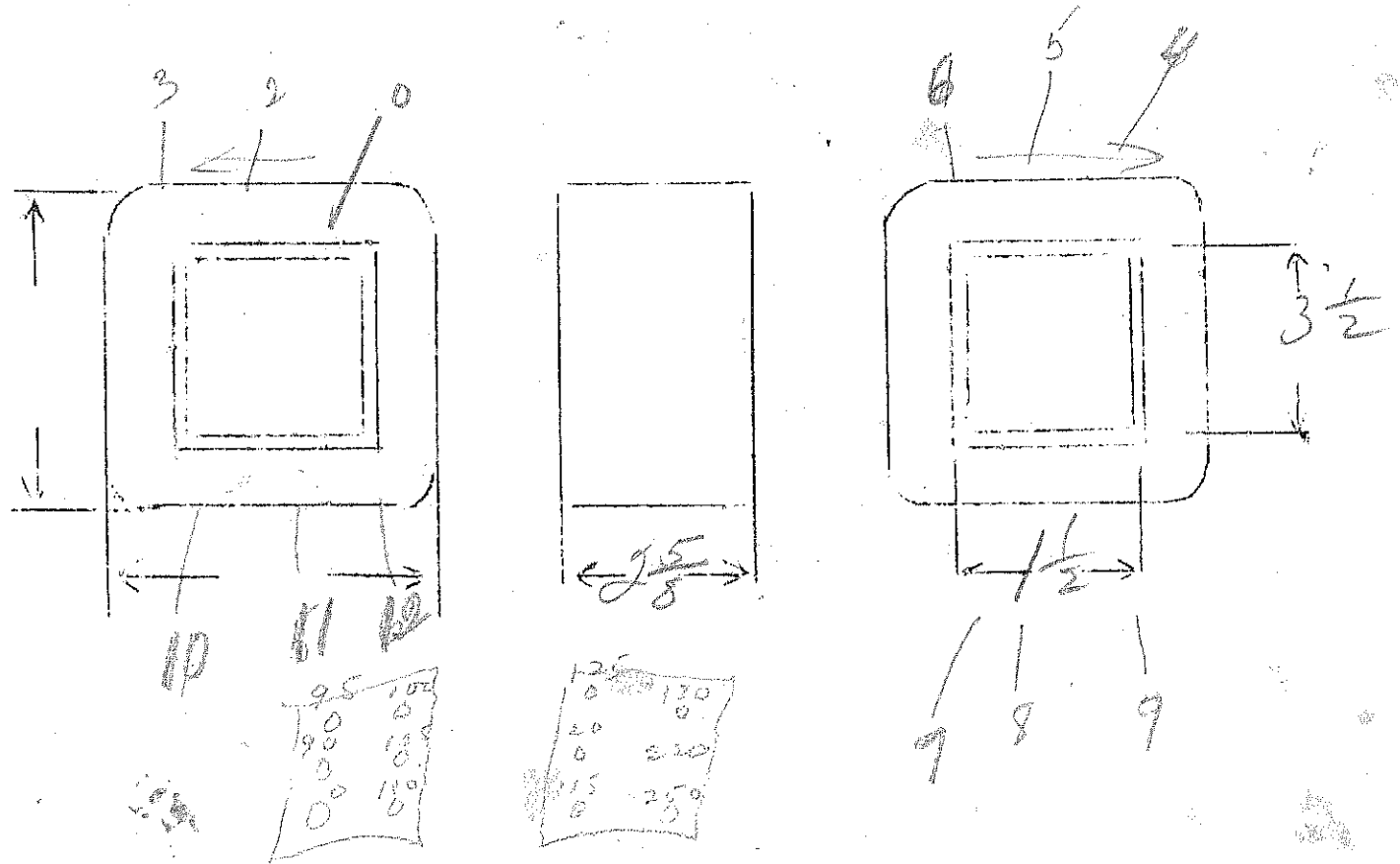
auto transformer tapped 50-90-130V - 16amps
also 220-250V - 8 amp

$$\frac{N}{E} = 1.14$$

Continuous

SPEC. NO. 2089

Winding							
Turns	103	46 40 23	137				
Taps		34 28 17 12	103				
Wind. Lgth.	2 3/8	6					
Wire Size	#14	#11	#14				
T.P.L.		2L	8L				
Kind Term.	WIRE ONLY						
Term. Lgth.	4"	4"	4"				
Layer Insul.	.007 Kraft						
Wrapper	200780						
TUBE	10L007	IMPREGNATION		VARNISH			
CURE	1 1/2 x 3 1/2						

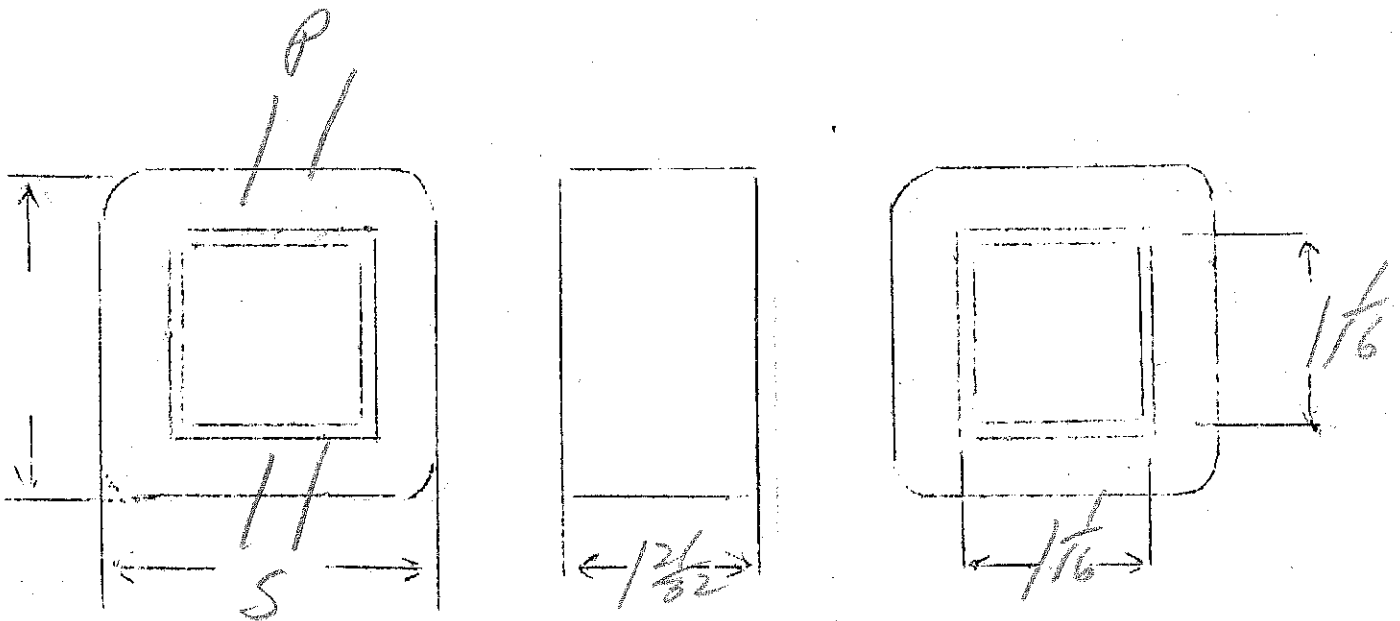


220-24V-75 watt

$$\frac{N}{E} = 5.1$$

SPEC. NO. 2090

Winding	PRI	SEC				
Turns	1170	137				
Taps	—					
Wind. Lgth.	$\frac{115}{32}$	$\frac{115}{32}$				
Wire Size	#27	#17				
T.P.L.	88-14					
Kind Term.	WIRE ONLY					
Term. Lgth.	3"					
Layer Insul.	40#	007				
Wrapper	210056A					
TUBE	71007		IMPREGNATION		VARNISH	
CURE	1/16 x 1/16					



Ep-105-112-120

ES-2200VCT. 350 ma - ground start
 EF-10.5V - 8 amp CT - ground CT

SPEC. NO.

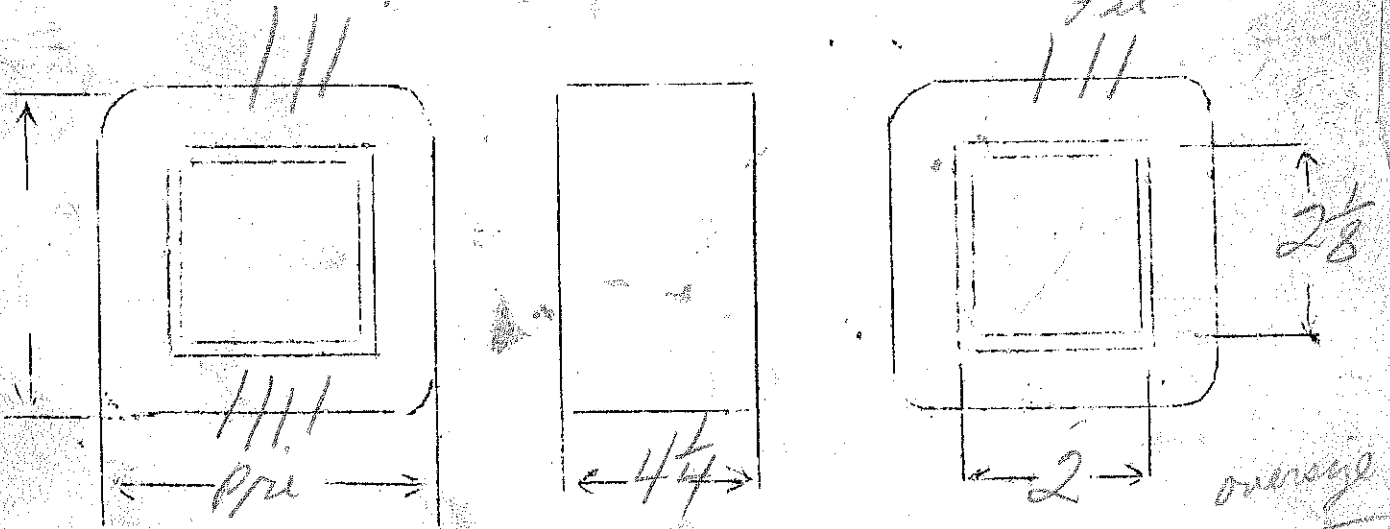
2091

white 1.4

Winding	SEC	PRI	FIL			
Turns	3380	168 ¹¹	16			
Taps	1690	157 ¹¹	8			
Wind. Lgth.	3 ⁵ / ₈	3 ⁵ / ₈				
Wire Size	#25	#11	#13	Slack Peroid		
T.P.L.	170-70	35-5		CT - grounded		
Kind Term.	WIRES ONLY	WIRES ONLY	WIRES ONLY	Sleeving		
Term. Lgth.	18 ¹¹	3 ¹¹	18 ¹¹			
Layer Insul.	double 40#	007 Kraft				
Wrapper	31007VC 310056A	310056A	310056A			
TUBE	10L007 + 2007VC		IMPREGNATION		VARNISH	
CURE	2 x 2 1/2					

SEC TO BAKELITE STRIP - PRI TO PANEL

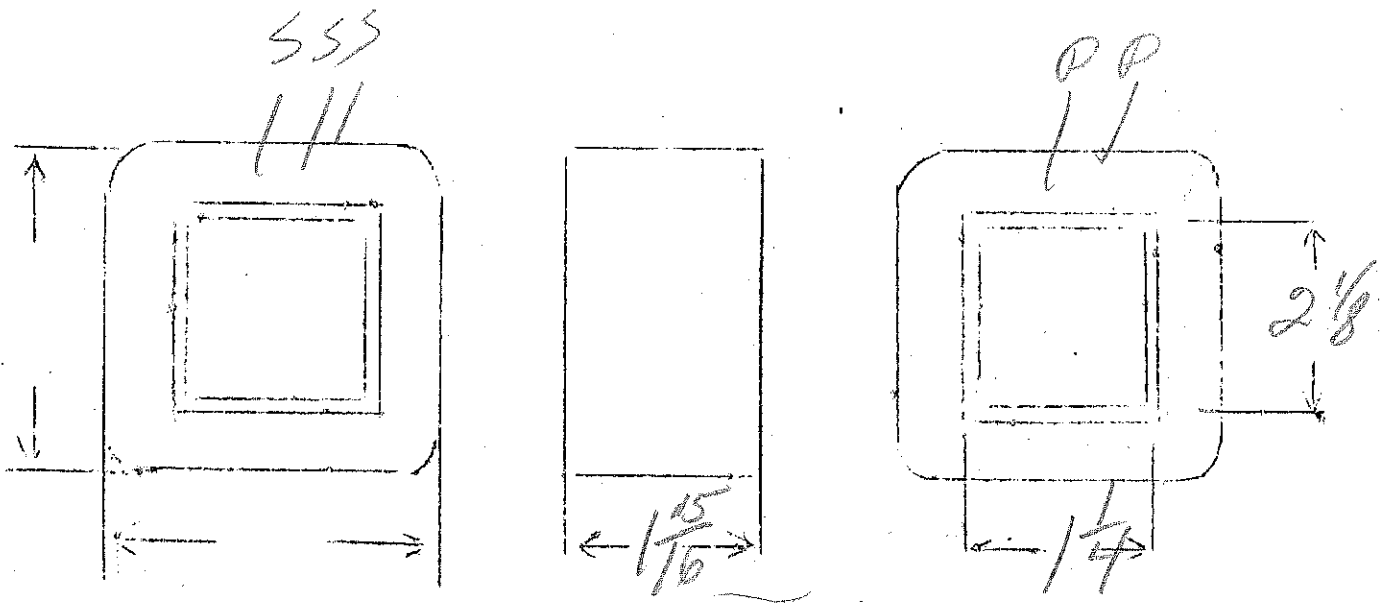
SSS



uncessed intg - aluminum frame & angle iron

E₁ - 115
 E₂ - 800VCT - 250 Ma
 E₃ - 5V - 3 amp
 E₄ - 2.5V - 5 amp CT
 E₅ - 2.5V - 7 amp CT
 VA = 145
 219 SPEC. NO. 2092

Winding	SEC	SHIELD	PR1	F ₁	F ₂	F ₃
Turns	1880	118	253	12	6	6
Taps	940	—	—	—	3	3
Wind. Lgth.	1.75	1.75	1.75	—	—	—
Wire Size	#28	#28	#20	#18	#15	#14
T.P.L.	118-16	118	6L	—	—	—
Kind Term.	#20 Pbraid		#20 Pbraid	WIPE ONLY - SLEEVING		
Term. Lgth.	9"	3"	9"	9"	9"	9"
Layer Insul.	30#		40#			
Wrapper	21007VC	10007VC	21007GA			21007GA
TUBE	71007			IMPREGNATION		VARNISH.
CURE	1 1/4 x 2 1/8					



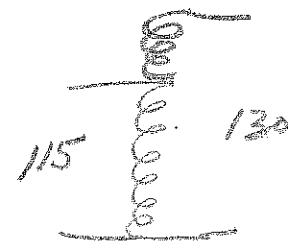
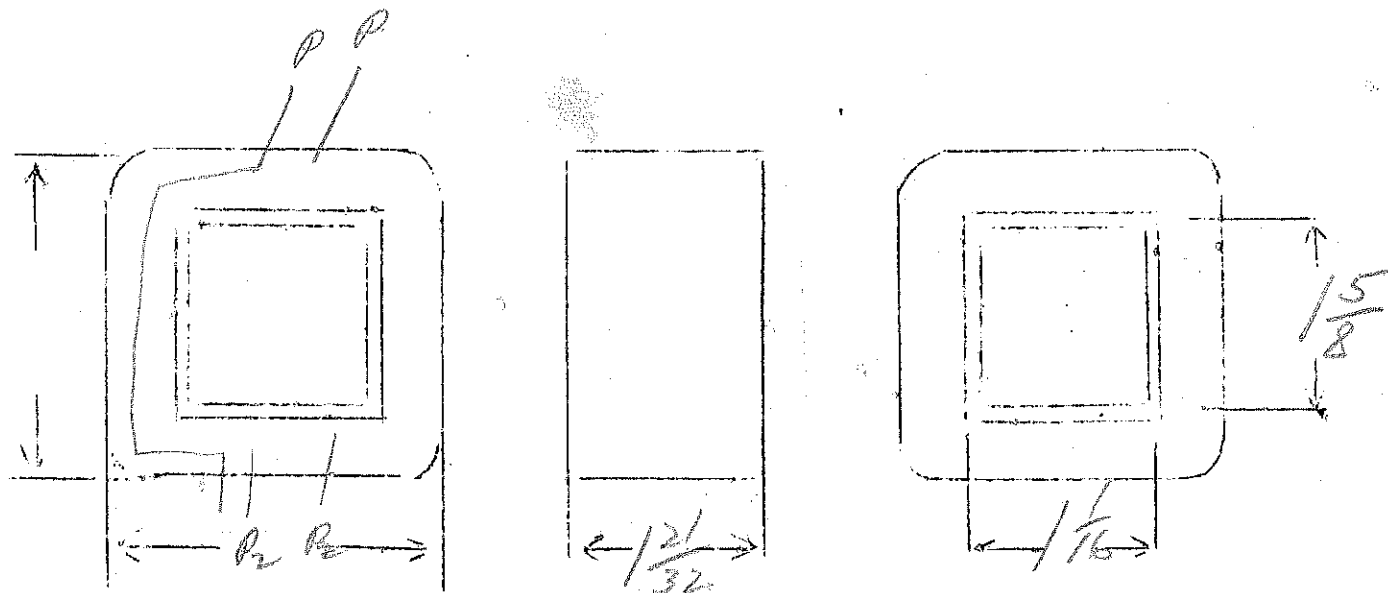
step up 115 to 130 V - 300 watts

35

SPEC. NO.

2093

Continuous							
Winding	PR1	PR2					
Turns	403	56					
Taps							
Wind. Lgth.	$\frac{115}{32}$						
Wire Size	#21	#17					
T.P.L.	46-9	2L					
Kind Term.	WIRE ONLY						
Term. Lgth.	3"	3"					
Layer Insul.	007						
Wrapper		20056A					
TUBE	7L007		IMPREGNATION		VARNISH		
CURE	$\frac{1}{16} \times \frac{1}{8}$						



50-60-C/16
115
○
2093

200 V.A.
130
○

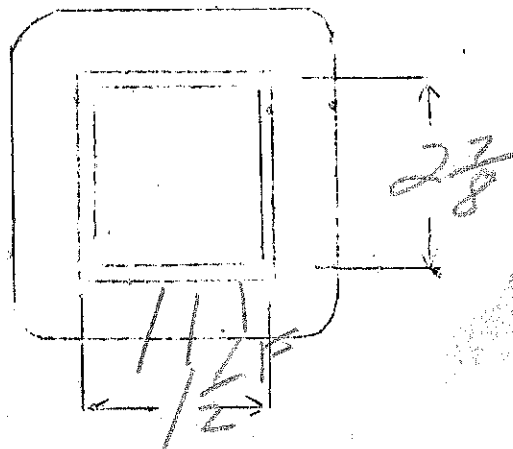
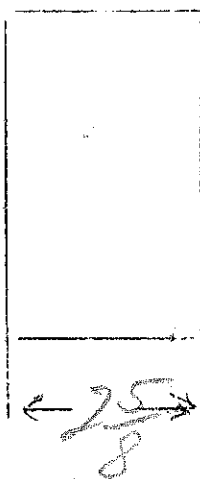
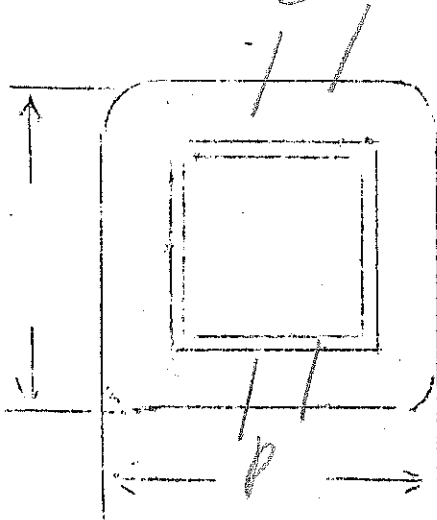
Ep - 115V
 Es - 1200V - 350MVA
 Ef1 - 10.5V - 7amps

SPEC. NO. _____

2094

Winding	SEC	PRI	FL				
Turns	1730	153	15				
Taps	—	—	7	ground CT			
Wind. Lgth.	2 3/8	2 3/8	double				
Wire Size	26	#14	16				
T.P.L.	125-14	5L					
Kind Term.	WIRE	ONLY					
Term. Lgth.	3"	3"	3"				
Layer Insul.	double 70#	007 Kraft	—				
Wrapper	21007VC 210056A	210056A	210056A				
TUBE	92007+16007VC			IMPREGNATION	VARNISH		
CURE	1 1/2 x 2 7/8						

mtg - uncased
 5.5

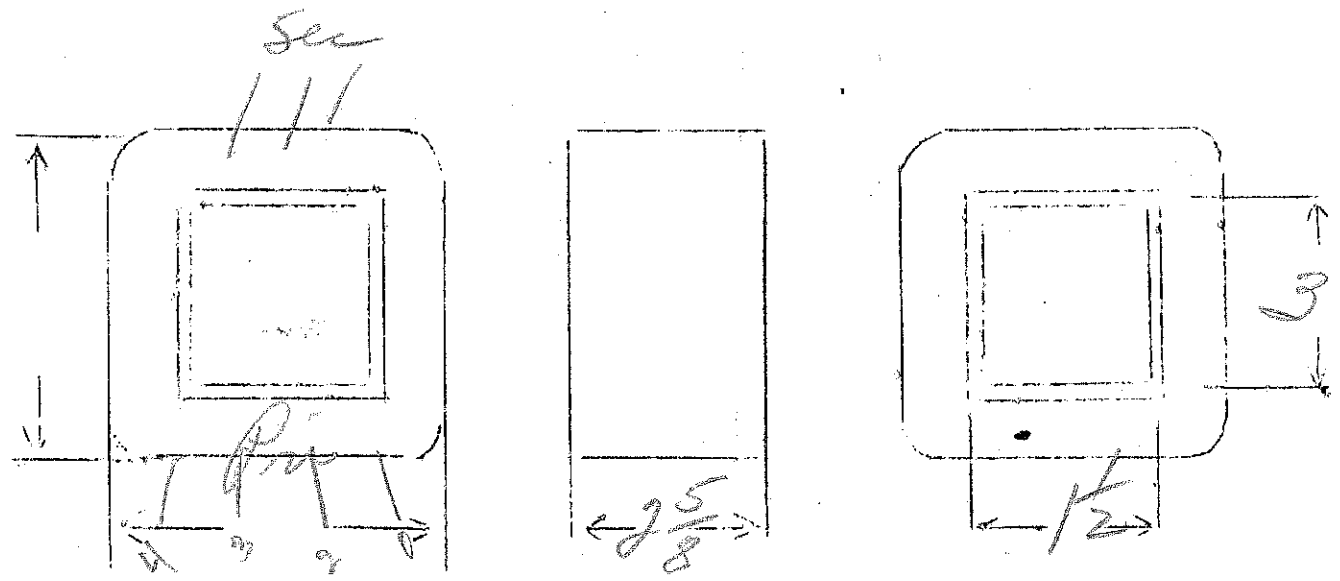


Ep - 115 - 153 - 230
 Es - 2000VCT - 300Ma

SPEC. NO. 2095

Continuous ¹³

Winding	SEC	PRI				
Turns	2870	150	50	100		
Taps	1435					
Wind. Lgth.	2 3/8	2 3/8				
Wire Size	#27	#17	#18	#20		
T.P.L.	144-20	46-3 1/4	50-1	21		
Kind Term.	WIRE	ONLY				
Term. Lgth.	4"	4"	4"	4"		
Layer Insul.	double 40#		007			
Wrapper	2L0057VC 2L0058A			2L0056A		
TUBE	10L007H 2L007VC			IMPREGNATION	VARNISH	
CURE	1/2 X 3					

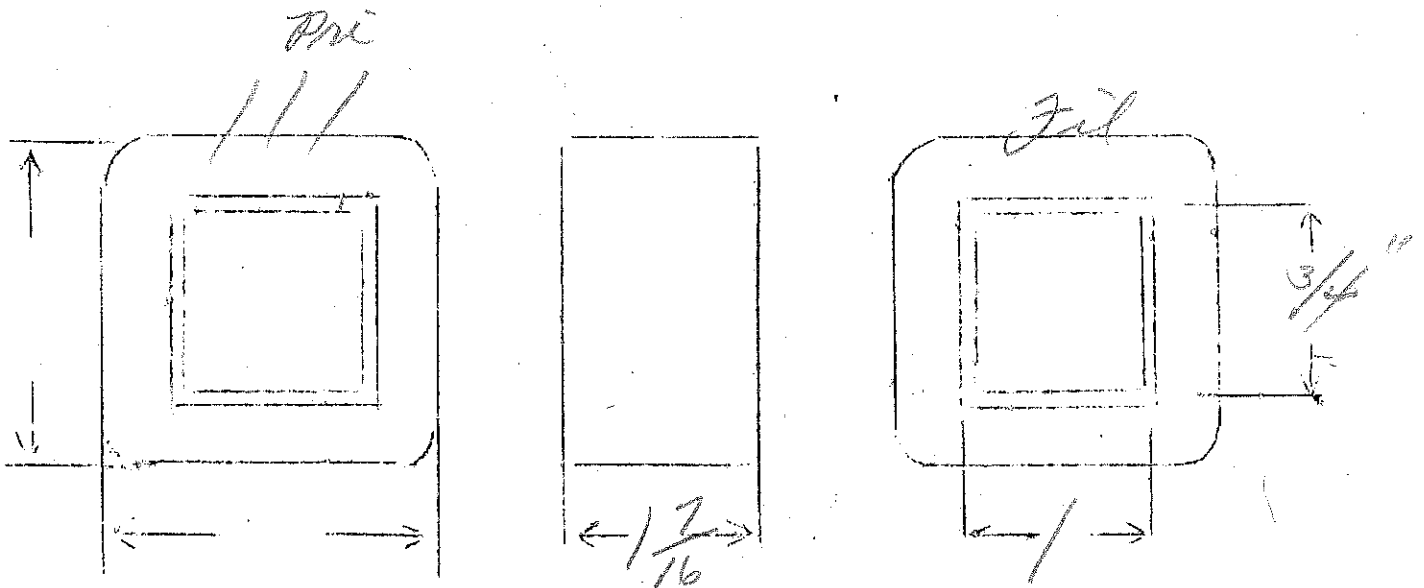


Ep-110-120

Es - 2.5V - 2.75V - 3.0V - 8amps

SPEC. NO. 2096

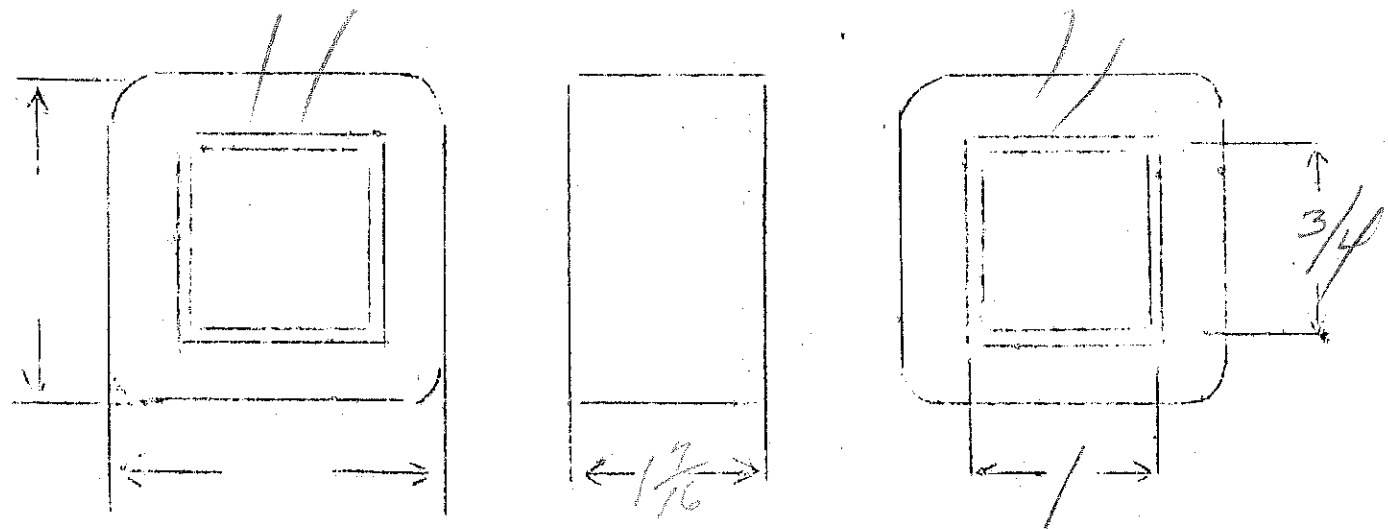
Winding	PRI	SEC					
Turns	880	24					
Taps	808	22 - 20					
Wind. Lgth.	1.25	1.25					
Wire Size	#28	#13					
T.P.L.	81						
Kind Term.	WIRES	ONLY					
Term. Lgth.	3"	3"					
Layer Insul.	30#						
Wrapper	2L0056A	2L0056A					
TUBE	7L007		IMPREGNATION			Varnish	
CURE	1 x 3/4						



Ep - 115
 Es - 9V-2amps

SPEC. NO. 2097

Winding	PRI	white sec				
Turns	850	77				
Taps						
Wind. Lgth.	1.25	1.25				
Wire Size	#28	#20				
T.P.L.	73-12					
Kind Term.	#20 P2	WIRE ONLY				
Term. Lgth.	12"	12"				
Layer Insul.	40#					
Wrapper	2L005GA	2L005GA				
TUBE	7L007		IMPREGNATION	Varnish		
CURE	1X3/4					



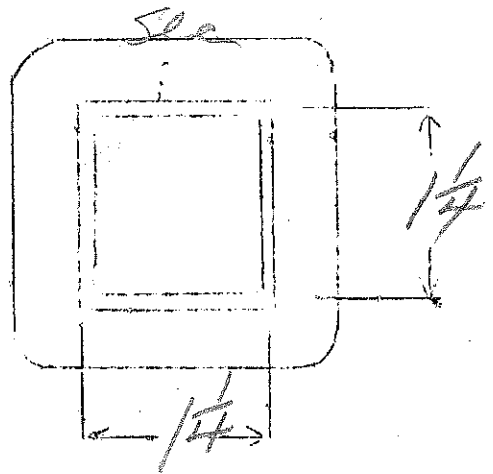
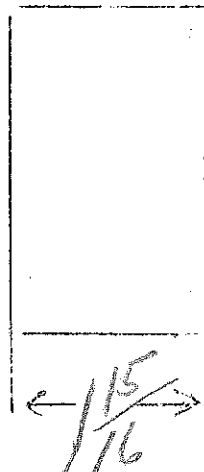
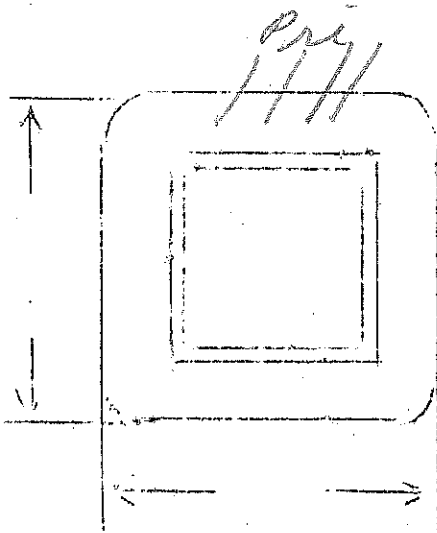
Ep - 220-230-240

Es - 6V - 20 amps

37

SPEC. NO. 2098

Winding	PR1	SEC				
Turns	890	24				
Taps	850 815					
Wind. Lgth.	1.75	1.75				
Wire Size	#24	double #13				
T.P.L.	75					
Kind Term.	WIPE ONLY					
Term. Lgth.	3"	3"				
Layer Insul.	50#					
Wrapper	2L007GA	2L007GA				
TUBE	7L007		IMPREGNATION		VARNISH	
CURE	1 1/4 x 1/4					



Ep - 115 Volts
 Es - 8.2 Volts - 2 amperes

7.2

SPEC. NO.

2099

Winding	PRI	white SEC				
Turns	830	69				
Taps						
Wind. Lgth.	7/8					
Wire Size	#30	#20				
T.P.L.	72-12	3L				
Kind Term.	#20 Par Br	WIRE ONLY				
Term. Lgth.	9"	9"				
Layer Insul.	30					
Wrapper	210056A	210056A				

TUBE

76007

IMPREGNATION

Varnish

CURE

3/4" / - 240 26 hr

