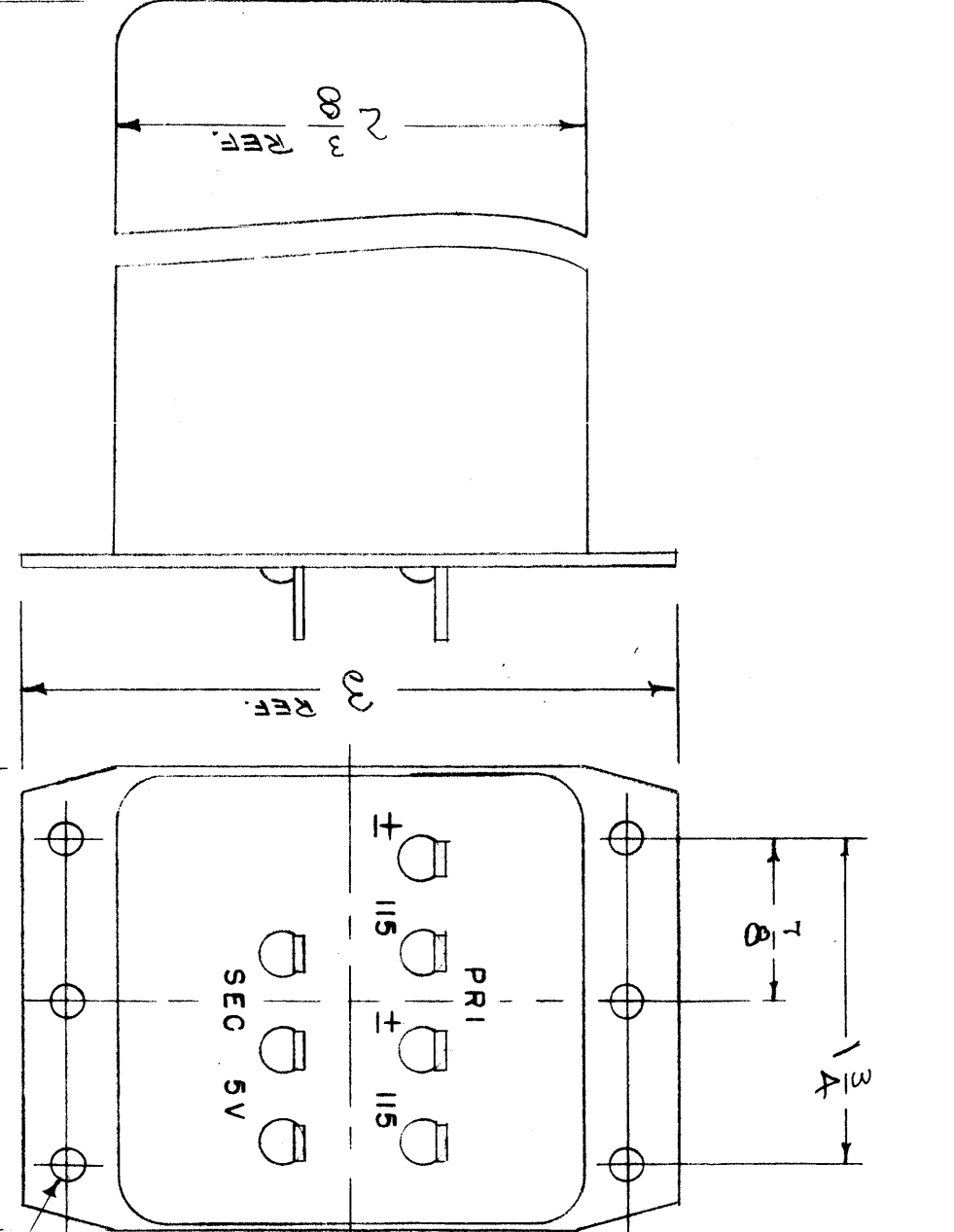
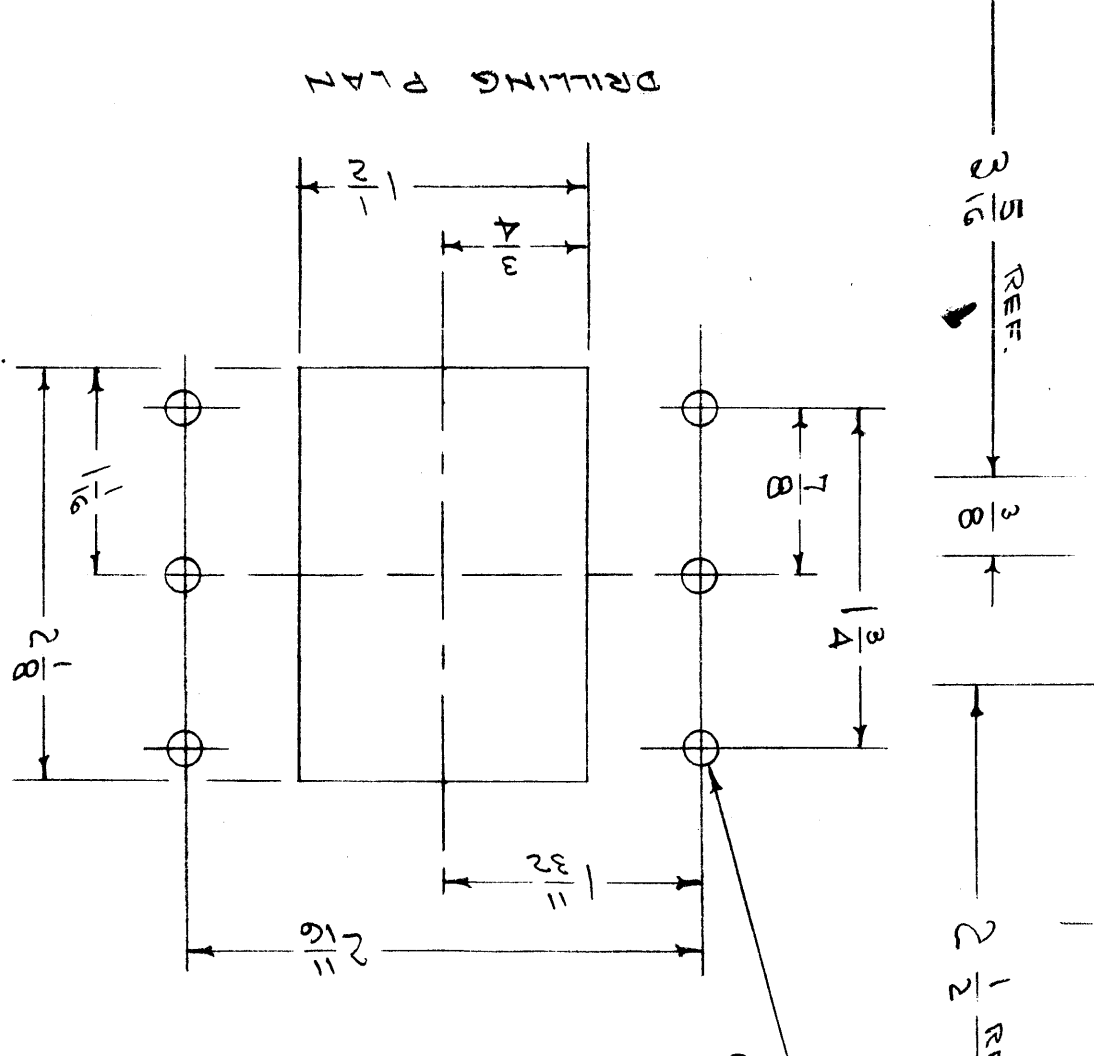


ALL OTHERS		DEC. DIM. ±		FRAC. DIM. ±		ANGULAR DIM. ±	
DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.							
SCALE:							
ISSUE ITEM		CHANGED FROM		DATE		CN. NO. DRAFTS	
A 1		NOTE ADDED		9-2-55		1	
A.T.J.		E.S.B.		M		E.S.B.	
E.S.B.		E.S.B.		E.S.B.		E.S.B.	

UNIT	REQ. NO.	MODEL	PROJECT NO.	ASSY. NO.	DATE
1	FR-DRH	333	A-854	10-18-54	

USED ON

REQ. NO.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
			STOCK SIZE	
			MATERIAL	
			WEIGHT PER PC.	
			TYPE & TEMPER	
			HEAT TREAT. SPEC.	
			SEE NOTE	
			FINISH & SPEC. NO.	
			TF-153	



REF. CHICAGO TRANS. DIV. (ESSEX WIRE CORP.) TYPE F-54

THE TECHNICAL MATERIEL CORP.  
MAMARONECK, NEW YORK

TRANSFORMER, FIL. POWER

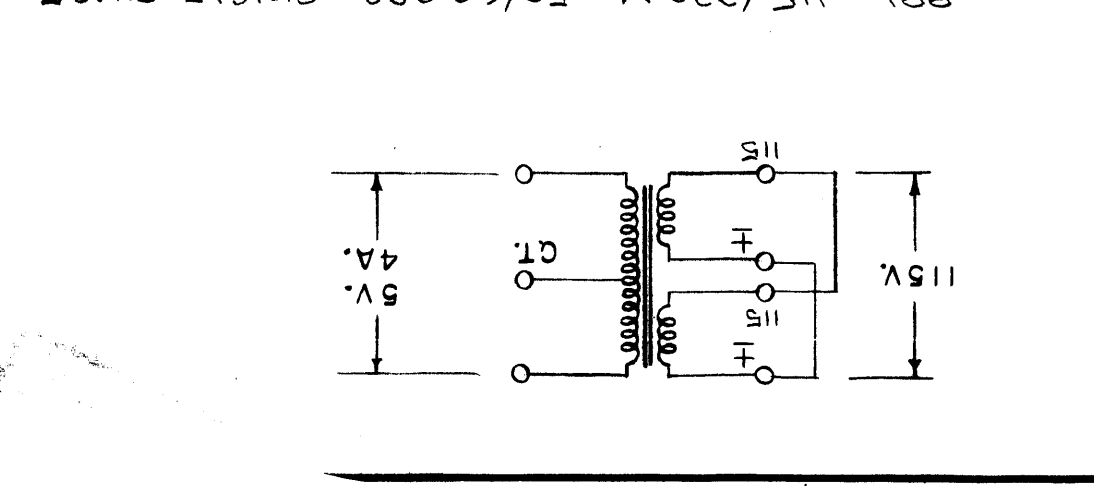
C.P.D. 10/18/54

DRAWN H.I.J.

CHECKED H.I.J.

FINAL APPROVAL

TF-153

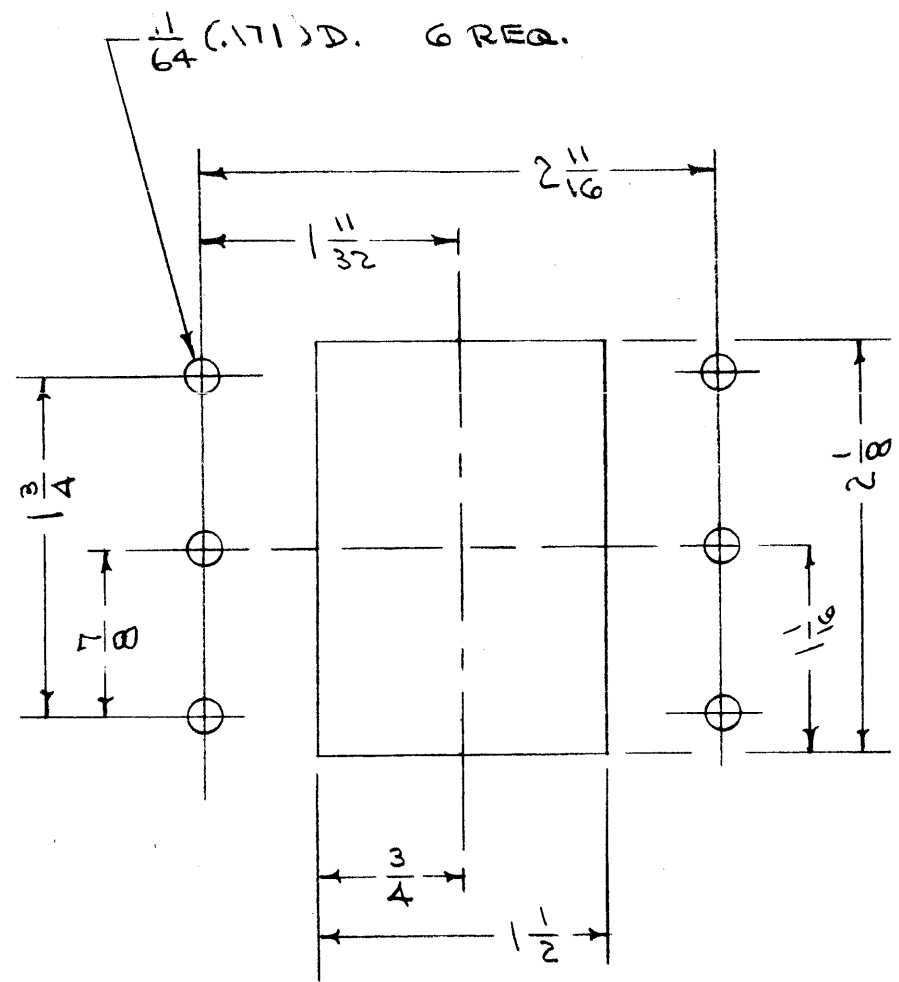
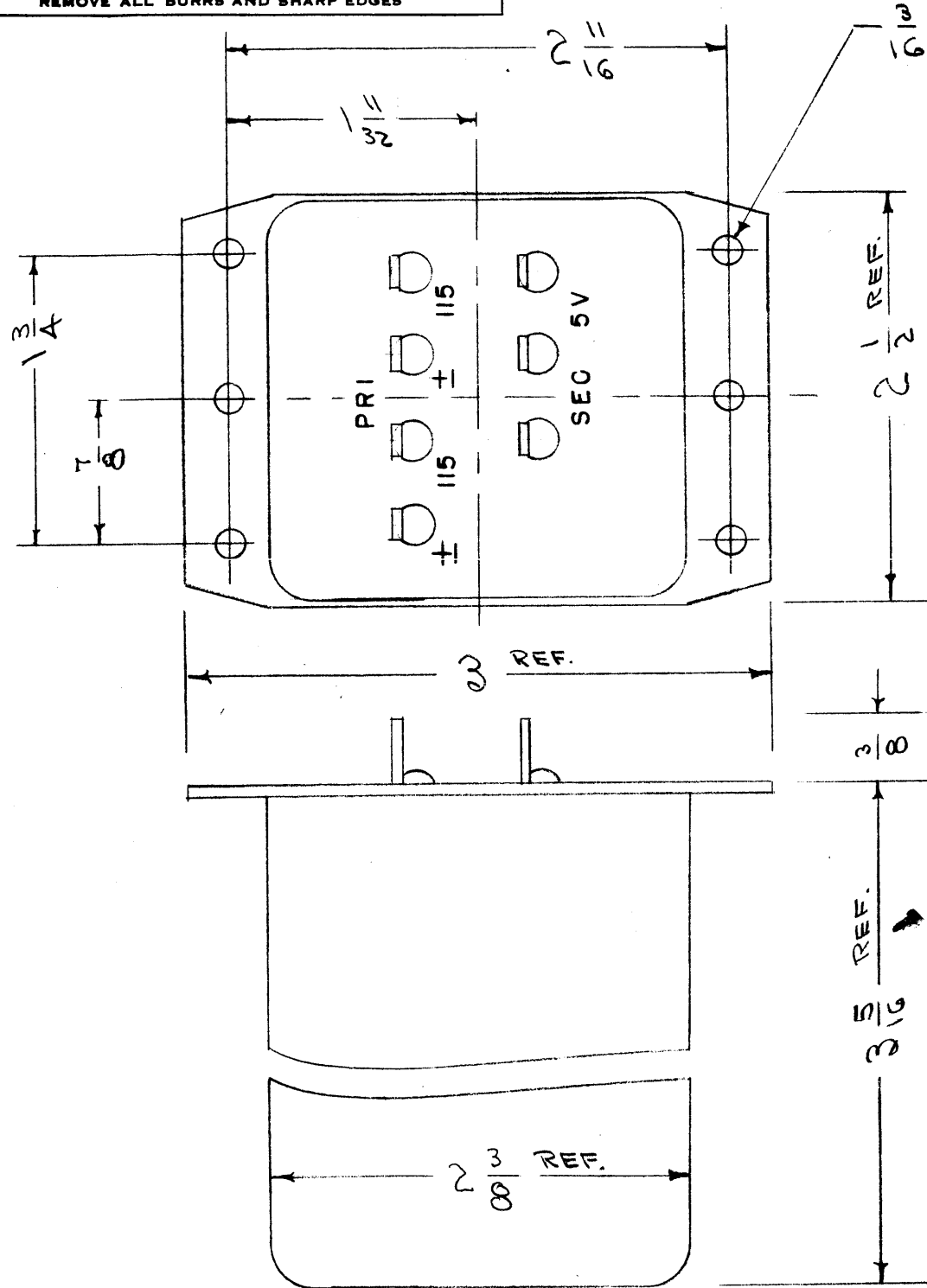
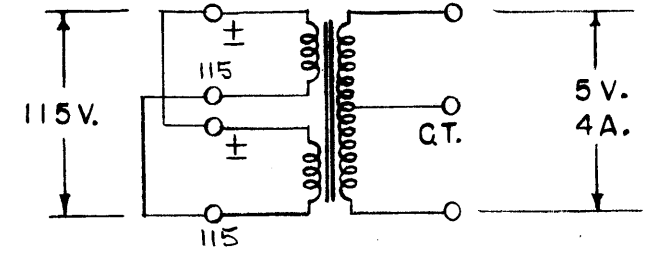
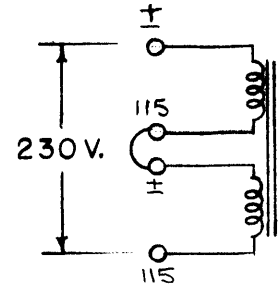


IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.  
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION.  
REMOVE ALL BURRS AND SHARP EDGES

TF-153 A

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.  
 MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION.  
 REMOVE ALL BURRS AND SHARP EDGES

TF-153 A



DRILLING PLAN

PRI. - 115/230 V 50/60 CPS SINGLE PHASE  
 SEC. - 5.0 V @ 4.0 AMPS.

NOTE:  
 CASE - METAL  
 MTG - HOLES

REF. CHICAGO TRANS. DIV. (ESSEX WIRE CORP.) TYPE F-54

NOTE - FINISH  
 { PAINT - S-115 SMOOTH GREY ENAMEL }  
 { STAMP TOP - TF-153 }

BOTH PROCESSES TO BE PERFORMED EITHER BY TMC OR MANUFACTURER AT DISCRETION OF THE PURCHASING AGENT.

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
			TRANSFORMER, FIL. POWER	
			C.D.D. 10/18/54	
			DRAWN	ELEC. DES. APP. MECH. DES. APP.
			CHECKED	FINAL APPROVAL
			SEE NOTE	

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
A	1	NOTE ADDED	9-2-54	1	AP		A.T.J.

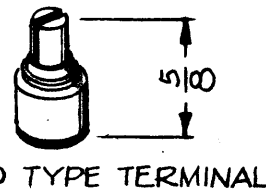
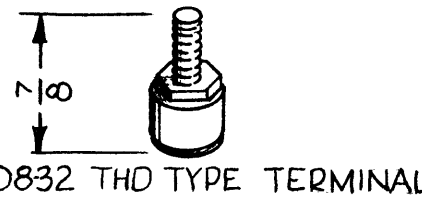
TOLERANCES		SCALE:
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	A

UNIT	FRF-DPH	333	A-854	10-18-54
	MODEL	PROJECT NO.	ASSY. NO.	DATE

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

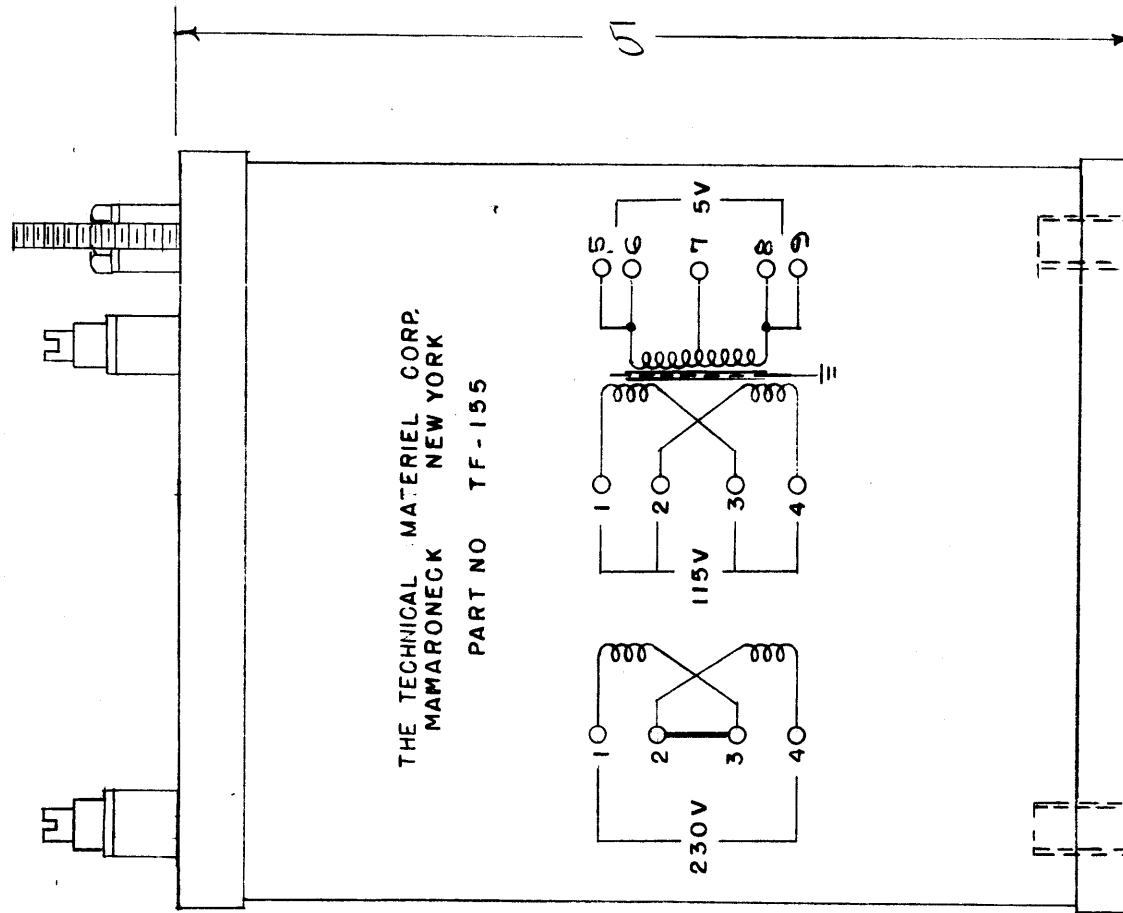
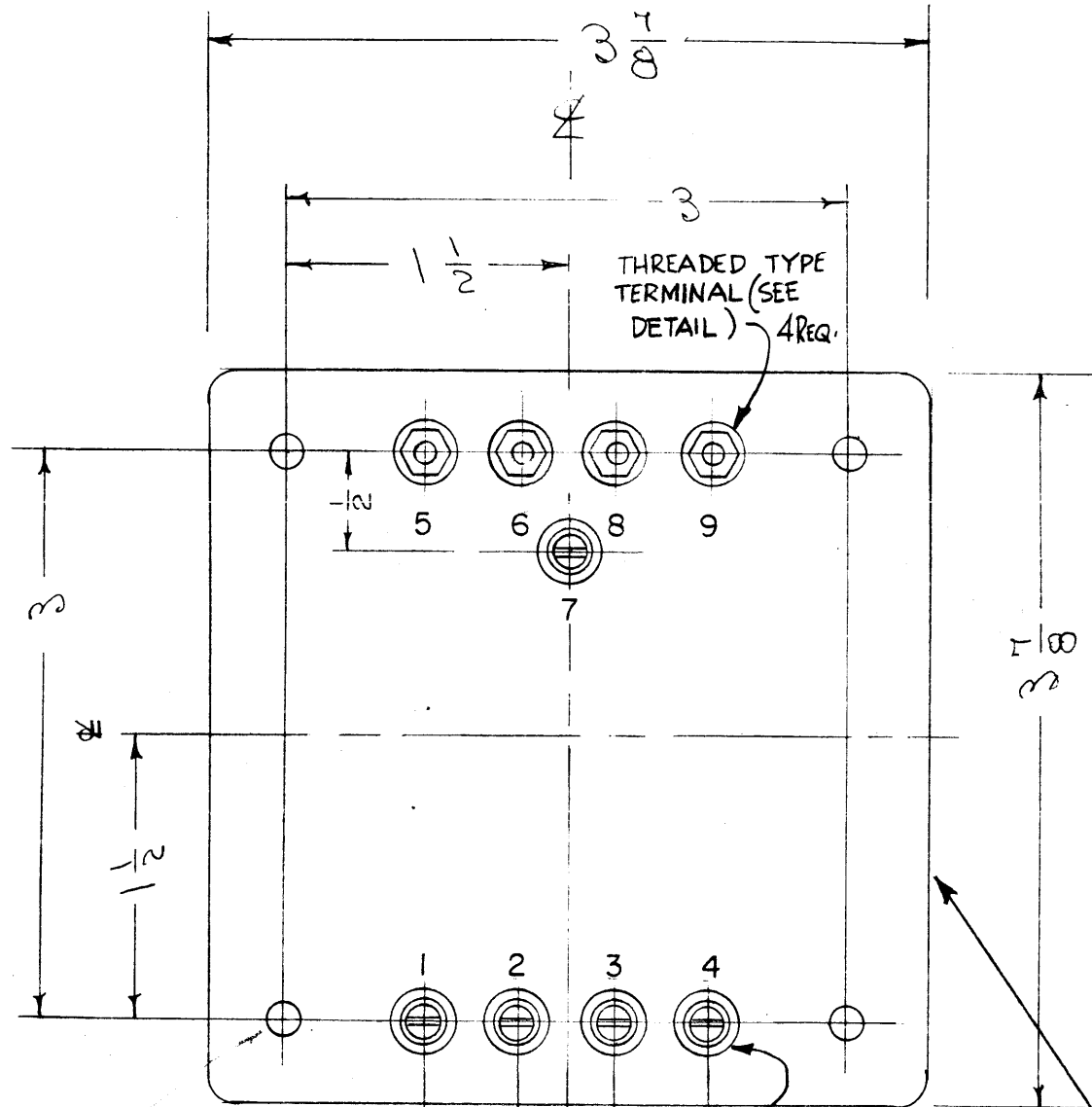


TF-155 G

HARDWARE TO BE SUPPLIED BY TMC:

- ④ LWE10MRN
- ④ NTH1032BN12
- ⑧ FWO8HBN
- ④ LWS08MRN
- ④ NTH0832BN10

ELECTRICAL SPECIFICATIONS-  
 PRIMARY- 115/230 VAC  
 50/60 CPS  
 SINGLE PHASE  
 SECONDARY- 5V AT 30 AMP.  
 INSULATION - 1500 V PEAK.  
 ELECTROSTATIC SHIELD SHALL BE INSERTED (FOIL).  
MECHANICAL SPECIFICATIONS:  
 CASE - STEEL  
 COLOR - GRAY (EXCEPT TERMINAL END)  
 STUDS - 10-32 X 1/2 LONG  
 INSERTS - 10-32 X 1/2 DEEP



NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

10-32 INSERTS  
 1/2 DEEP  
 4 REQ.  
 LAYOUT DIMENSIONS SAME AS STUDS

STUDS 10-32x1/2LG. (4 REQ.)  
 METAL STAMP AS SHOWN 1-2-3-4-5-6-7-8-9

SCHEMATIC TO BE AS ABOVE AND ON SIDE SHOWN.

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
G		THD SIZE ADDED HDW ADDED	3-30-44	16033	WJG		
F	1	TERM. UPDATED, DIMS. ADD.	8-8-61	12069	WJG		
E	1	ADDED 7/8 DIM. 5/8 DIM. RELOCATED	9-26-63	10054			
D	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572			
C	1	TERM. LUGS REVERSED	3-18-58	3			
B	1	REDRAWN - CASE SIZE ADDED	9-14-55	2			

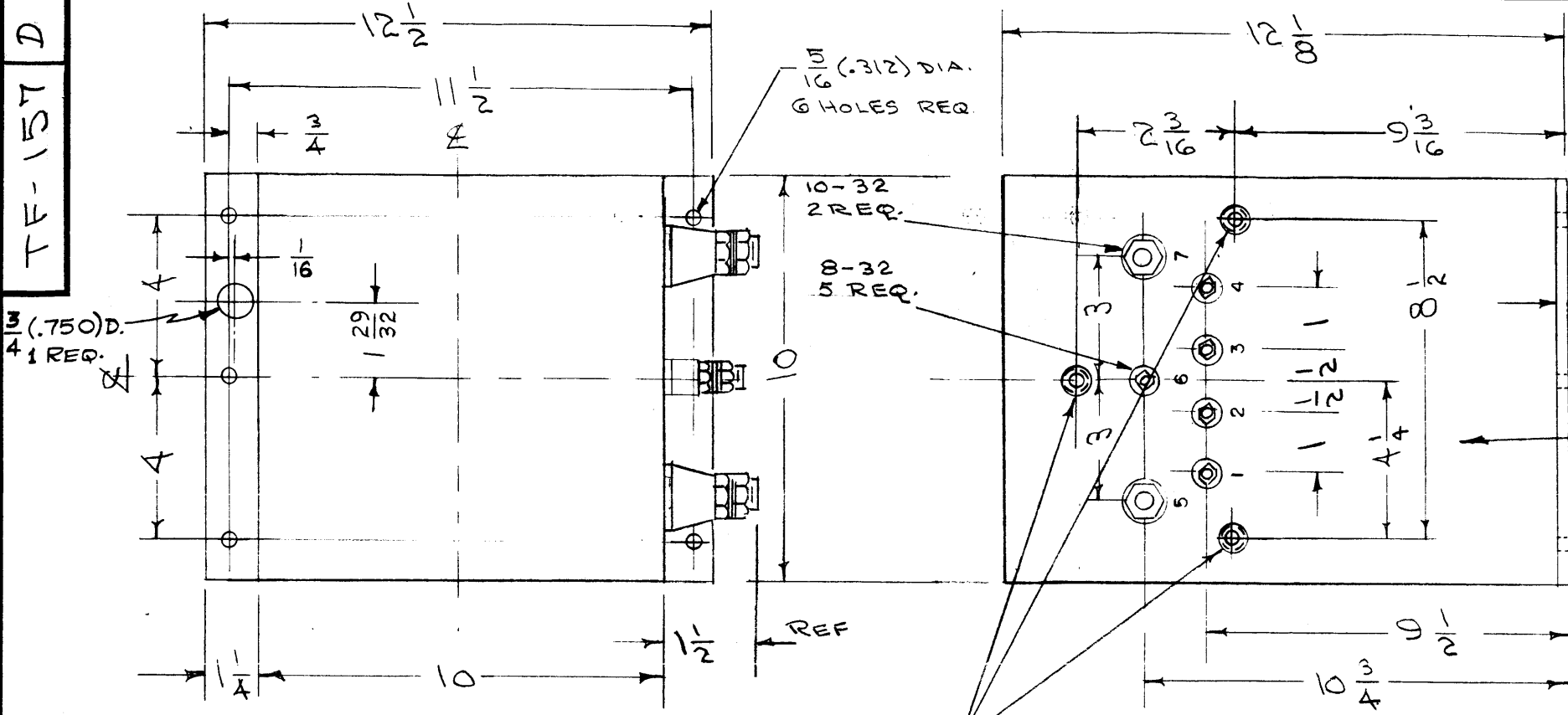
TOLERANCES		SCALE:
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± 1/4 ANGULAR DIM. ±	A
	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.	

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
1	RTF-2	P/A		11-20-58
1	GPT-750RF			9-12-55

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
			TRANSFORMER, FIL. POWER	
			MATERIAL	WEIGHT PER PC.
			TYPE & TEMPER	
			HEAT TREAT. SPEC.	
			FINISH & SPEC. NO.	

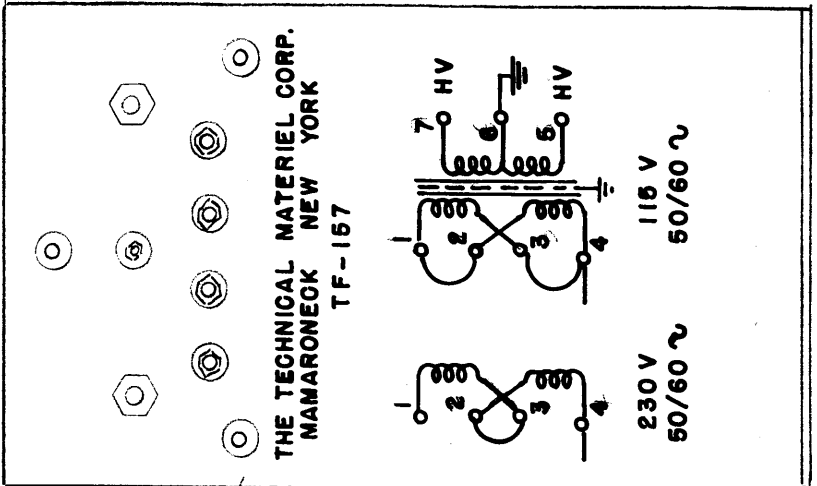
CD. 9/12/55  
 DRAWN: [Signature]  
 ELEC. DES. APP. [Signature]  
 MECH. DES. APP. [Signature]  
 CHECKED: [Signature]  
 FINAL APPROVAL: A.J.J.  
 TF-155 G

TF-157 D



METAL STAMP AS SHOWN 1, 2, 3, 4, 5, 6 & 7.

TAPPED INSERTS 10-32 X 1/2 DEEP 3 REQ.



STEEL PLATE  
PRINT SCHEMATIC IN THIS AREA

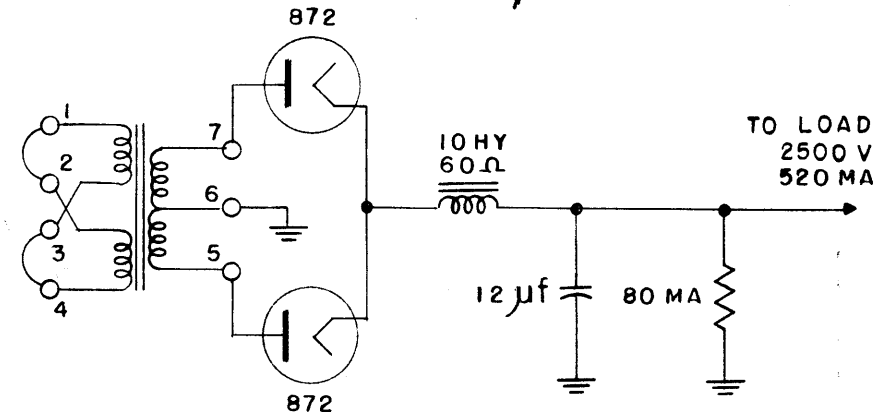
SCHEMATIC DIAGRAM TO BE PRINTED IN WHITE AS SHOWN.

MECHANICAL SPECIFICATIONS  
CASE - STEEL, HERMETICALLY SEALED, RECTANGULAR  
COLOR - TMC SMOOTH GRAY (S-115)

INSERTS - 10-32 X 1/2 DEEP.  
SIZE - 10 X 10 X 12 1/8 EXCLUSIVE OF TERMINALS AND MOUNTING PLATE LIPS

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

ELECTRICAL SPECIFICATIONS



TRANSFORMER TO BE USED IN CIRCUIT AS ABOVE -  
PRIMARY - 115/230 V AC, 50/60 CPS.  
SECONDARY - 2500 V, 600 MA ACROSS LOAD.  
ELECTROSTATIC SHIELD SHALL BE INSERTED (FOIL).

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
D	1	NOTE ADDED (MIL T-27-A)	6-29-53	2572			KB
C	1	3/4 D. HOLE ADDED	12/13/56	4		JAD	WE
B	1	SCHEMATIC DIAGRAM MOVED	5/9/56	3		JAD	WE
A	2	INSERTS DELETED	11/25/55	2		CAD	WE
A	1	TERM. LAYOUT REVISED	11/25/55	1		CAD	WE AJJ

TOLERANCES SCALE:  
DEC. DIM. ±  
FRAC. DIM. ±  
ANGULAR DIM. ±

A

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.  
REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
	CAB/FRAME			
USED ON				

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		TRANSFORMER, PLATE POWER	
		GPT-750	
		CDD 10-2553	
		DRAWN	HECKED
			FINAL APPROVAL
			10/25/53
			TF-157 D
			ELEC. DES. APP.
			MECH. DES. APP.

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

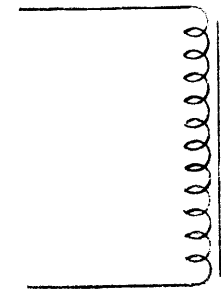
NOTICE TO PERSONS RECEIVING THIS DRAWING

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Property of:  
THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK, NEW YORK

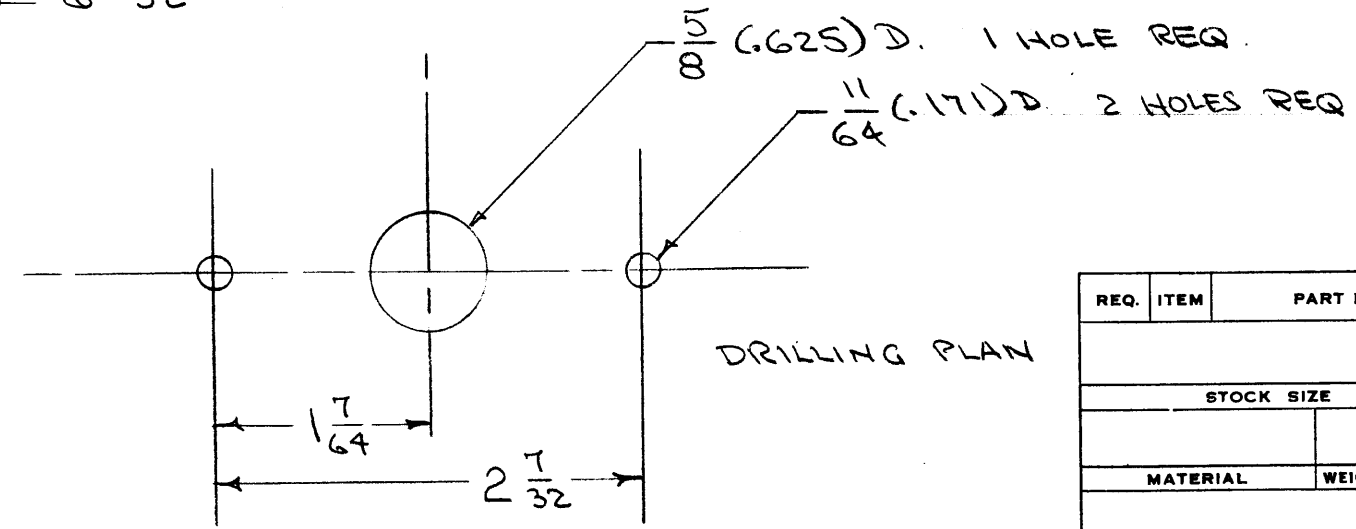
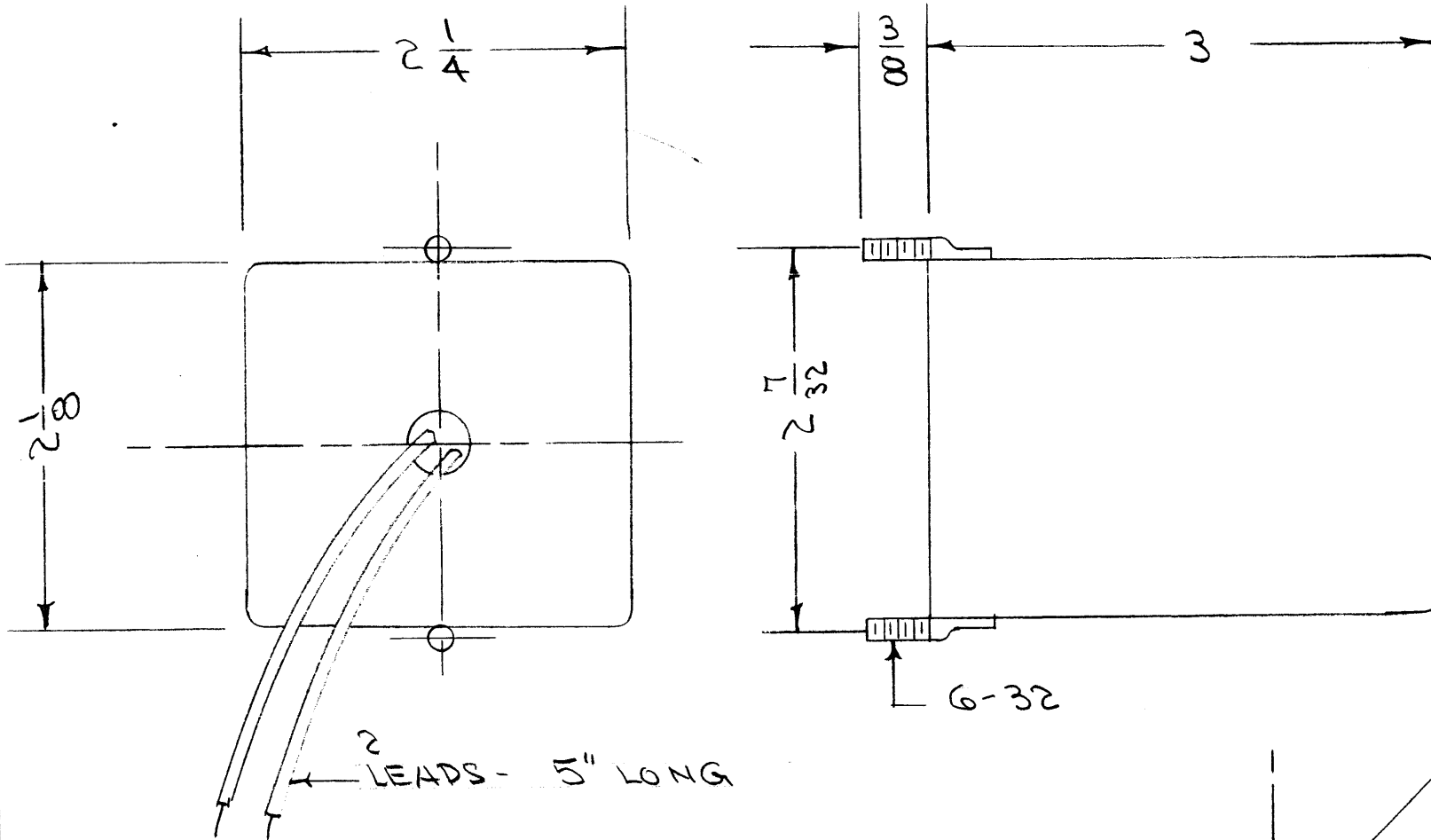
TF-158 A

BLACK



BLACK

11.4 Hys.  
D.C. RESISTANCE 250 Ω  
CURRENT CAP. - 125 MA.  
INSULATION TEST - 2500 V



A	1	2.7/32 DIM. WAS 1.7/32	8/30/61	5519	R.I.	AB	
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE:				
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± 1/64 ANGULAR DIM. ±		A				
DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.							

1	G.P.R.			6-17-55
REQ. PER UNIT	MODEL	PROJECT NO.	ASSY. NO.	DATE
USED ON				

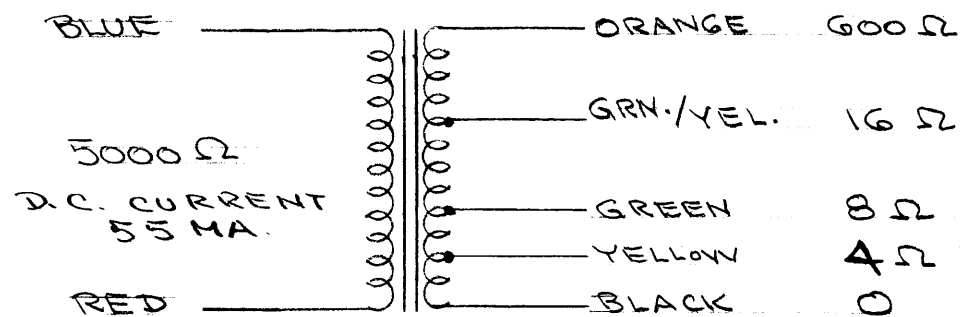
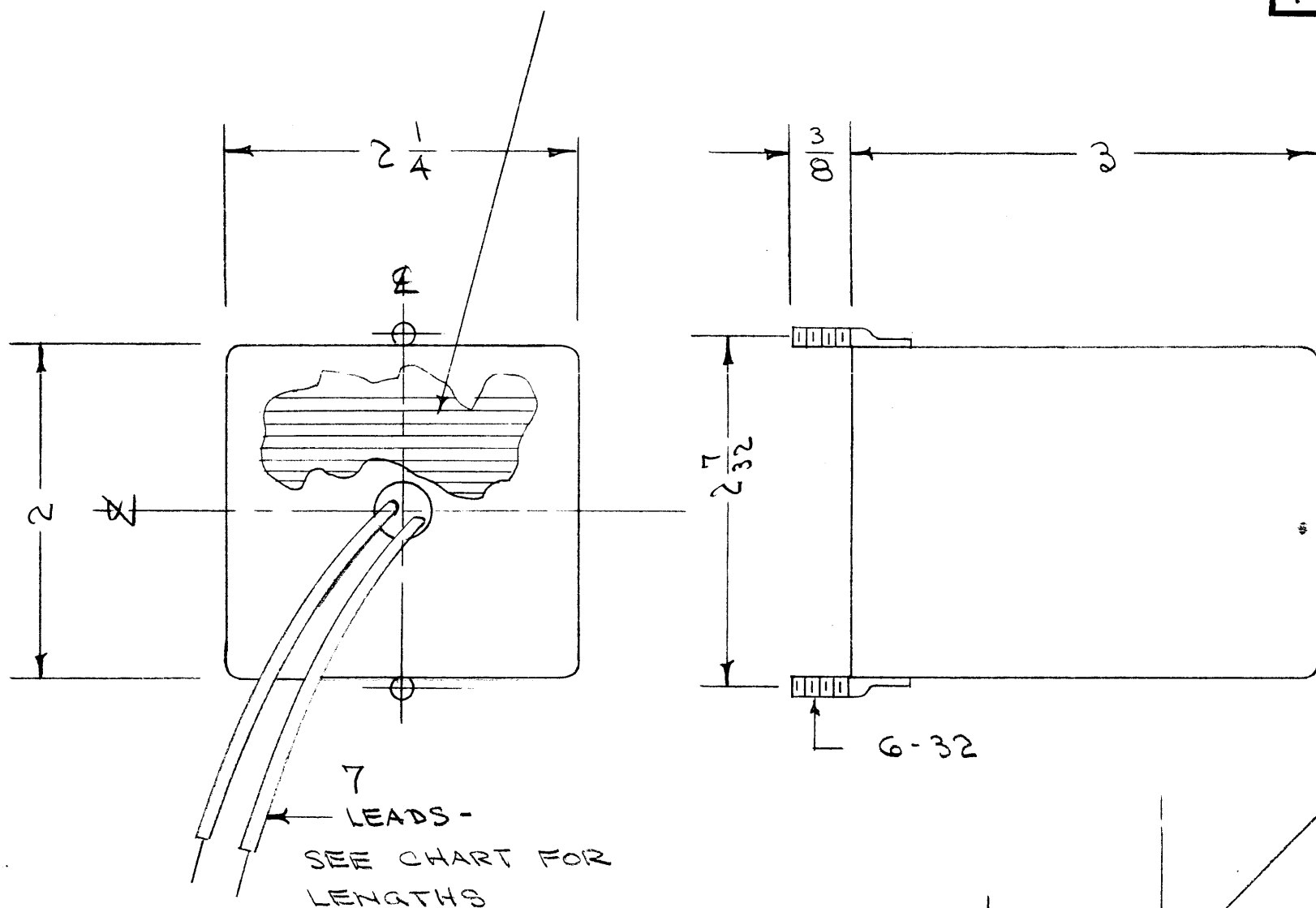
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE			FILTER CHOKE	
MATERIAL		WEIGHT PER PC.		
TYPE & TEMPER			CD. 3-8-55	
HEAT TREAT. SPEC.			DRAWN	ELEC. DES. APP.
S-115 T.M.C. GREY			CHK	G.T.O
FINISH & SPEC. NO.			CHECKED	FINAL APPROVAL
				TF-158 A

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

TF-159 B

NOTE: LAMINATIONS TO PARALLEL 2 1/4" SIDE.



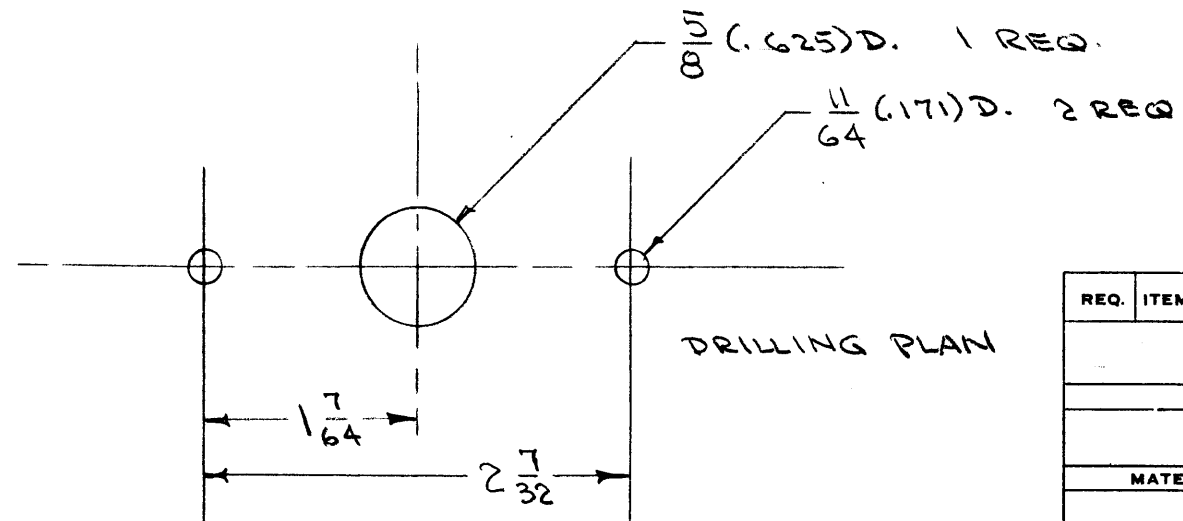
OUTPUT  
5 AUDIO  
WATTS MAX.

AUDIO RESPONSE - ±3db. 100-10,000 ~  
INSULATION TEST - 1000 V.

LEAD LENGTHS

COLOR	LENGTH
BLUE	6 1/2"
RED	6"
ORANGE	9"
GRN/YEL.	9"
GREEN	8 1/2"
YELLOW	8"
BLACK	7"

LEAD LENGTHS SHOWN ARE TOTAL LENGTHS. STRIP 3/4" & TIN

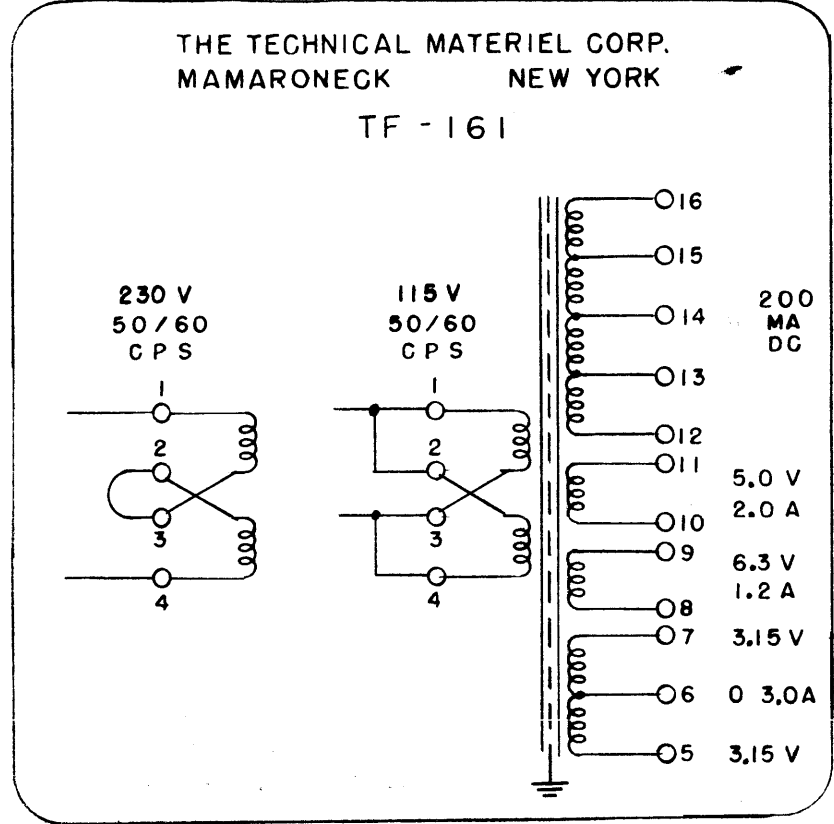
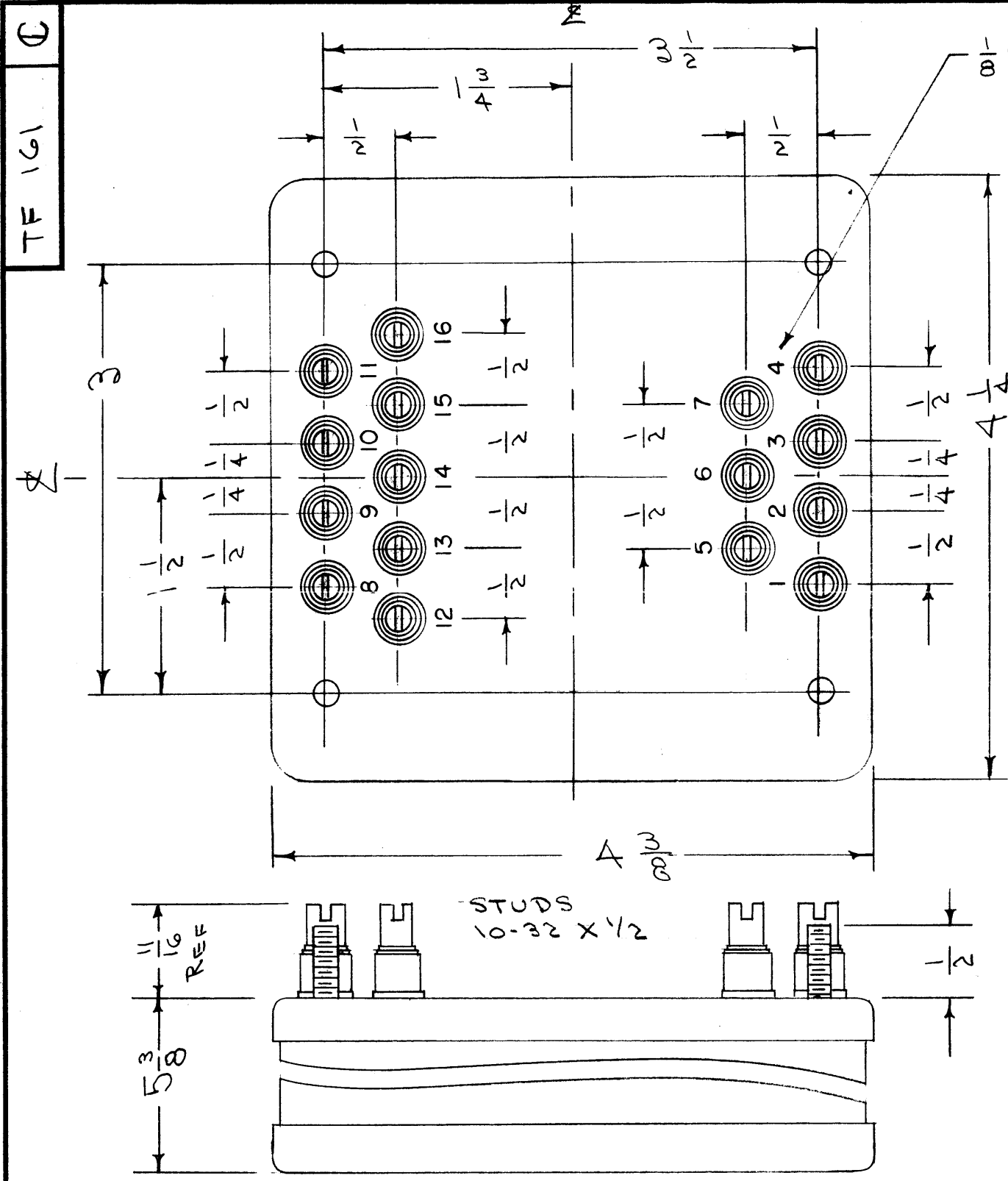


ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	LEAD LENGTHS ADDED	8/8/56	2	EDS	WBC	PLK
A	2	LAMINATION NOTE ADDED	5/10/56	1	EDS	HH	A.J.S.
A	1	2" WAS 2 1/8"					

TOLERANCES		SCALE:
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ±1/64 ANGULAR DIM. ±	A
DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.		

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
1	GPR	297		3-8-55
USED ON				

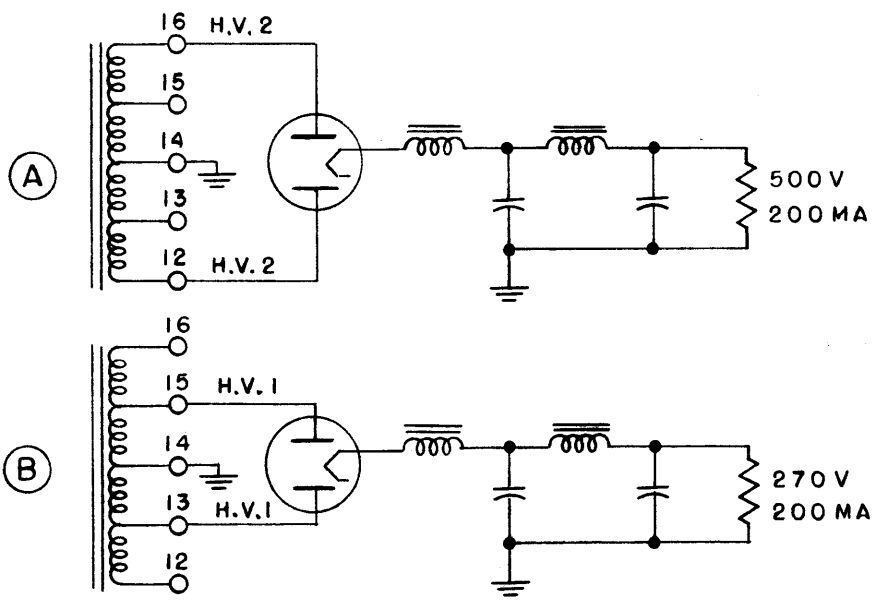
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
			TRANSFORMER, OUTPUT	
			C.D.D. 2-8-55	
			HEAT TREAT. SPEC.	
			5-115 TMC GREY.	
			FINISH & SPEC. NO.	
			DRAWN HH	
			ELEC. DES. APP.	
			MECH. DES. APP.	
			G.T.O	
			CHECKED	
			FINAL APPROVAL	
			TF-159	B



SCHEMATIC DIAGRAM TO APPEAR ON END OPPOSITE TERMINALS

NOTE:  
WINDINGS #3 + 4  
MUST BE SO PHASED  
THAT 12.6V WILL APPEAR  
ACROSS TERMINALS 5 + 9  
IF TERMINALS 7+8 ARE  
JOINED.

**ELECTRICAL SPECIFICATIONS-**  
TRANSFORMER TO BE USED IN CIRCUIT AS SHOWN.  
PRIMARY - WHEN PARALLEL CONNECTED - 115 V. AC AT 50/60 CPS. SINGLE PHASE  
WHEN SERIES CONNECTED - 230V. AC AT 50/60 CPS. SINGLE PHASE  
SECONDARY - FOUR WINDINGS AS FOLLOWS:  
1 - VOLTAGE TO BE SUCH AS TO OBTAIN 500 V. DC AT 200 MA. (DIAGRAM "A"), OR WHEN TAPS ARE USED, 270 V. DC AT 200 MA. (DIAGRAM "B")  
2 - 5.0 VAC AT 2.0 AMPS.  
3 - 6.3 VAC AT 1.2 AMPS \*  
4 - 6.3 VAC AT 3.0 AMPS. CENTER TAPPED.  
5 - ELECTROSTATIC SHIELD SHALL BE INSERTED. (FOIL)



**MECHANICAL SPECIFICATIONS-**  
CASE - HERMETICALLY SEALED IN RECTANGULAR STEEL CASE  
FINISH - S-115 TMC SMOOTH GRAY ENAMEL EXCEPT STUD END.  
SIZE - 4/4 x 4 3/8 x 5 3/8 HIGH, EXCLUSIVE OF TERM.

TUBES — 5R4GY  
COILS — 10 HY, 85 Ω  
CAPACITORS — 4 MFD.

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
C		ON SPECS - SECONDARY WIND. NO. 3, 1.2A WAS 1.3A	7-12-66	16533		JCA	JCB
B	1	NOTE ADDED (MIL-T-27-A)	6-29-60	2572		JCB	JCB
A	2	4 1/4 WAS 4 3/8 4 3/8 WAS 4 1/4	10/24/55	1		JCB	ATT

TOLERANCES: DEC. DIM. ±, FRAC. DIM. ±, ANGULAR DIM. ±

SCALE: A

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

1	RTP-2			10-22-58
1	RTM-2			10-16-58
1	RTP			5-23-58
1	RTM			5-23-58
1	SBE-2			5-5-58

USED ON

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
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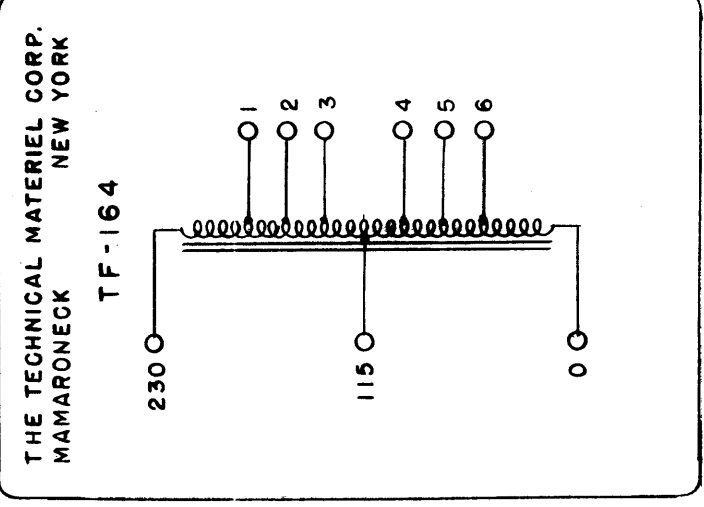
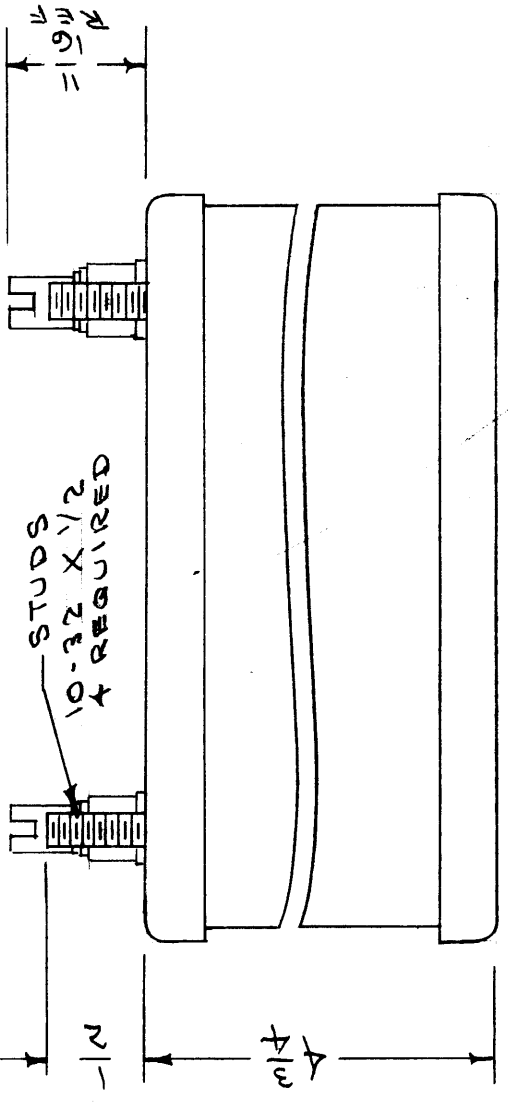
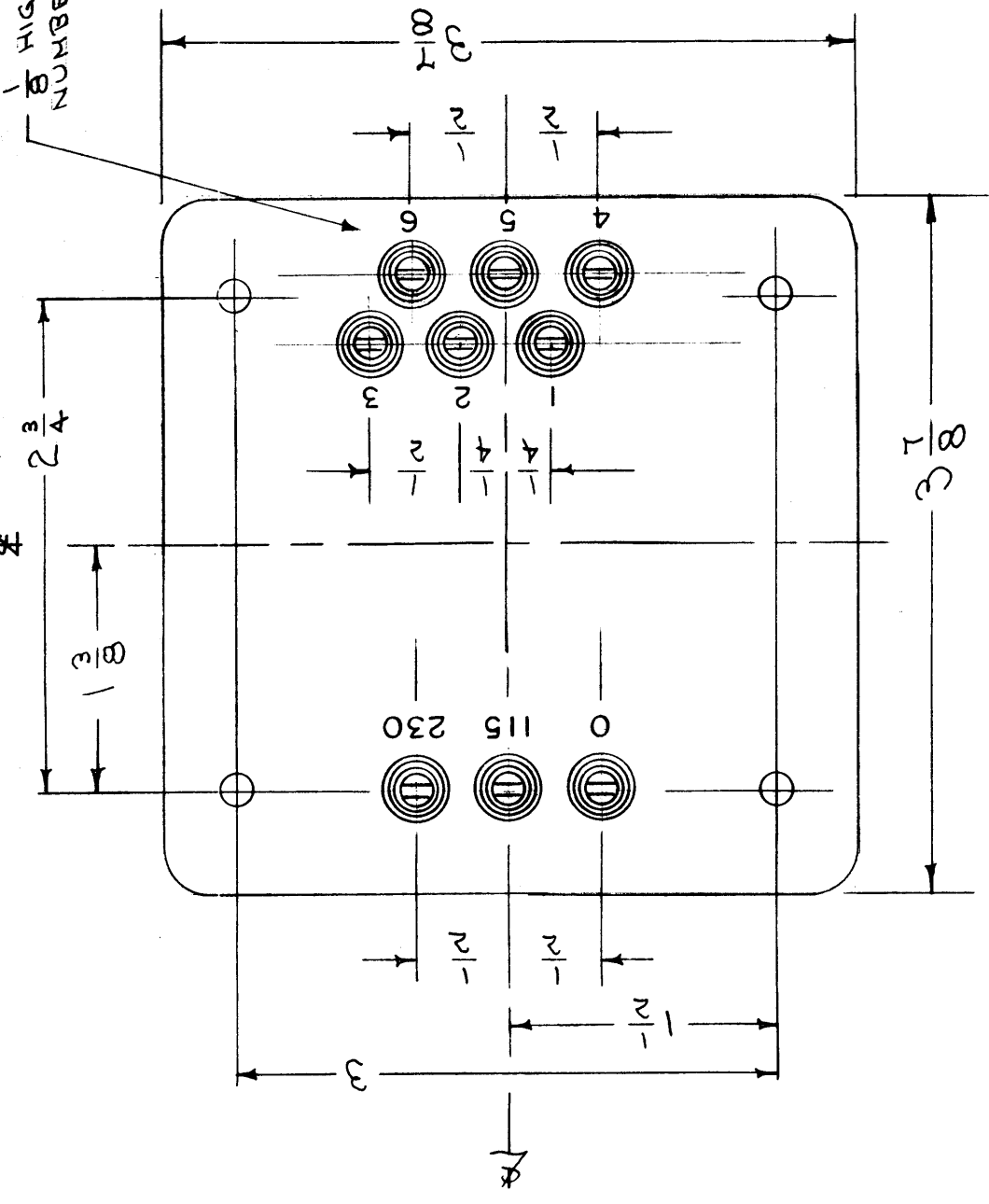
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		TRANSFORMER, POWER	
		MATERIAL	
		TYPE & TEMPER	
		HEAT TREAT. SPEC.	
		FINISH & SPEC. NO.	

CDR 6/2/55	JCB	A. J. J.
D. I. P.	JCB	TF 161

TF-164 A

1/8" HIGH METAL STAMP NUMBERING AS SHOWN

SCHEMATIC DIAGRAM TO APPEAR ON END OPPOSITE TERMINALS.



**ELECTRICAL SPECIFICATIONS**

AUTOTRANSFORMER TAPPED TO PROVIDE FOR LINE VOLTAGE ADJUSTMENT  
 INPUT - 115 V 50/60 CPS 230 V 50/60 CPS SINGLE PHASE  
 OUTPUT - SEVEN POSITIONS TAPPED IN 5 V. STEPS FROM 100 V. TO 130 V. ANY ONE TAP (1,2,3,4,5,6) SHALL BE CAPABLE OF DELIVERING 3A TO LOAD

**MECHANICAL SPECIFICATIONS**

CASE - HERMETICALLY SEALED RECTANGULAR STEEL CASE.  
 FINISH - S-115 T.M.C. SMOOTH GREY ENAMEL. (EXCEPT END)  
 SIZE - 3 1/8" X 3 1/8" X 1/4" HIGH EXCLUSIVE OF TERMINALS.

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27A EXCEPT THAT MIL SPEC T-27A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

ISSUE ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
A 1	NOTE ADDED (MIL T-27A)	6-29-40	2572			16

SCALE: A

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		AUTOTRANSFORMER LINE VOLTAGE ADJUST	
		CDR. C-1-55 J.M.D.	
		DRAWN O.I.P.	
		CHECKED A.J.J.	
		TYPE & TEMPER HEAT TREAT. SPEC. 10-22-58	
		FINISH & SPEC. NO. 5-23-58	
		PROJECT N. MODEL	
		ASSY. NO. DATE	
		USED ON	

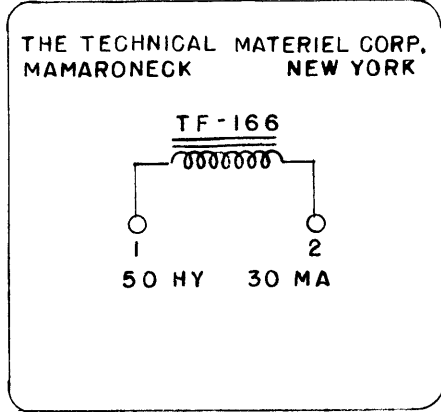
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		AUTOTRANSFORMER LINE VOLTAGE ADJUST	
		CDR. C-1-55 J.M.D.	
		DRAWN O.I.P.	
		CHECKED A.J.J.	
		TYPE & TEMPER HEAT TREAT. SPEC. 10-22-58	
		FINISH & SPEC. NO. 5-23-58	
		PROJECT N. MODEL	
		ASSY. NO. DATE	
		USED ON	



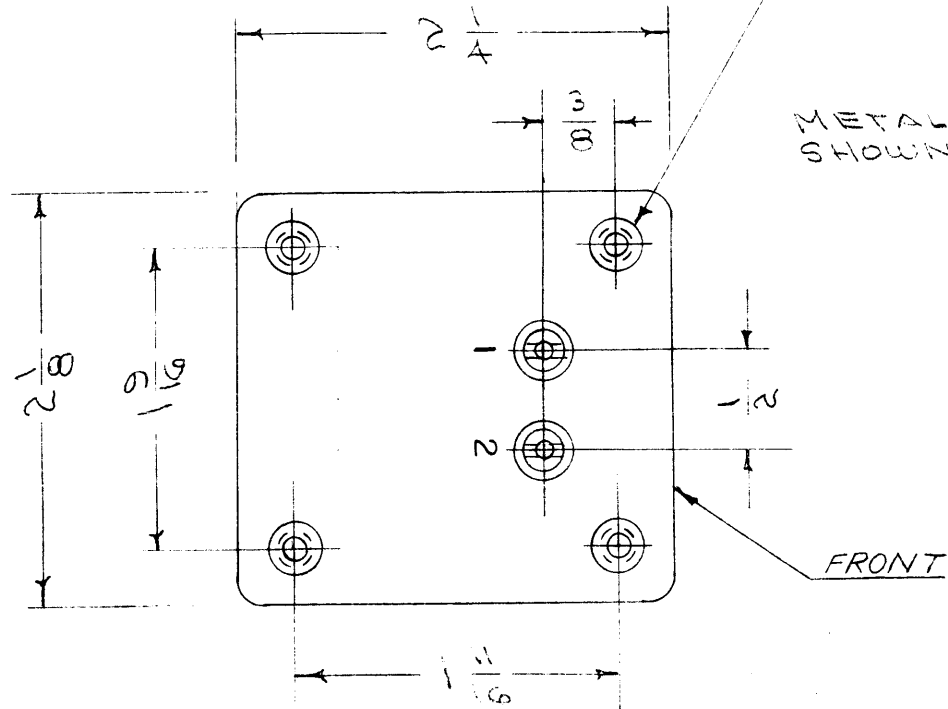
IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

TF-166 A



SCHEMATIC DIAGRAM TO APPEAR ON END OPPOSITE TERMINALS

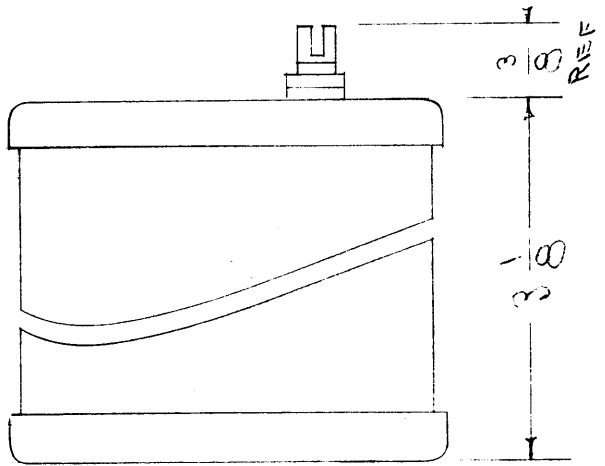


INSERTS 6-32 X 3/8 DEEP 4 REQ.

METAL STAMP AS SHOWN 1 & 2

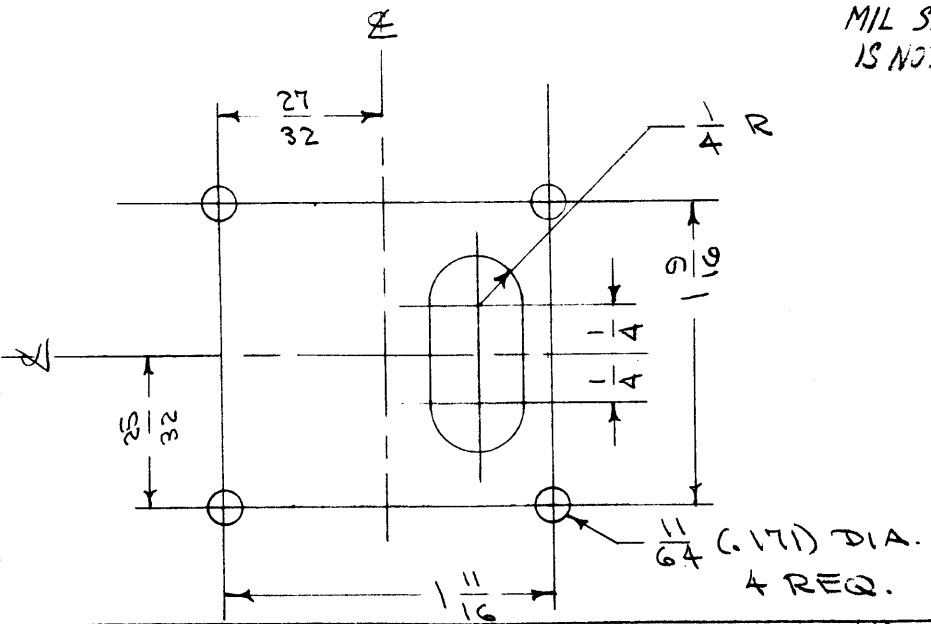
FRONT

ELECTRICAL SPECIFICATIONS  
 INDUCTANCE - 50 HY. AT FULL CURRENT RATING.  
 D.C. RES. - APPROX. 800 Ω.  
 D.C. CURRENT RATING - 30 MA.  
 INSULATION - WINDING TO BE INSULATED FOR 1500 V.



MECHANICAL SPECIFICATIONS  
 CASE - HERMETICALLY SEALED RECTANGULAR STEEL CASE.  
 FINISH - 8-115 T.M.C. SMOOTH GRAY ENAMEL (EXCEPT TERM. END).  
 INSERTS - 6-32 X 3/8 DEEP.  
 SIZE - 2 1/8 X 2 1/4 X 3/8 HIGH EXCLUSIVE OF TERMINALS.

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

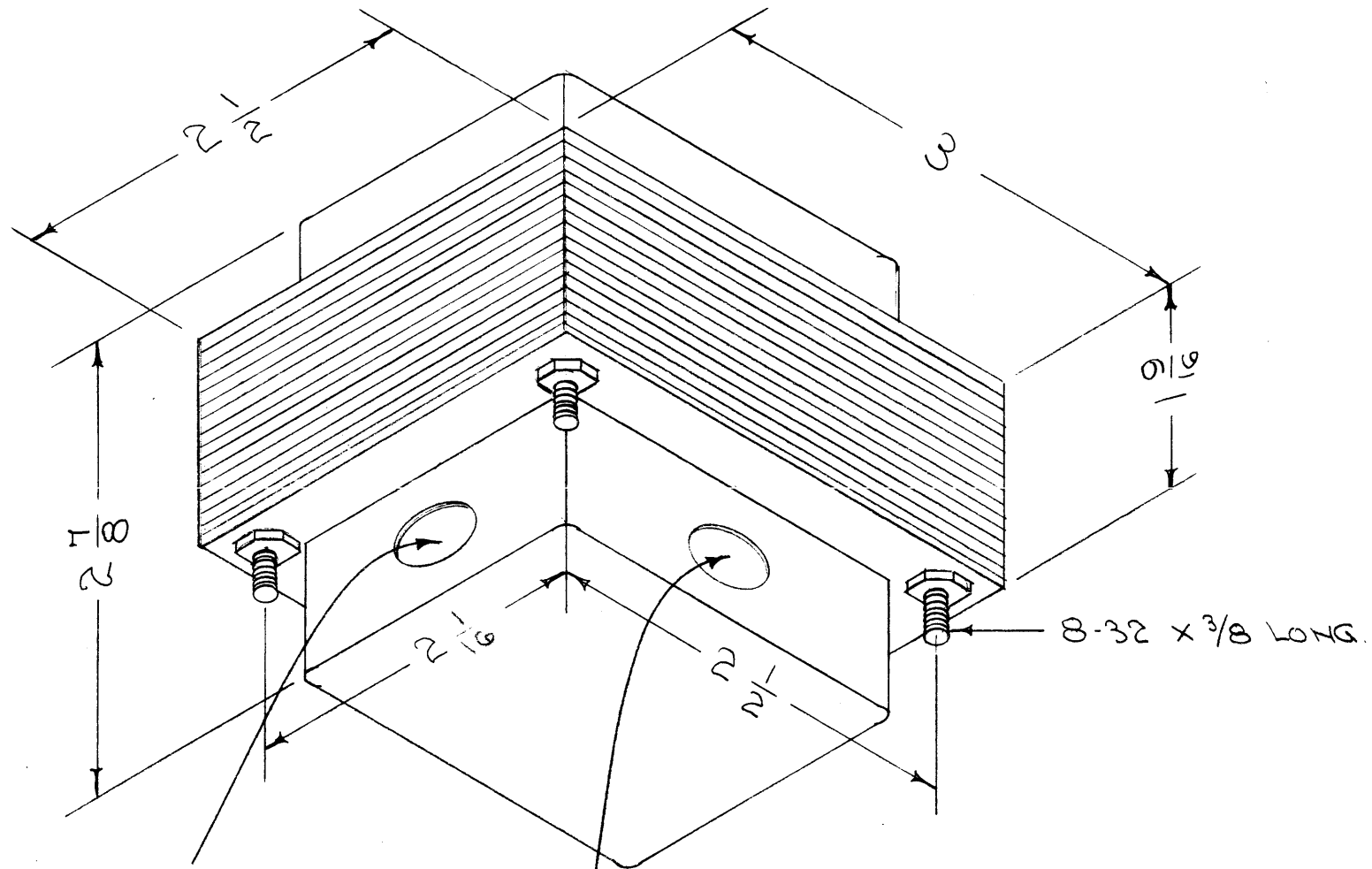


A	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572			
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE: A					
ALL OTHERS		DEC. DIM. ± 1/64 FRAC. DIM. ± 1/64 ANGULAR DIM. ±					
		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					

RTP-2	AX-104	10-22-55
GPT-10K		
RTC		
REQ. PER UNIT	MODEL	PROJECT NO.
		ASSY. NO.
		DATE
	USED ON	

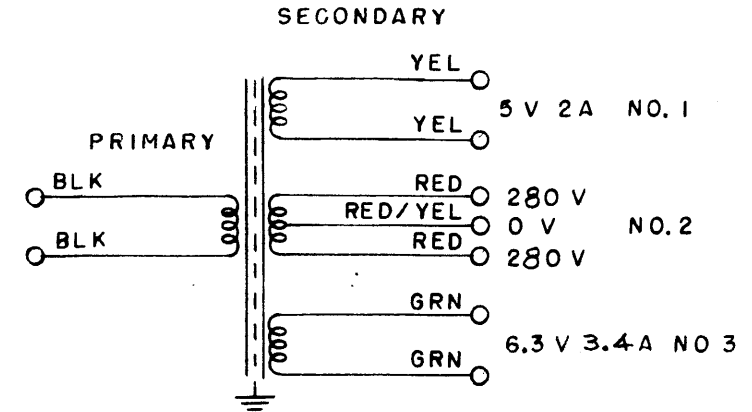
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE		REACTOR, FILTER	
MATERIAL		WEIGHT PER PC.	
TYPE & TEMPER		CDD. 10-4-55	O.I.P. 10/16/55
HEAT TREAT. SPEC.		DRAWN	ELEC. DES. APP. MECH. DES. APP.
FINISH & SPEC. NO.		CHECKED	FINAL APPROVAL

TF-166



6 LEADS 3 1/2" LONG EACH  
 2 RED  
 2 GREEN  
 2 YELLOW

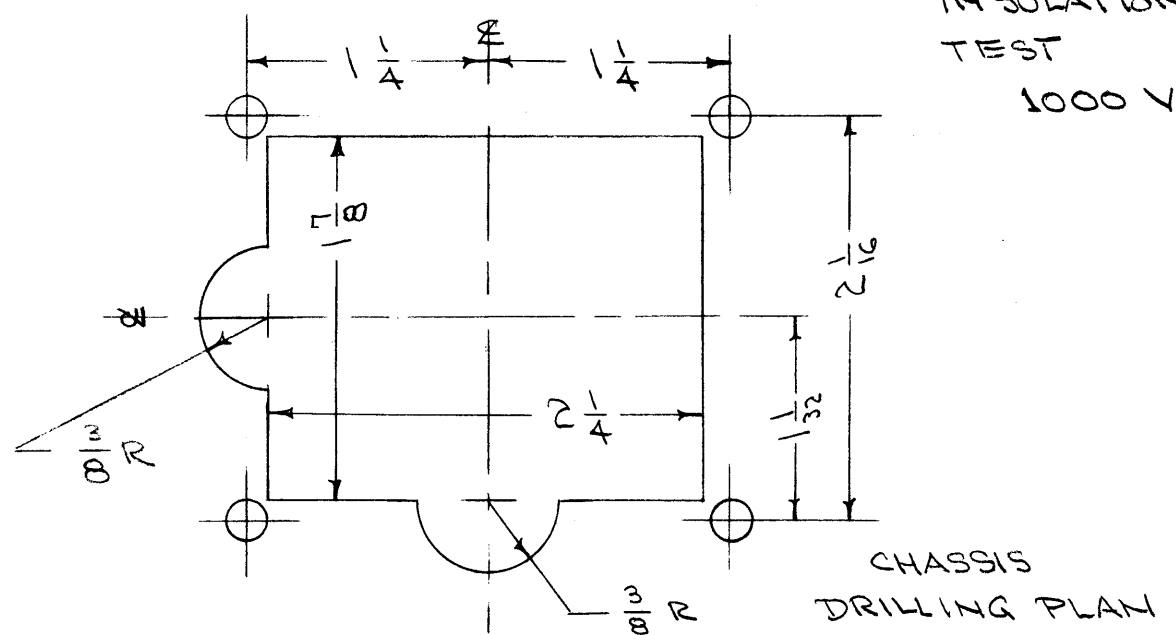
3 LEADS 3" LONG EACH  
 2 BLACK  
 1 RED/YELLOW



ELECTRICAL SPECIFICATIONS

ELECTRO STATIC SHIELD.  
 PRIMARY - INPUT 105/125 V 50/60 ~ (117V. NOM.)  
 SECONDARY - NO. 1 - 5V @ 2A.  
 NO. 2 - 280-0-280 V. RMS WITH FULL WAVE RECT. 5Y3G TO CAPACITOR INPUT FILTER. 280V DC AT 90 MA AT FILTER INPUT.  
 NO. 3 - 6.3V @ .3.4A.

INSULATION TEST  
 1000 V.



CHASSIS DRILLING PLAN

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	FINISH ADDED	7/2/56	2	CSO	##	##
A	2	3.4A was 2.5V/90MA was 60	6/14/56	1	JAL	##	##
A	1	280V was 250V					

TOLERANCES: DEC. DIM. ±, FRAC. DIM. ± 1/64, ANGULAR DIM. ±

SCALE: A

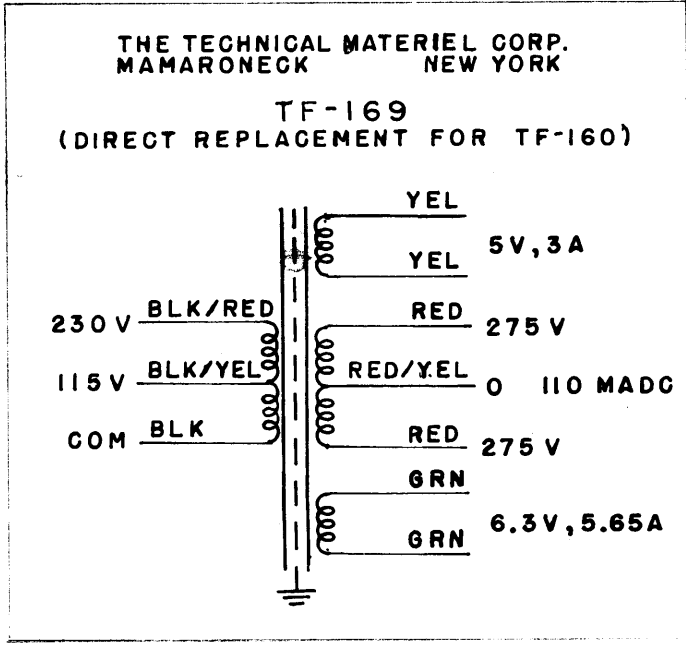
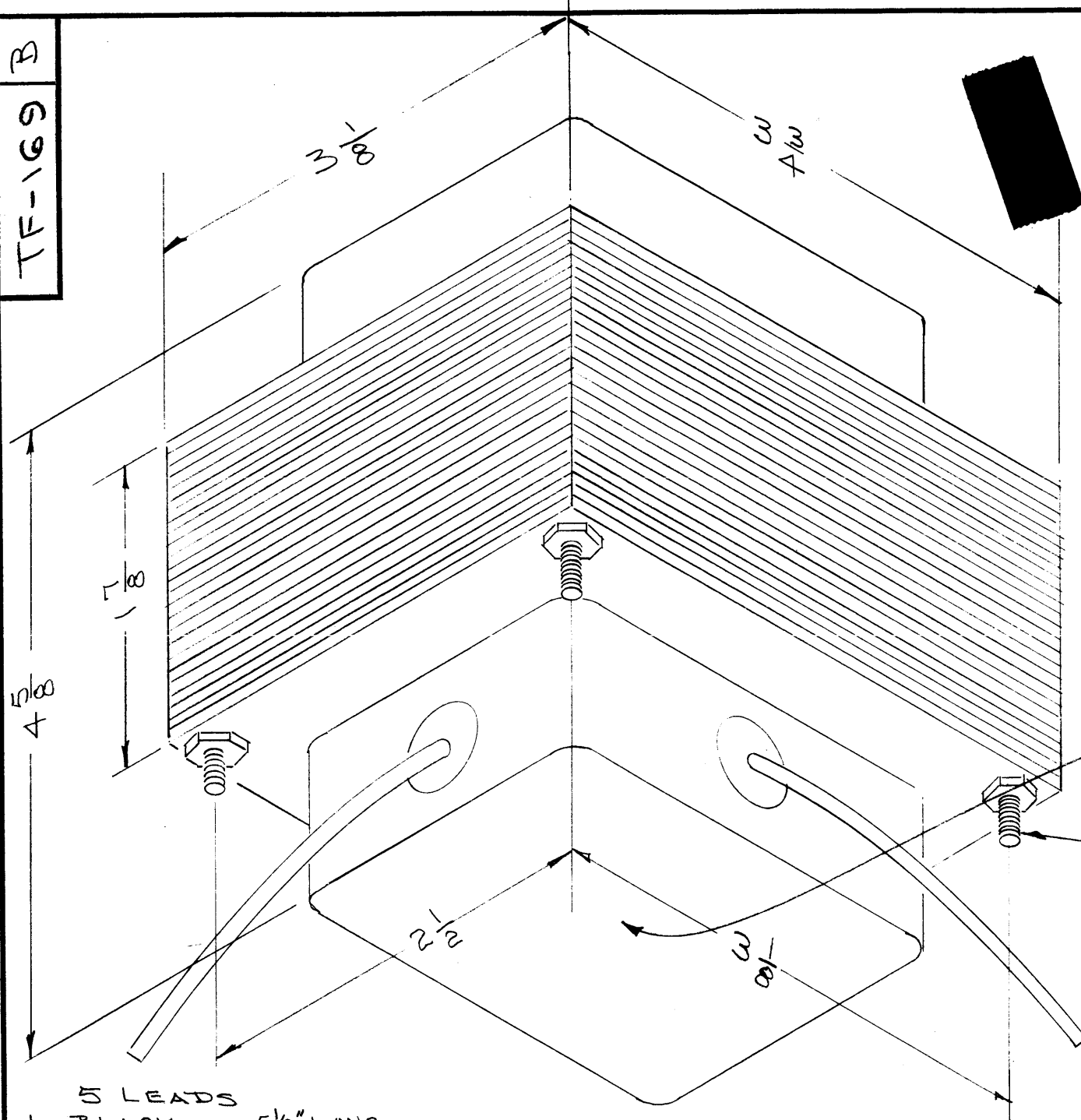
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
1	G 8 B-1	459		5-17-56

USED ON

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
STOCK SIZE		TRANSFORMER, POWER	
MATERIAL			
TYPE & TEMPER		DRAWN	CHECKED
HEAT TREAT. SPEC.		CSO 5/17/56	JAL
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
S115 TMC SMOOTH GRAY.		##	23
		A. J. J. FINAL APPROVAL	
		TF-168 B	

TF-169 B

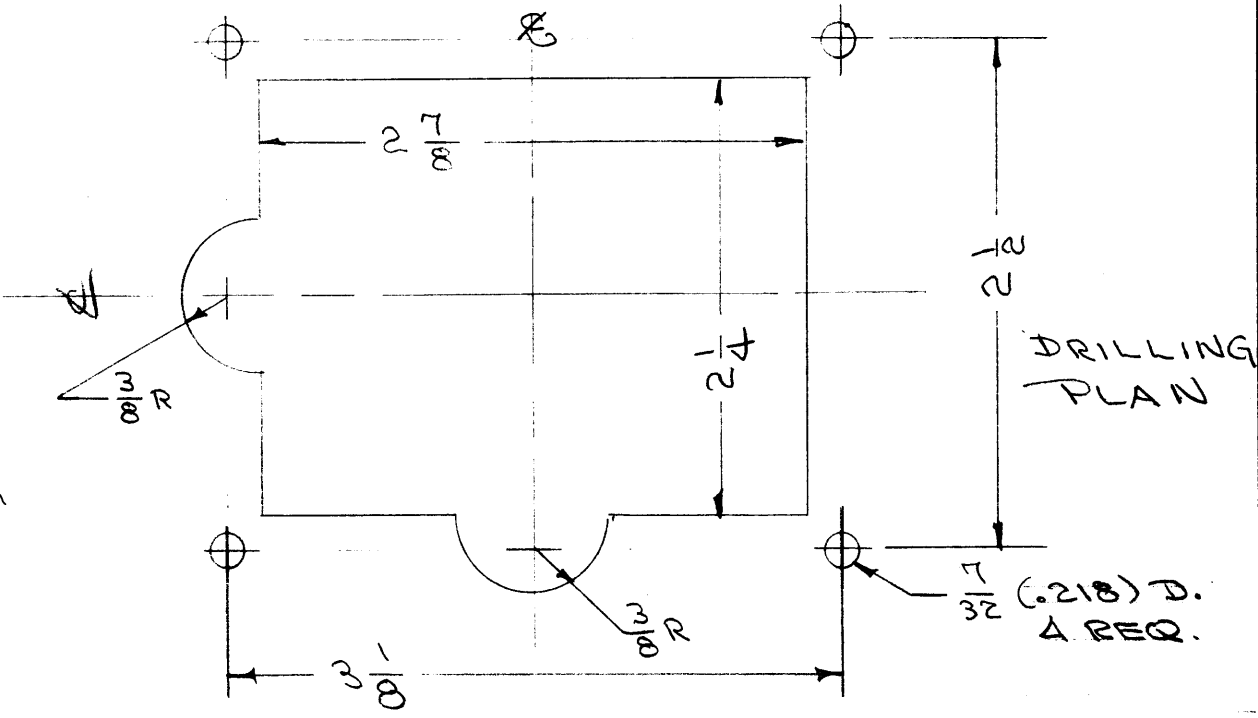


ELECTRICAL SPECIFICATIONS:  
ELECTRO STATIC SHIELD  
PRI. INPUT - 115/230V, 50/60 ~  
SEC - 5V @ 3A  
275-0-275 V RMS WITH  
FULL WAVE RECTIFIER  
BUAG TO CAPACITOR  
INPUT FILTER 275 VDC  
AT 110 MA  
6.3 V @ 5.65 A  
INSULATION TEST - 1000V

SCHEMATIC DIAGRAM TO BE IN BLACK,  
PLACED THIS END.

- 5 LEADS
- 1 BLACK 5 1/2" LONG
  - 1 BLK/YEL 4 1/2" "
  - 1 BLK/RED 4 1/2" "
  - 2 GREEN 4 1/2" "

- 5 LEADS
- 1 RED 5 1/2" LONG
  - 1 RED 4 1/2" "
  - 1 YELLOW 4" "
  - 1 YELLOW 4" "
  - 1 RED/YEL 3 1/2" "



NOTE:  
LEAD LENGTHS SHOWN ARE TOTAL  
LENGTHS, STRIP 3/4" & TIN.

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	SCHEMATIC ADDED	10/15/56	2	CSB	P.L.X.	A.J.J.
A	2	BLK/YEL & BLK/RED were 9"	7/9/56	1	JAL	P.L.X.	A.J.J.
A	1	BLACK WAS 9"					

TOLERANCES: DEC. DIM. ±, FRAC. DIM. ±, ANGULAR DIM. ±

SCALE: A

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

1	GPR	297	9-7-56
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.
USED ON			

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
STOCK SIZE		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
MATERIAL		TRANSFORMER, POWER	
TYPE & TEMPER		DRAWN	CHECKED
HEAT TREAT. SPEC.		FINAL APPROVAL	
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
(S115) TMC GRAY		P.L.X.	U.A.
		TF-169 B	

DEC. DIM. $\pm$		TOLERANCES	
FRAC. DIM. $\pm 1/64$		CHANGED FROM	
ANGULAR DIM. $\pm$		ISSUE ITEM	
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.		E 1	
REMOVE ALL BURRS AND SHARP EDGES		F 1	
		G 2	
SCALE:		DATE	
		11/14/57	
		11/26/57	
		12/20/57	
		CH. NO.	
		5	
		6	
		7	
		DRAFTS	
		K	
		K	
		K	
		CHECKER	
		K	
		K	
		ENG. APP.	
		K	
		K	

REQ. PER UNIT		PROJECT NO.		USED ON	
1		7LI-1		A-1438	
MODEL		ASS'Y. NO.		DATE	
7LI-1		A-1438		11-14-57	
FINISH & SPEC. NO.		TYPE & TEMPER		MATERIAL	
		HEAT TREAT. SPEC.			
ELEC. DES. APP.		RE-DRAWN		STOCK SIZE	
MECH. DES. APP.		CHECKED			
TF-171		K 11/14/57			
G		A.J.		ISOLATION	
DESCRIPTION		PART NO.		REQ. ITEM	
THE TECHNICAL MATERIEL CORP.					
MAMARONECK, NEW YORK					
TRANSFORMER,					

Specifications:

Capacity - 20 mfd. or less between winding #1 & winding #2

Winding leads must be brought out on opposite sides of core.

All leads stripped 3/8" and tinned.

Mandrel size - 2 5/8" x 3 1/8"

Margin - 1/8"

Insulation width - 15/16"

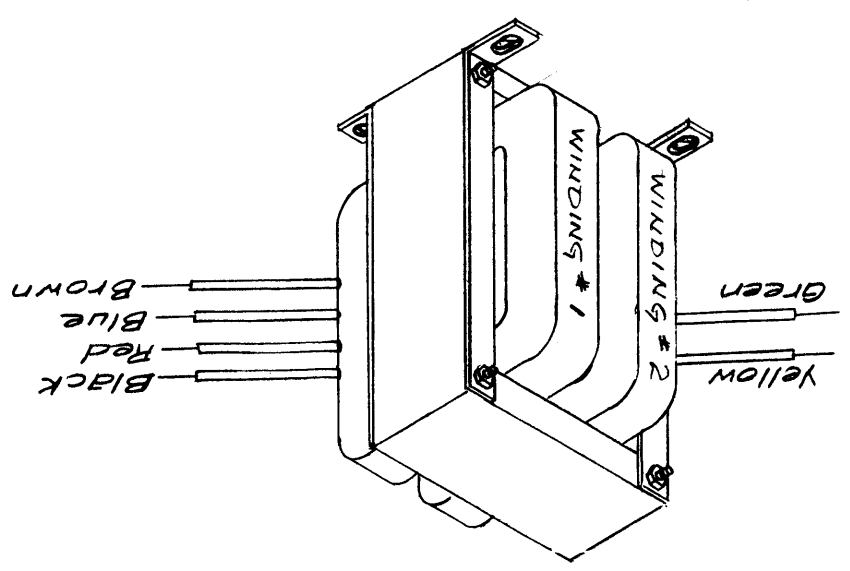
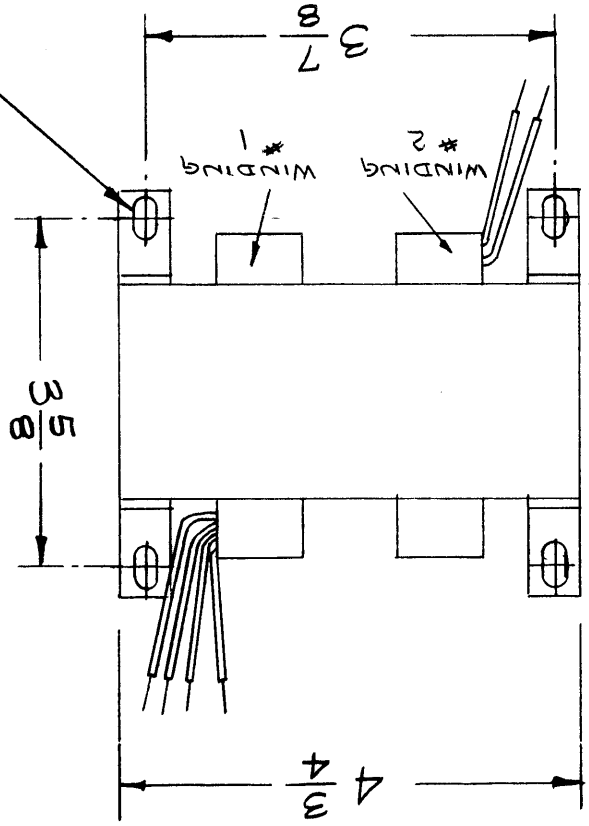
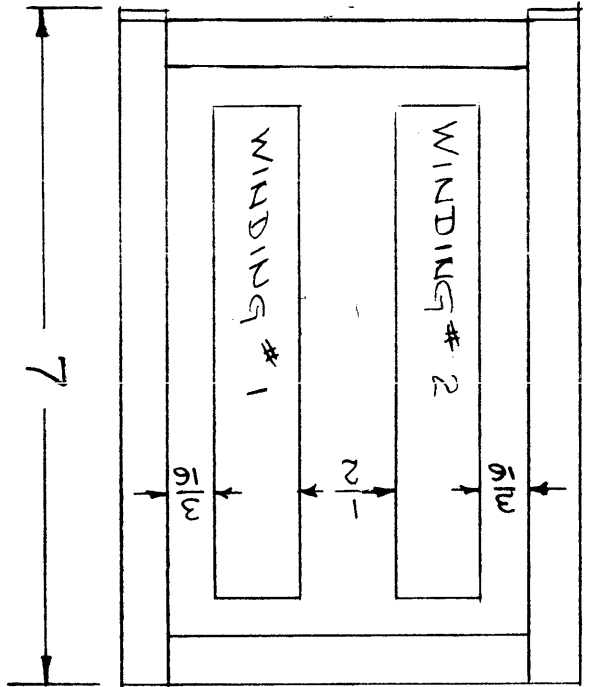
Insulation form - .020" armo paper.

Insulation interlayer - .010" armo paper.

Insulation overlay - .020" armo paper.

Core size - EI-19, .014" silicon.

Impregnate transformer with varnish before lead are tinned.



VOLT.	TURNS	COLOR	LENGTH
120V	Common 0	Black	6"
108V	184	Red	4 1/2"
112V	190	Blue	3 1/2"
115V	196	Brown	3"
120V	Common 0	Yellow	6 1/2"
120V	216	Green	5 3/4"

WINDING DATA #1	WINDING DATA #2	VOLTAGE	FREQ.	WIRE SIZE	TURNS/LAYER	LAYERS	TURNS	TAPS	LEAD LGTH	WIRE FEED
120	115, 112, 108	18 H.F.	19 H.F.	14	14	14	196	184, 190	SEE CHART II	23 T/IN.
60 CPS	60 CPS	19 H.F.	19 H.F.	16	14	14	216	NONE		23 T/IN.

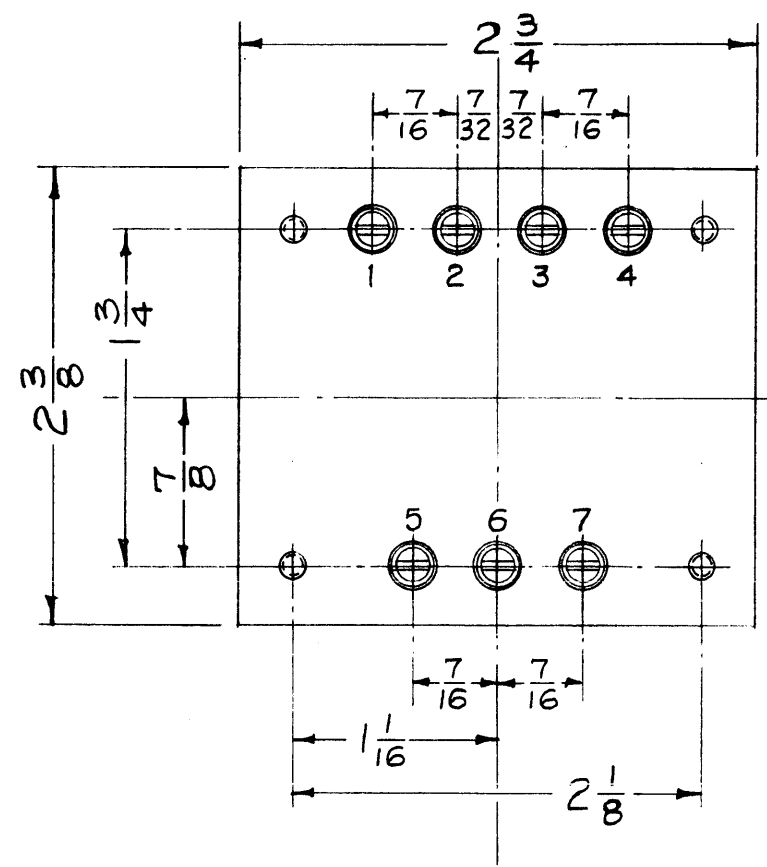
TF-171 G

TF-176 B

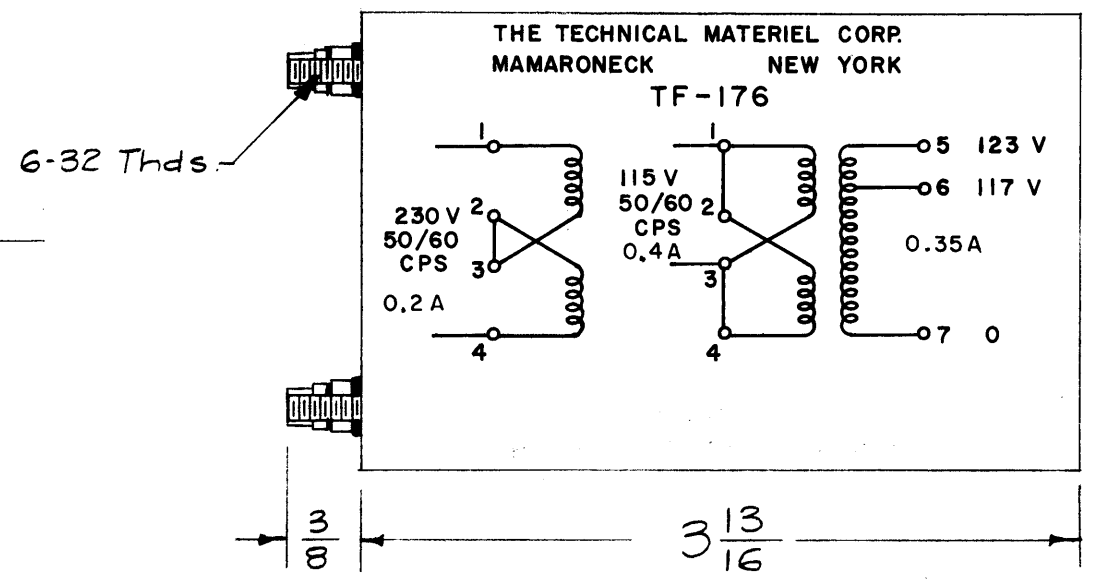
NOTICE TO PERSONS RECEIVING THIS DRAWING

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Property of:  
THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK, NEW YORK



Stamp Case as Shown - Black Gothic



NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

**ELECTRICAL DATA**  
 PRIMARY — 115/230 V, 50/60 CPS.  
 SECONDARY — 117/123 V. RMS. 40 W. @ 117 V. or 42 W @ 123 V.  
 INSULATION — Windings Insulated for 1000 V.  
 HEAT RISE — Max. 40° C. Rise.

**MECHANICAL DATA**  
 CASE — Hermetically Sealed in Rectangular Steel Case. MIL Type GA  
 FINISH — Smooth Grey Enamel (TMC Spec. S-115)  
 TERMINALS — 3/8" Long O/A. Solder Lug Terminals and Ceramic Bushings.

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572			
A	1	AMPS ADDED TO STAMPING DIAGRAM	3/27/59				

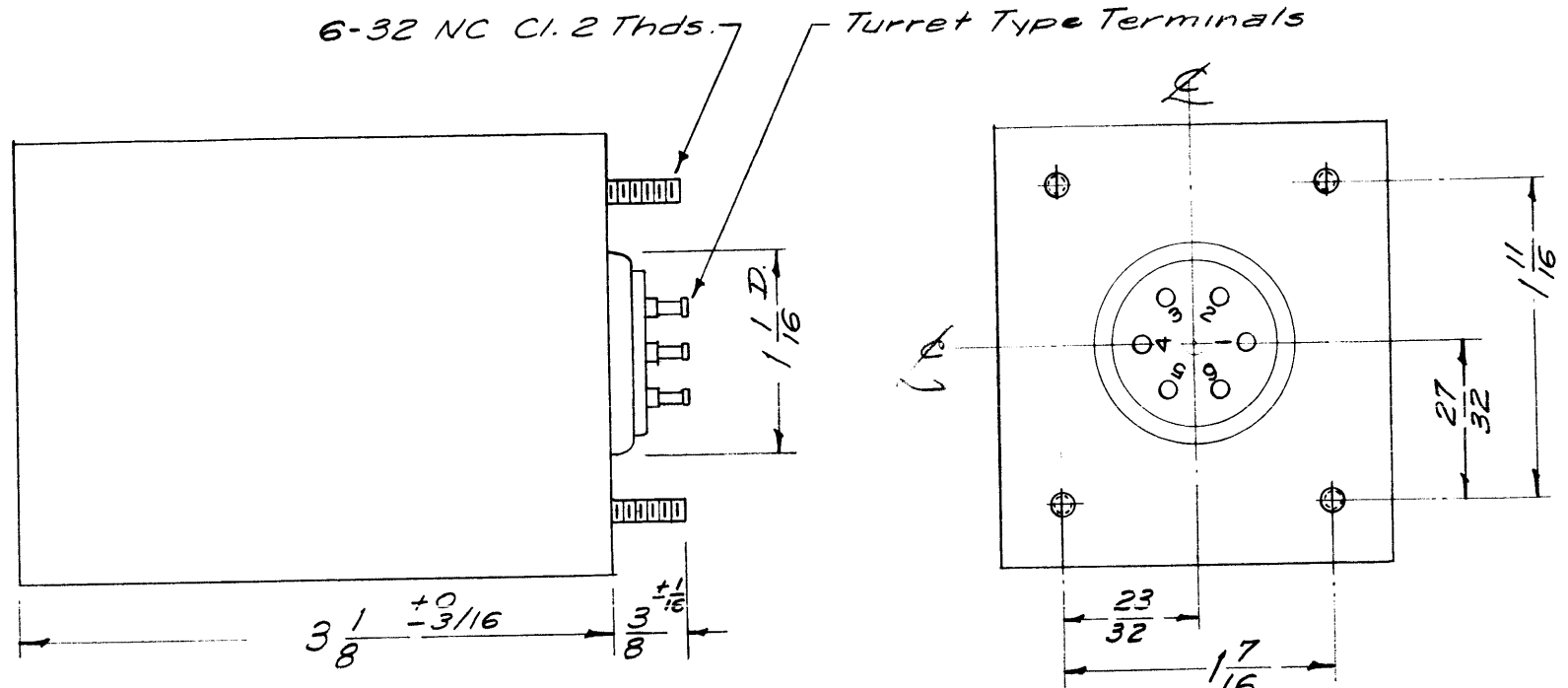
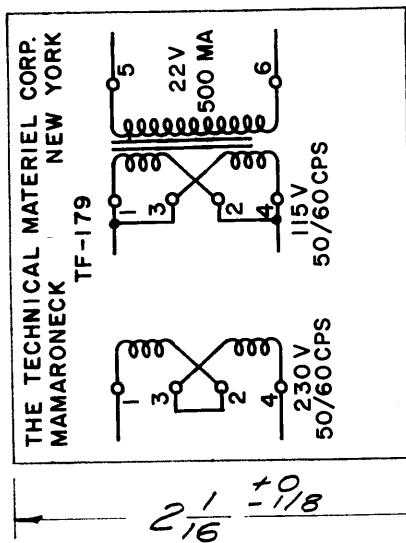
TOLERANCES		SCALE: FULL	
DEC. DIM. ±	A	MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES	
FRAC. DIM. ± 1/64			
ANGULAR DIM. ±			

1	ATS-MCU			12-20-57
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
USED ON				

REF-BTC # 3256

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
✓		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
✓		TRANSFORMER, POWER, STEP-UP	
✓			
✓		16 <sup>12/20/57</sup>	
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
✓			
FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.	
			TF-176 B

TF-179 B



NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED

**ELECTRICAL SPECIFICATIONS:**  
 Primary - 115/230 VAC, 50/60 CPS, Single Phase.  
 Secondary - 22 V. RMS at 500 MA. [for bridge rectified load]  
 Insulation - Winding shall be insulated for 1500 V.

**MECHANICAL SPECIFICATIONS:**  
 Case - MIL Type FA, hermetically sealed, steel.  
 Finish - TMC Smooth Grey Enamel (5115), Except Terminal End.  
 Size O/A - 2 1/16 x 2 5/16 x 3 1/8 high, excluding studs and terminals.  
 Stamping - Terminals shall be metal stamped 1 to 6 as shown. Opposite end shall be rubber stamped as shown.

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Property of:  
 THE TECHNICAL MATERIEL CORPORATION  
 MAMARONECK, NEW YORK

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	NOTE ADDED (MIL T-27A)	6-29-50	2572			
A	1	Redrawn - Electrically Same - Case & Mtg. Chgd.	6/24/50	1			

TOLERANCES: DEC. DIM. ± 1/64, FRAC. DIM. ± 1/64, ANGULAR DIM. ±

SCALE: Full

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
1	A-1504			6-24-58

USED ON

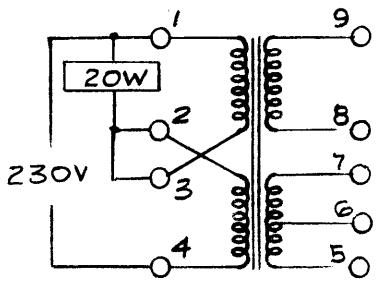
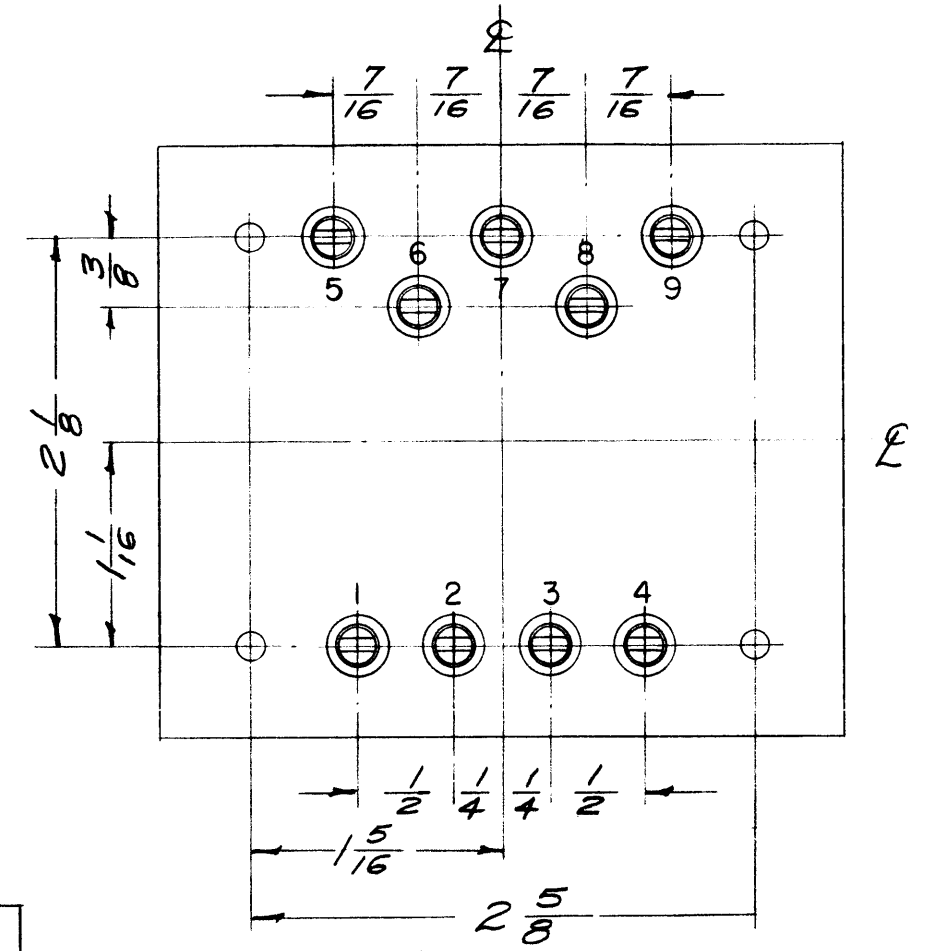
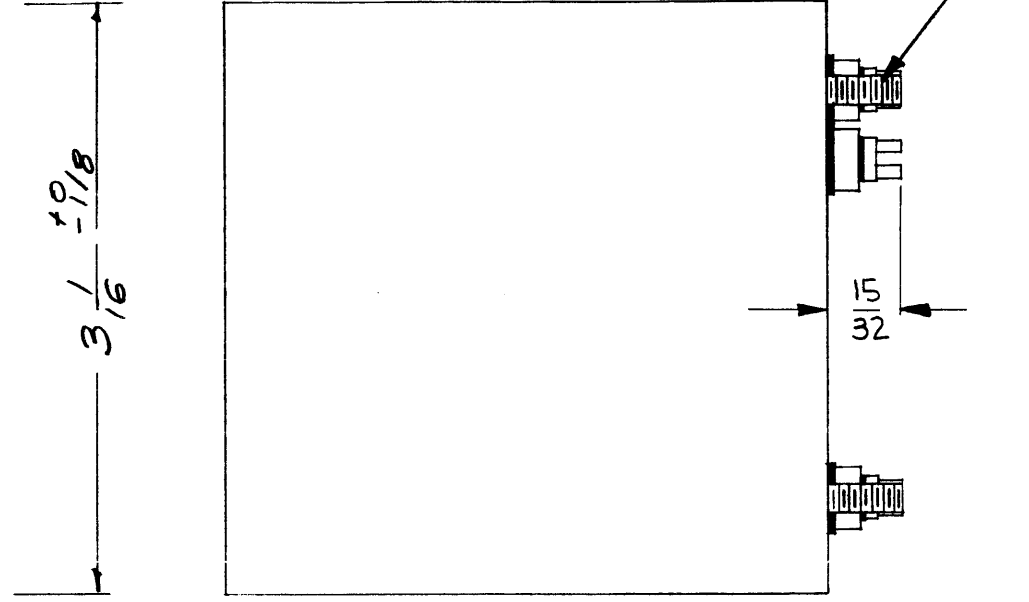
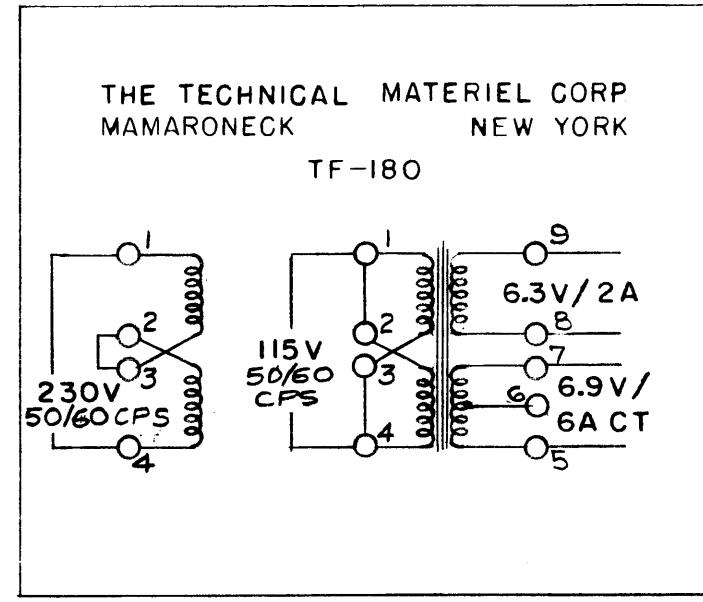
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
//		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
//		TRANSFORMER, POWER, STEP-DOWN	
//		MATERIAL	
//	//	66-24-58	
//	//	TYPE & TEMPER	
//	//	HEAT TREAT. SPEC.	
//	//	FINISH & SPEC. NO.	

DRAWN: H.S.J. CHECKED: H.S.J. FINAL APPROVAL: H.S.J.

ELEC. DES. APP. MECH. DES. APP.

TF-179 B

TF-180 C



NOTE - IMPORTANT  
When Connected to a 230V Line, the primary must also act as an Auto-Transformer and supply an additional load of 20W at 115 VAC as shown.

**ELECTRICAL SPECIFICATIONS:**  
Primary - 115/230 VAC, 50/60 CFS, Single Phase  
Secondary - 6.3V/2A & 6.9V/6A, CT.  
Insulation - Winding shall be insulated for 1500V.

**MECHANICAL SPECIFICATIONS:**  
Case - Rectangular Steel, MIL Type JB Modified, Hermetically Sealed.  
Finish - TMC Smooth Grey Enamel (S115) Except terminal End.  
Size - 3 1/16 x 3 9/16 x 3 high, excluding studs and terminals  
Stamping - Terminals shall be metal stamped 1 to 9 as shown. Opposite end shall be rubber stamped in black as shown.

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

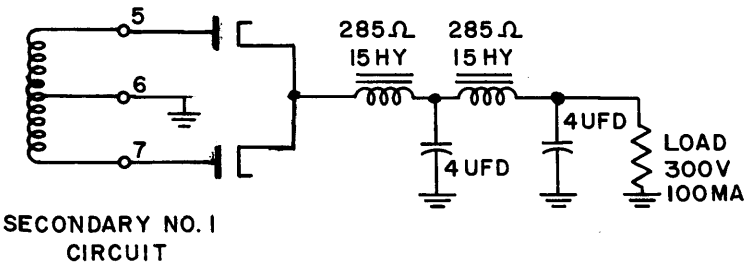
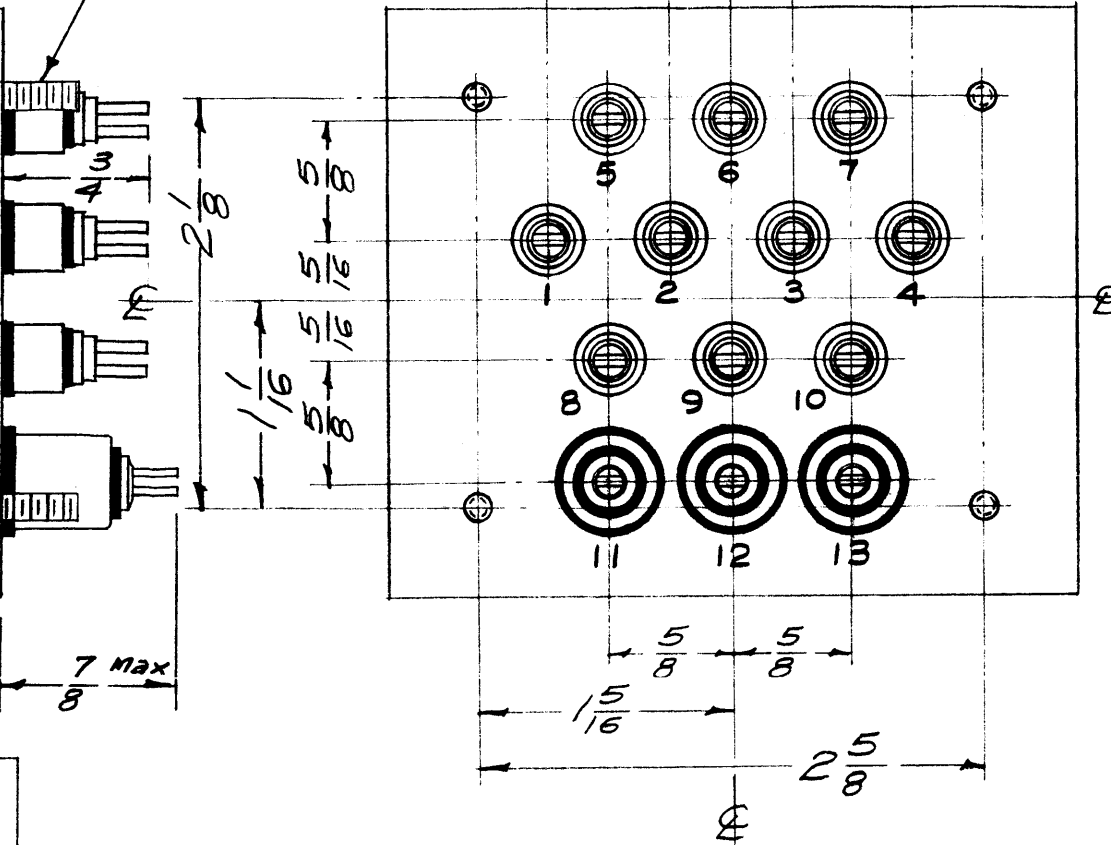
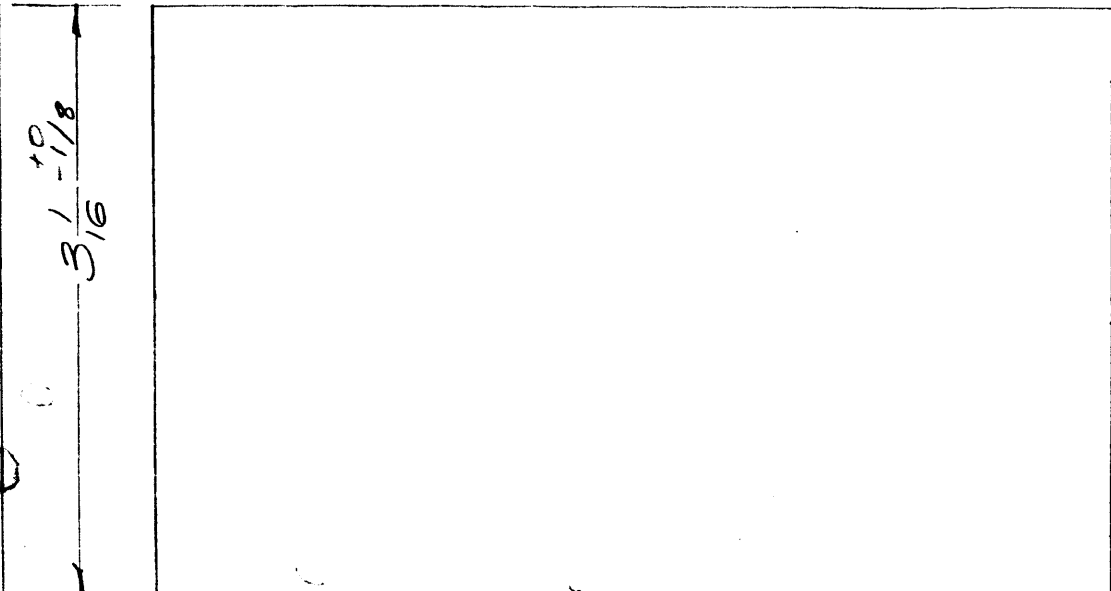
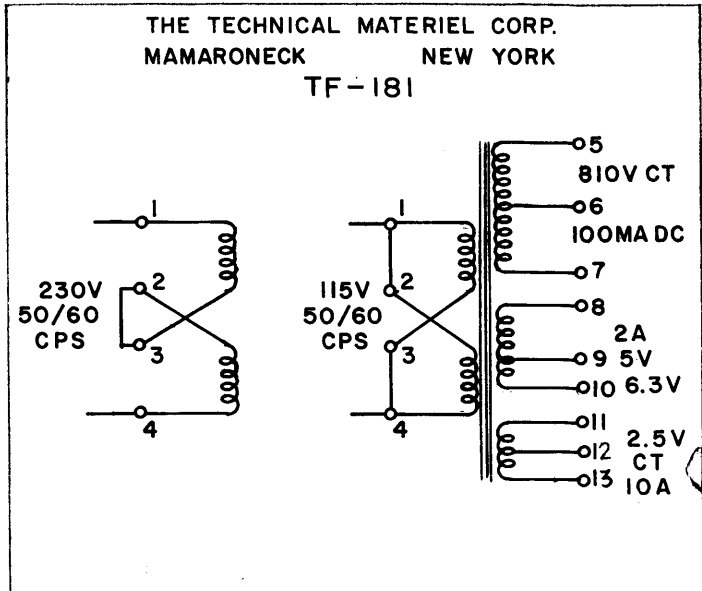
C	1	ADDED 15/32 DIM. 4 REQ'D DELETED 3/8 ± 1/16 DIM	9/26/63	10055	RD	JAY	WJS
B	2	TERM NOS 5 THRU 9 WERE REVERSED 3/8 DIM WAS 3 ± 3/16	6-63	9180	R	JAY	WJS
A	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572	RD		HS
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE: FULL				
DEC. DIM. ±			MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES				
FRAC. DIM. ± 1/64							
ANGULAR DIM. ±							

1	RFA-1	PAL-350	7/10/58
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.
USED ON			

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
STOCK SIZE		TRANSFORMER, POWER,	
MATERIAL		STEP DOWN	
		167/10/58	JAY
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
		WJS	A.J.J.
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
		TF-180	

TF-181 B

8-32 NC Cl. 2 Thd. x 3/8 ± 1/16 Long



**ELECTRICAL SPECIFICATIONS:**  
 Primary - 115/230 VAC, 50/60 CPS, Single Phase  
 Secondary - No. 1 (Term. 5, 6, 7) 810V @ 100 Ma. DC, CT.  
 No. 2 (Term. 8, 9) 5V @ 2A.  
 (Term. 8, 10) 6.3V @ 2A.  
 No. 3 (Term. 11, 12, 13) 2.5V @ 10A CT.  
 Insulation - Secondary Windings No. 1 & 2 shall be insulated for 1500V.  
 Primary - for 1500V  
 Secondary No. 3 - for 5000V.

**MECHANICAL SPECIFICATIONS:**  
 Case - Rectangular, Steel, MIL Type JA, Hermetically Sealed.  
 Finish - TMC Smooth Grey Enamel (5115), except terminal end.  
 Size - 3-1/16 x 3-9/16 x 4-7/8 high, excluding studs and terminals.  
 Stamping - Terminals shall be metal stamped 1-13 as shown. Opposite end shall be rubber stamped in black as shown.

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	ON SCHEMATIC; PIN (12) WAS (13); PIN (13) WAS (14)	3-22-65	13619			
A	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572			

TOLERANCES SCALE: FULL

DEC. DIM. ±  
FRAC. DIM. ± 1/64  
ANGULAR DIM. ±

A MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

1	PSP-350	PAL-350	7/11/58
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.
			DATE

STANDARD DRAWING

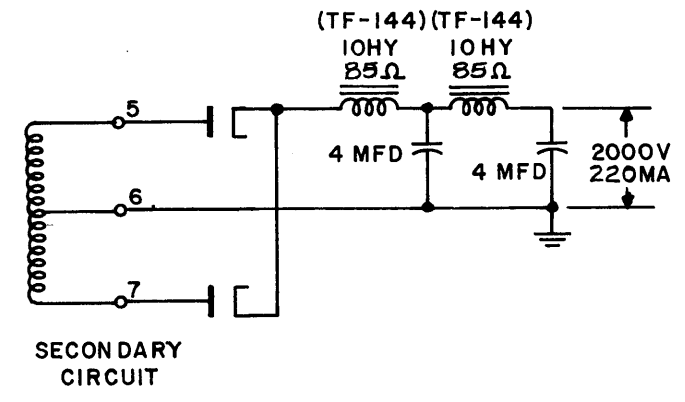
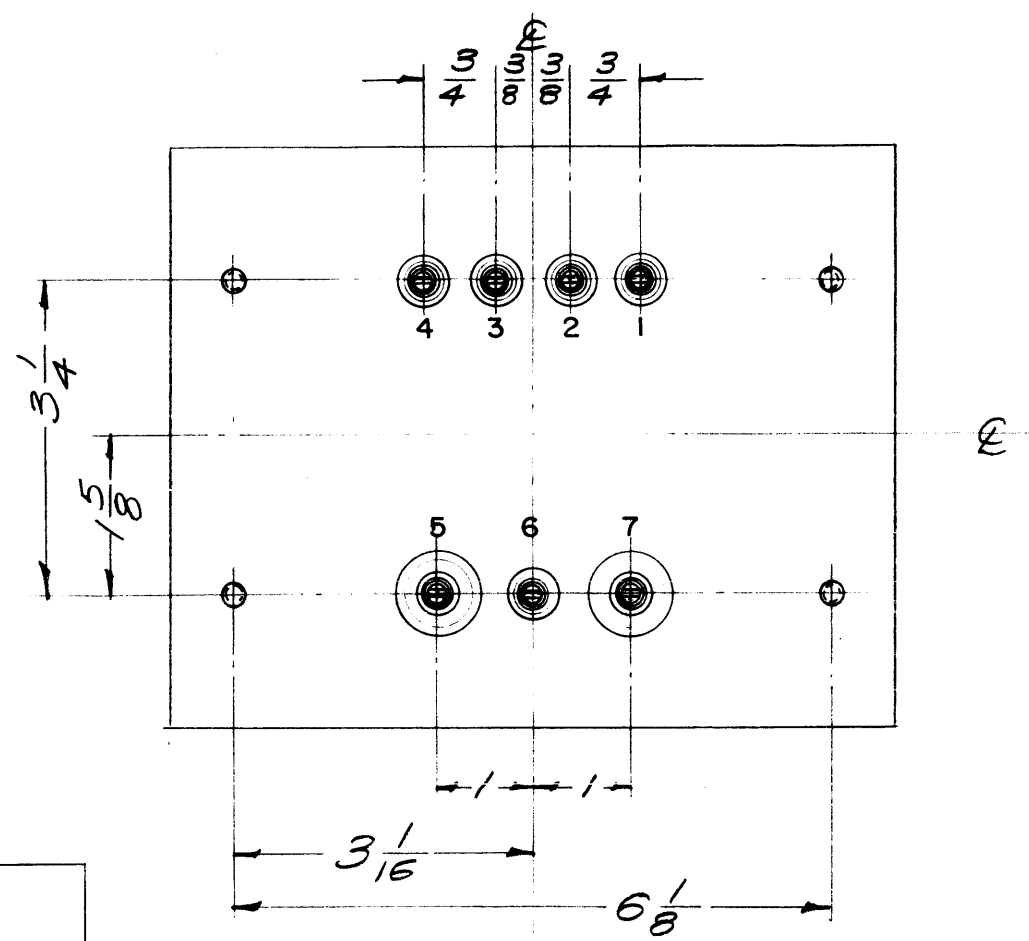
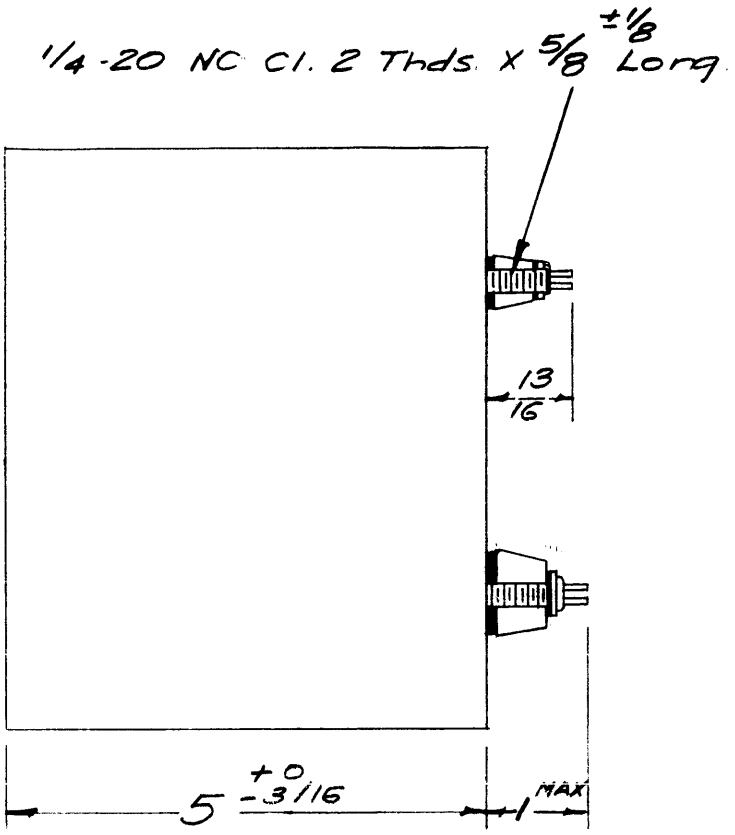
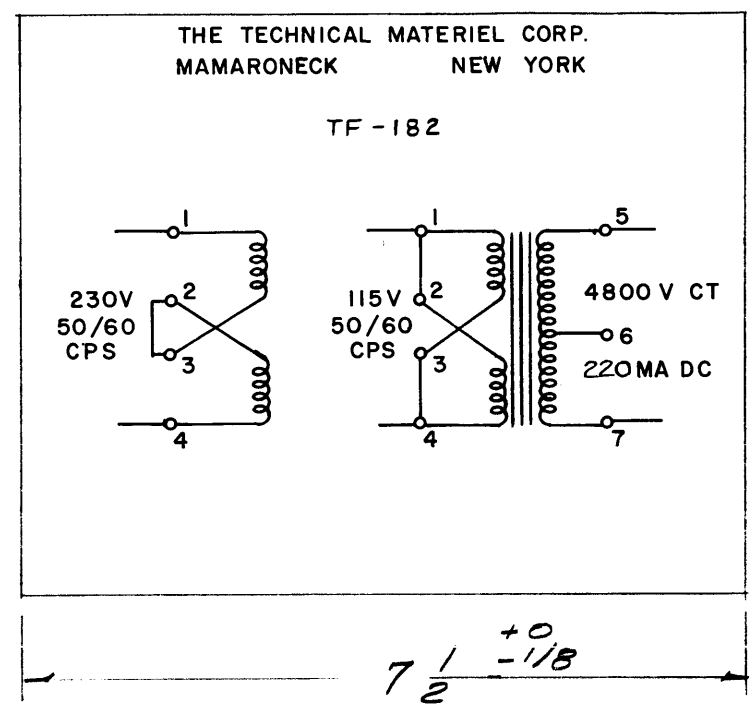
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		TRANSFORMER, POWER, STEP DOWN & STEP UP	
		MATERIAL	
		TYPE & TEMPER	HEAT TREAT. SPEC.
		DRAWN	CHECKED
		FINISH & SPEC. NO.	ELEC. DES. APP. MECH. DES. APP.

6 7/16 58 LAJW ATT

TF-181 B



TF-182 A



ELECTRICAL SPECIFICATIONS:  
PRIMARY- 115/230 VAC, 50/60 CPS, SINGLE PHASE.  
SECONDARY- 4800 V. CT / 220 MA DC.

MECHANICAL SPECIFICATIONS:  
CASE - RECTANGULAR, STEEL, MIL TYPE YY, HERMETICALLY SEALED.  
FINISH - TMC SMOOTH GREY ENAMEL (S115), EXCEPT TERMINAL END.  
SIZE - 6 X 7-1/2 X 5 HIGH, EXCLUDING STUDS AND TERMINALS.  
STAMPING - TERMINALS SHALL BE METAL STAMPED 1-7 AS SHOWN. OPPOSITE END SHALL BE RUBBER STAMPED IN BLACK AS SHOWN.

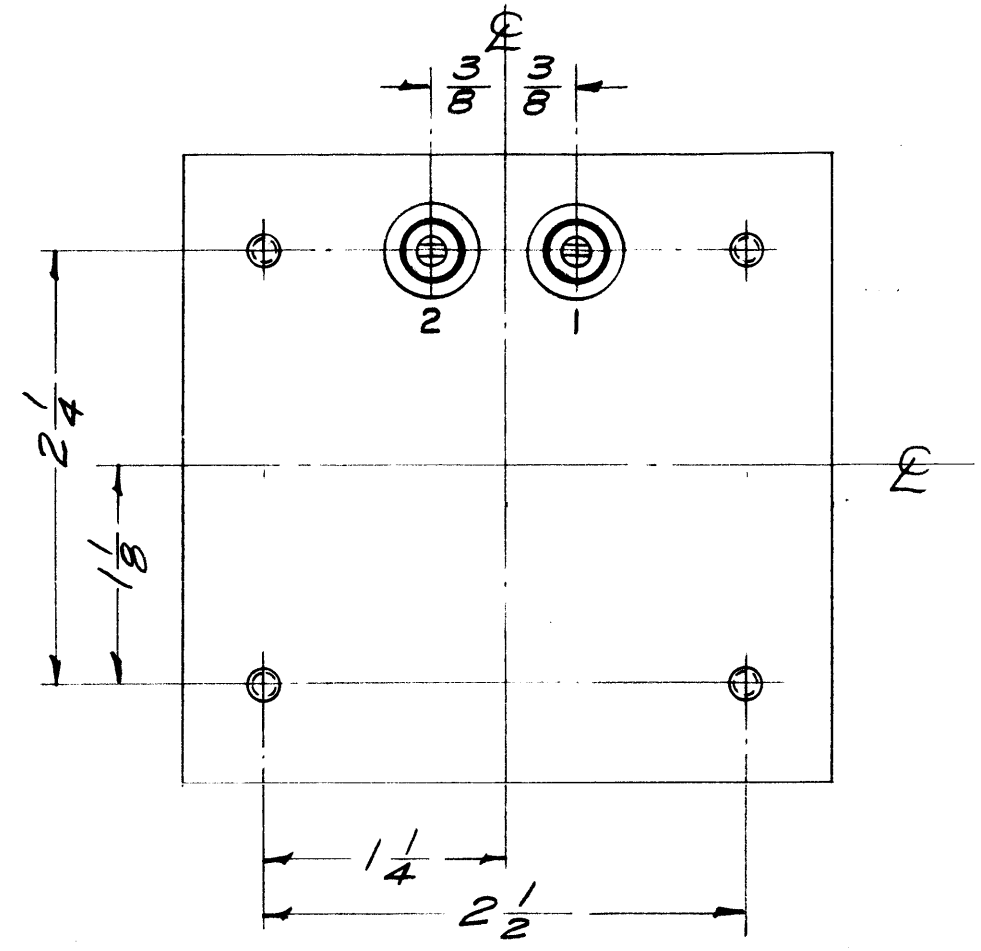
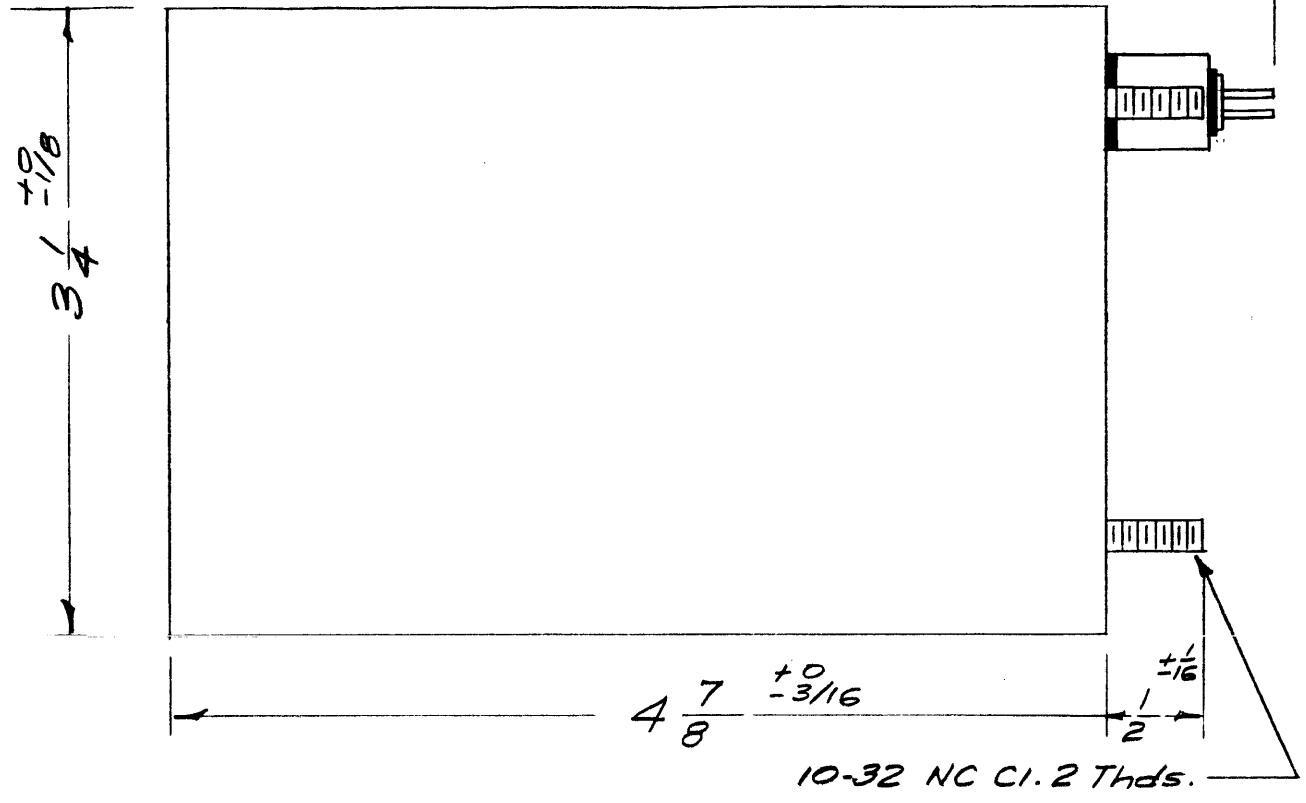
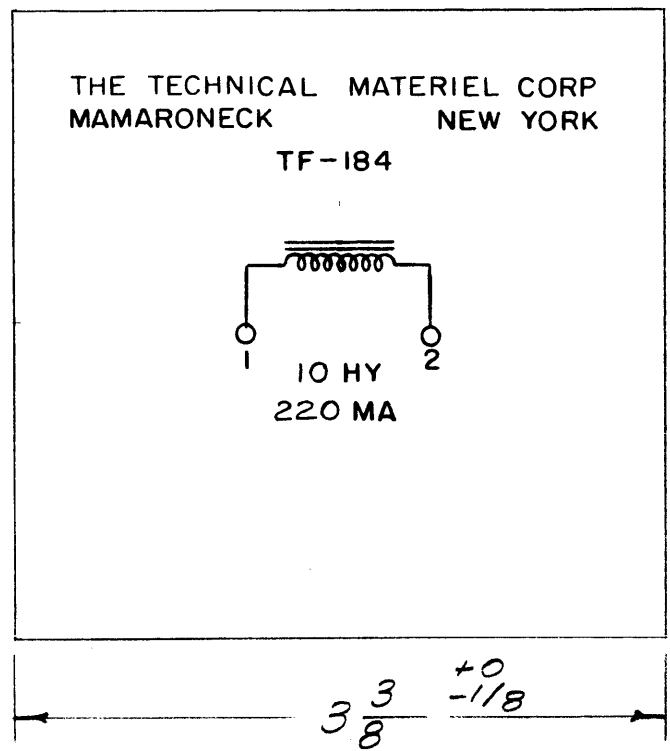
NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

A	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE: 1/2				
DEC. DIM. ±		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES					
FRAC. DIM. ± 1/64							
ANGULAR DIM. ±							

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
USED ON				

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE		TRANSFORMER, POWER, STEP-UP	
MATERIAL			
		16 7/11/58 <i>[Signature]</i>	ATT
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
		<i>[Signature]</i>	
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
		TF-182	A

TF-184 A



**ELECTRICAL SPECIFICATIONS:**  
 Inductance - 10 Hy. at Full Current Rating.  
 DC Current Rating - 220 MA  
 DC Resistance - Approx. 80 Ω  
 Insulation - Winding to be insulated for 5000V

**MECHANICAL SPECIFICATIONS:**  
 Case - Rectangular, Steel, MIL Type YY,  
 Hermetically Sealed.  
 Finish - TMC Smooth Grey Enamel, (5115), except  
 terminal end.  
 Size - 3 1/4 x 3 3/8 x 4 7/8 high, excluding studs  
 and terminals.  
 Stamping - Terminals shall be metal stamped  
 1 & 2 as shown. Opposite end shall be  
 rubber stamped in black as shown.

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
A	1	NOTE ADDED (MIL T-27-A)	6-29-40	2572			15
TOLERANCES			SCALE: FULL				
DEC. DIM. ±			MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.				
FRAC. DIM. ± 1/64			REMOVE ALL BURRS AND SHARP EDGES				
ANGULAR DIM. ±							

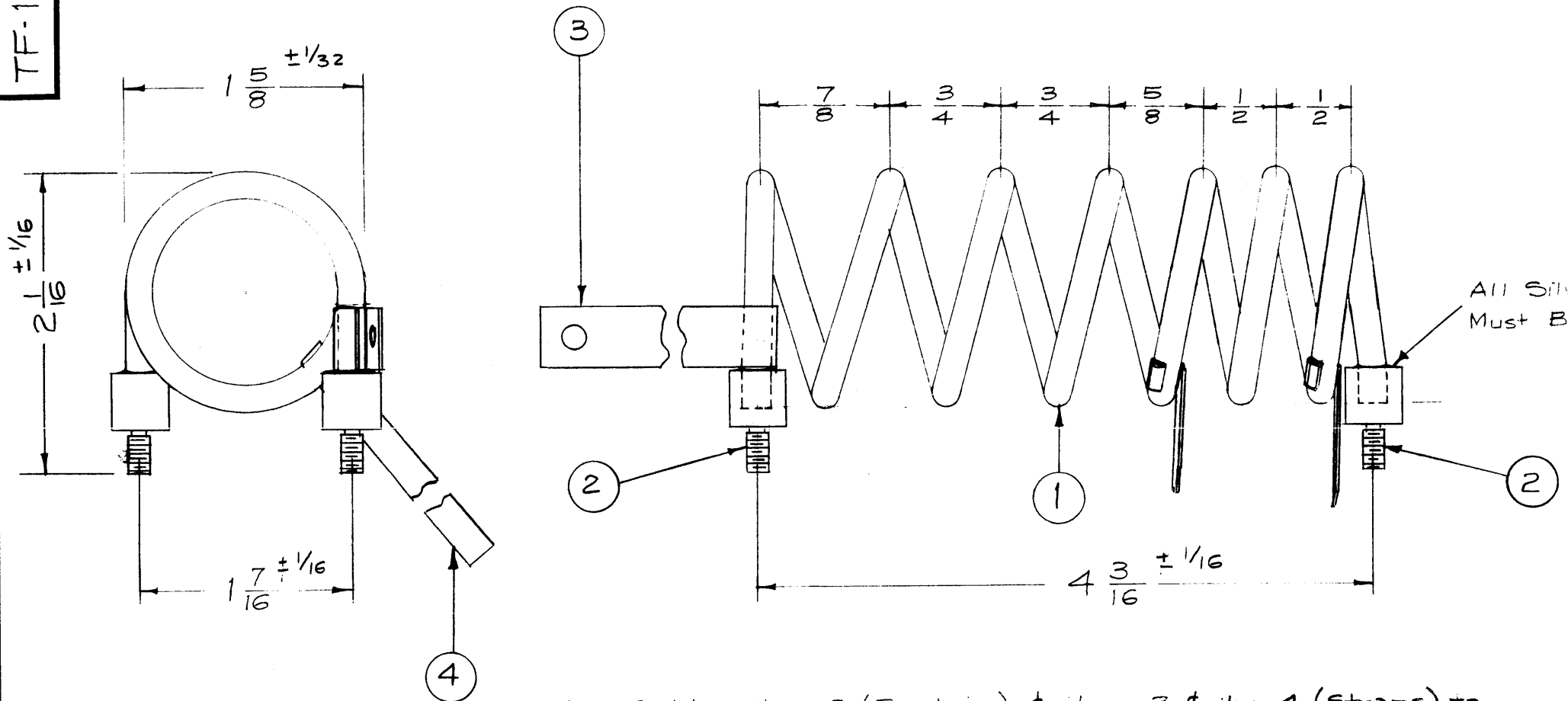
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	STOCK SIZE		
		REACTOR	
	MATERIAL		
		167/21/58	A. J. J.
	TYPE & TEMPER	DRAWN	CHECKED
	HEAT TREAT. SPEC.		
			FINAL APPROVAL
			TF-184 A
	FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.

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Property of:  
THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK, NEW YORK



ELECTRICAL SPEC:  
Inductance -

MECHANICAL SPEC:  
Winding Direction - CCW  
No. of Turns - 6-1/2

Note: Solder item 2 (Bushing) & item 3 & item 4 (Straps) to item 1 (Coil) with item 5 (Silver Solder). Then Silver Plate entire unit.

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL		
X	5	BS-101-1	Solder, Silver			
2	4	MS-203-1-2.00	Lead, Connecting, 1/4 Wide	2" lg.		
1	3	MS-202-4-7.00	Lead, Connecting, 7/16 Wide	7" lg.		
2	2	PM-491	Bushing, Transformer			
X	1	TU-100-3N	Tubing, Copper (3/16 OD x .127 ID)			
			<b>THE TECHNICAL MATERIEL CORP.</b> MAMARONECK, NEW YORK			
STOCK SIZE			TRANSFORMER, RF, FIXED, 16-32 MC (T208)			
MATERIAL						
			16 5/16 x 5/8	A.J.J.		
		TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED	FINAL APPROVAL
		S-245 Silver Plate	.0005	WYO	RFB	TF-188 B
		FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.	

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	ITEM 4 TAPS MOVED DOWN ON TURNS	6/25/58	2	16	Jude	AJM
A	1	Bushing Size chgd (item 2) Height Added (2 1/16) WAS 6 1/2	6/6/58	1	16	Jude	AJM

TOLERANCES: SCALE: FULL

DEC. DIM. ±  
FRAC. DIM. ±  
ANGULAR DIM. ±

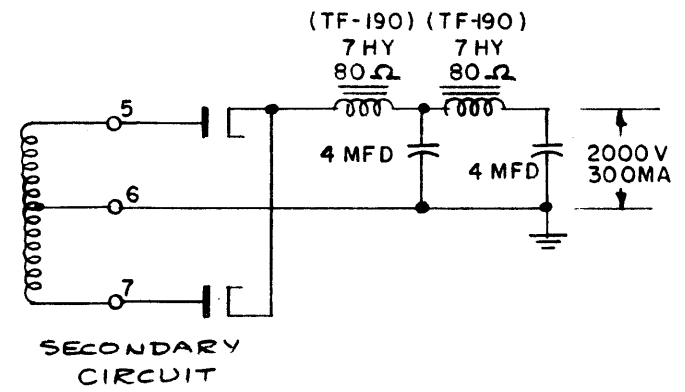
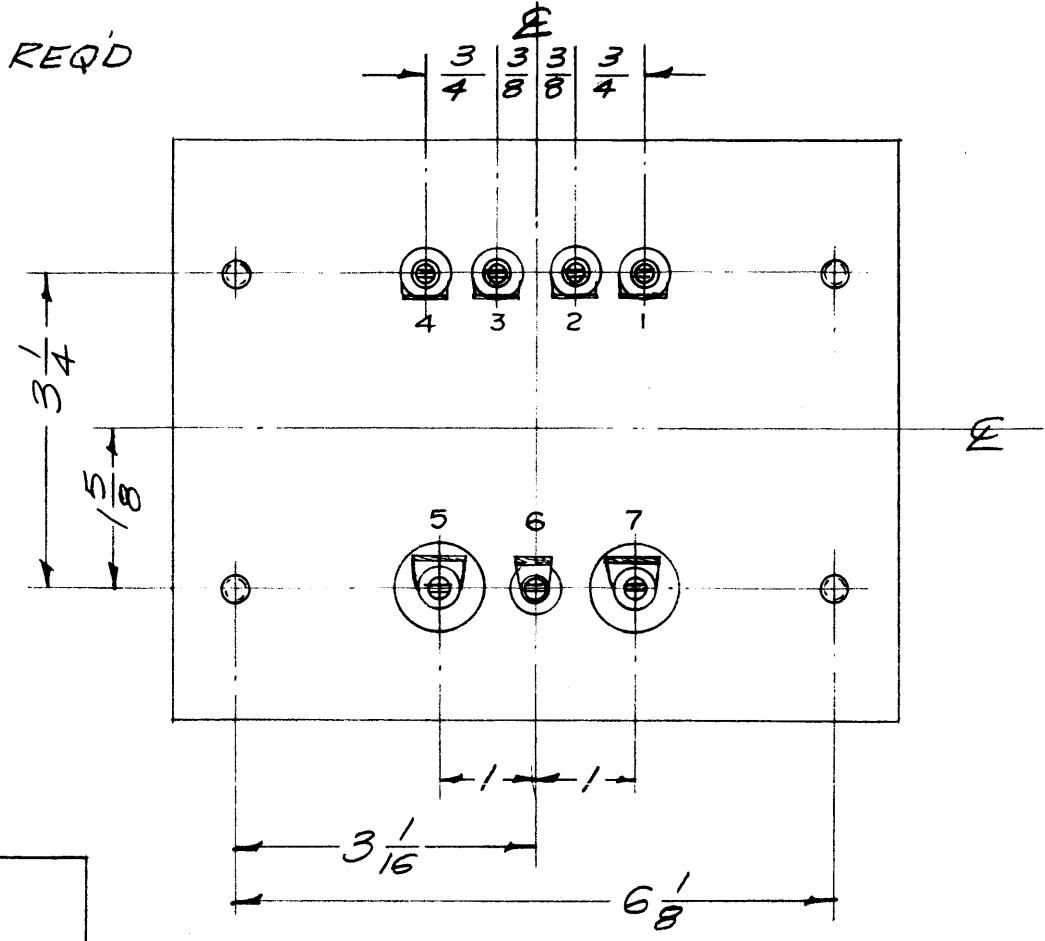
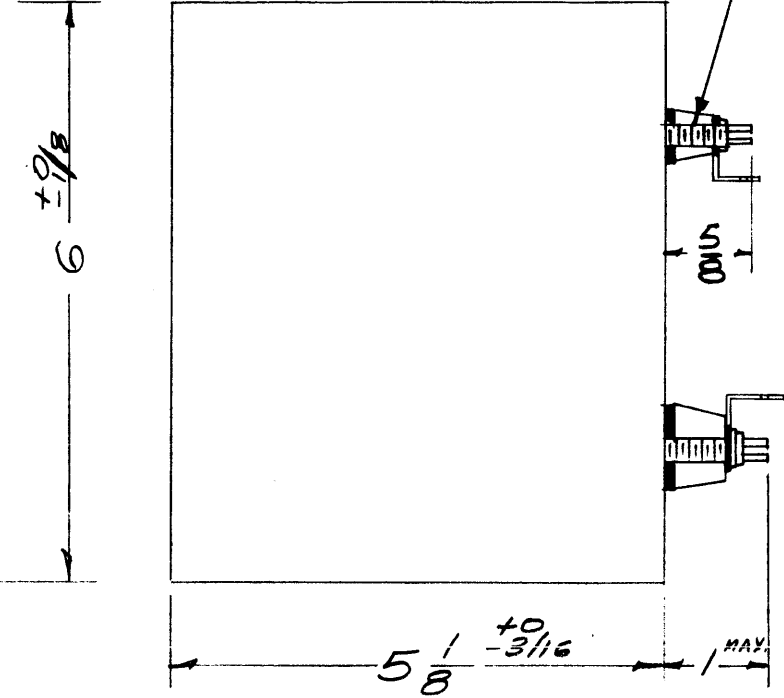
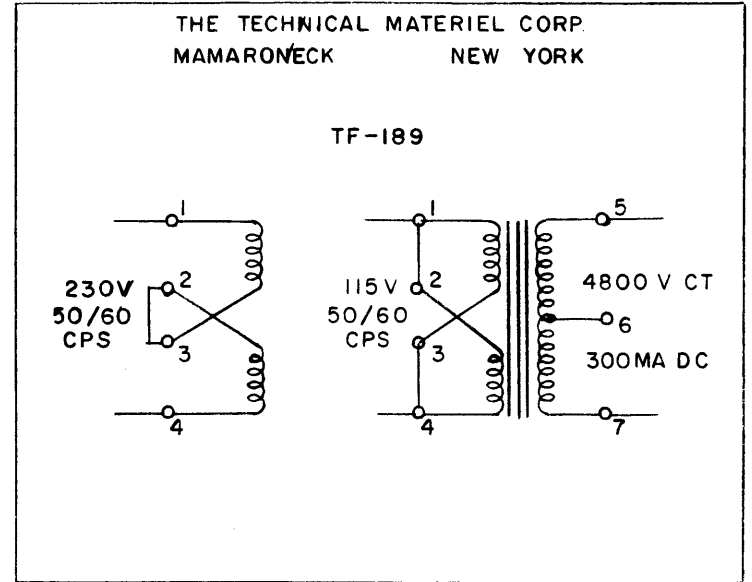
A

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
1	RFA-1	PAL-350	T208	5-24-58
USED ON				

TF-189 B

1/4-20 NC Cl. 2 Thds. x 5/8 ± 1/8 Long. 4 REQ'D



**ELECTRICAL SPECIFICATIONS:**  
 PRIMARY 115/230 VAC, 50/60 CPS, Single Phase.  
 SECONDARY 4800 V. CT/300 MA DC.

**MECHANICAL SPECIFICATIONS:**  
 CASE Rectangular, Steel, MIL Type YY, Hermetically Sealed.  
 FINISH TMC Smooth Grey Enamel (S-115), except terminal end.  
 SIZE 6 X 7-1/2 X 5-1/8 High, excluding studs and terminals.  
 STAMPING Terminals shall be metal stamped 1 - 7 as shown.  
 Opposite end shall be rubber stamped in black as shown.

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	TERM. CLARIFIED 5/8 DIM. WAS 13/16	9-27-63	10098			
A	1	NOTE ADDED (MIL-T-27A)	6-29-60	2572			

TOLERANCES SCALE: 1/2

DEC. DIM. ±  
 FRAC. DIM. ± 1/64  
 ANGULAR DIM. ±

**A** MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
1	PSP-350	PAL-350	T102	7-21-58

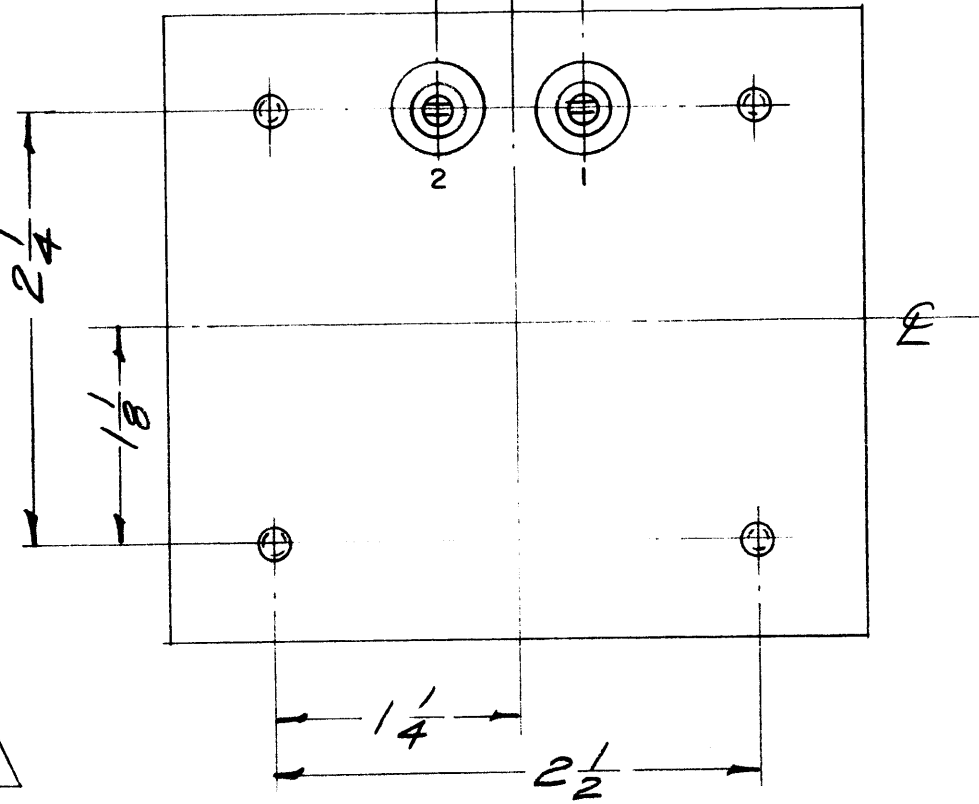
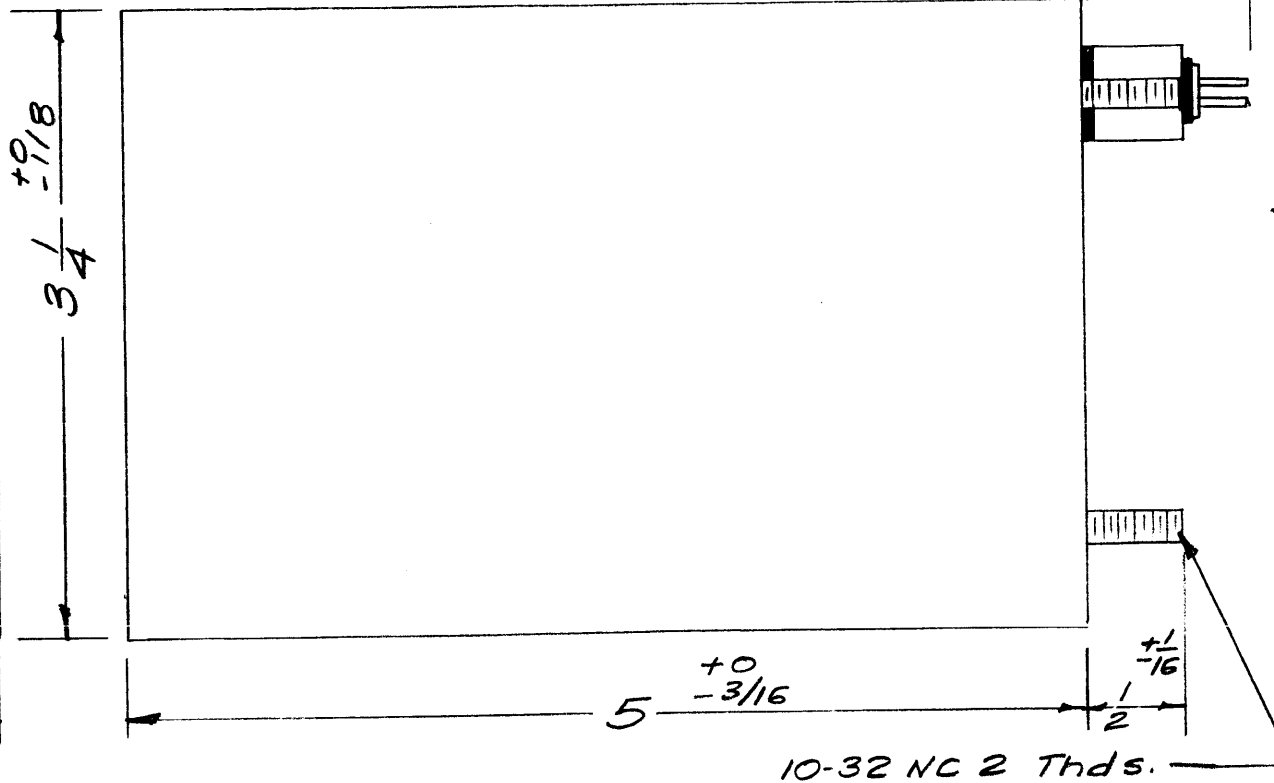
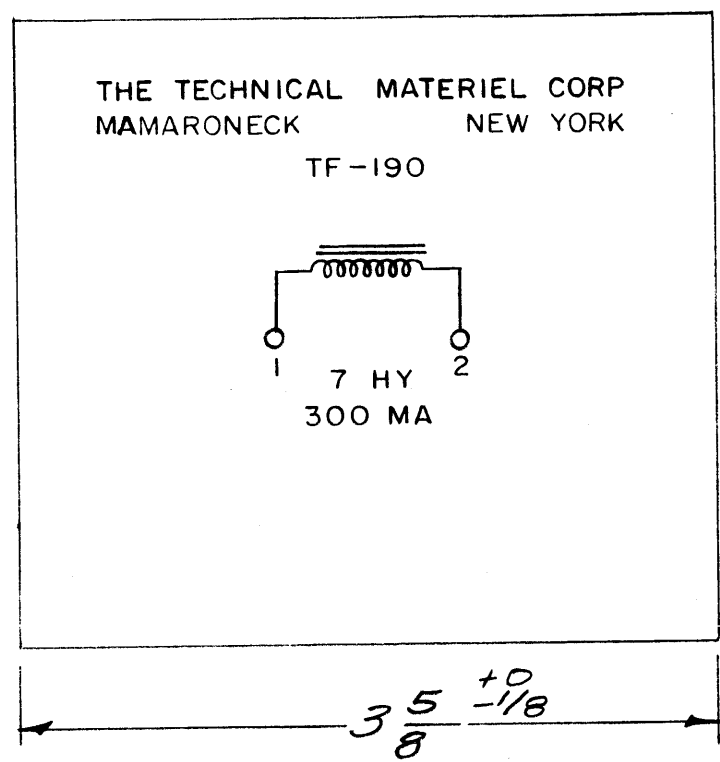
USED ON

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
STOCK SIZE		TRANSFORMER, POWER, STEP-UP	
MATERIAL			
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.

16 7/21/58

FINAL APPROVAL TF-189 B

TF-190 B



**ELECTRICAL SPECIFICATIONS:**  
 INDUCTANCE 7 Henries at full current rating.  
 DC CURRENT RATING 300 MA  
 DC RESISTANCE Approx. 80 ohms.  
 INSULATION Winding to be insulated for 6000 V.

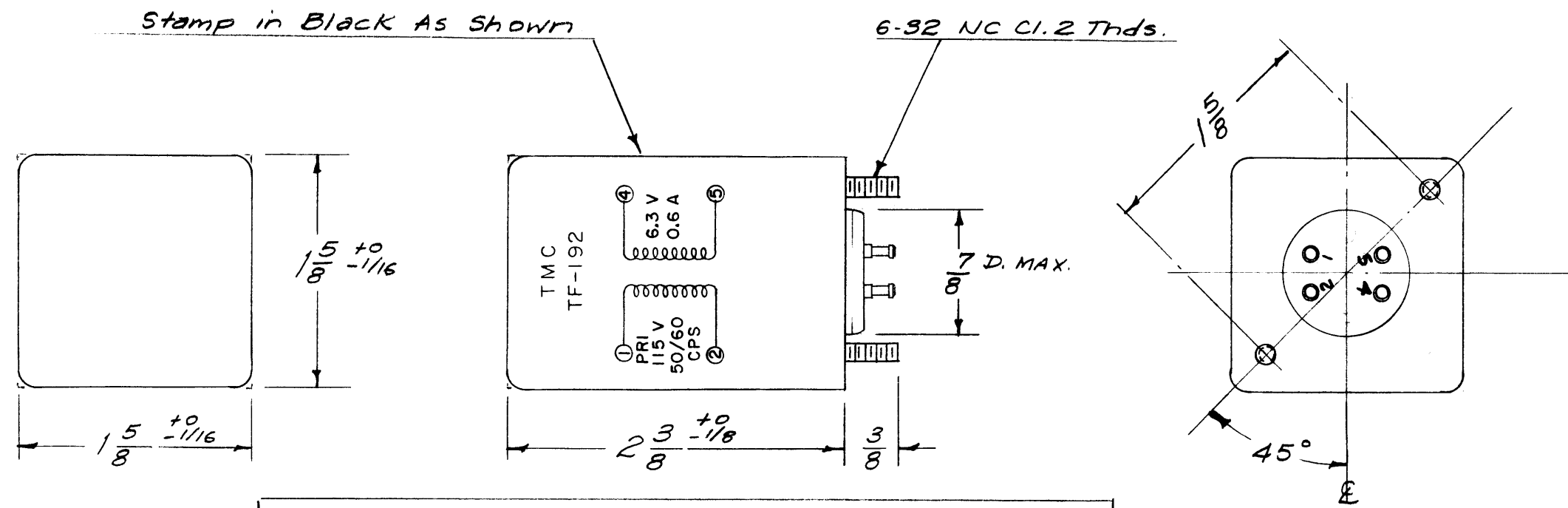
**MECHANICAL SPECIFICATIONS:**  
 CASE Rectangular, Steel, MIL Type YY, hermetically sealed.  
 FINISH TMC Smooth Grey Enamel (S-115), except terminal end.  
 SIZE 3-1/4 X 3-5/8 X 5 High, excluding studs and terminals.  
 STAMPING Terminals shall be metal stamped 1 and 2 as shown. Opposite end shall be rubber stamped in black as shown.

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED

B	INSULATION 6000V WAS 5000V	6-24-65	14321	D.V.V.	Q/S		
A	1 NOTE ADDED (MIL T-27-A)	6-29-60	2572				
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE: FULL					
DEC. DIM. ±		A MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES					
FRAC. DIM. ±1/64							
ANGULAR DIM. ±							

2	PSP-350	PAL-350	L103,104	7/22/58
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
USED ON				

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE		REACTOR, 7 HENRY, 300 MA	
MATERIAL			
TYPE & TEMPER		HEAT TREAT. SPEC.	
DRAWN		CHECKED	FINAL APPROVAL
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
		TF-190	B



**ELECTRICAL SPECIFICATION:**  
 PRIMARY - 115 VAC, 50/60 CPS, SINGLE PHASE  
 SECONDARY - 6.3 Volts. 0.6 Amps RMS  
 INSULATION TEST VOLTAGE - 1500 V.

**MECHANICAL SPECIFICATIONS:**  
 CASE - RECTANGULAR, STEEL, MIL TYPE YY, ( AJ MODIFIED )  
 HERMETICALLY SEALED  
 FINISH - TMC SMOOTH GREY ENAMEL (S115), EXCEPT TERMINAL END.  
 SIZE - 1-5/8 X 1-5/8 X 2-3/8 HIGH MAXIMUM., EXCLUDING STUDS  
 AND TERMINALS

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572			
A	-	SEC. Clarified	1/24/58	-			

TOLERANCES

SCALE: S401-159 (HSM-223)

DEC. DIM. ± 1/64  
 FRAC. DIM. ± 1/64  
 ANGULAR DIM. ±

C

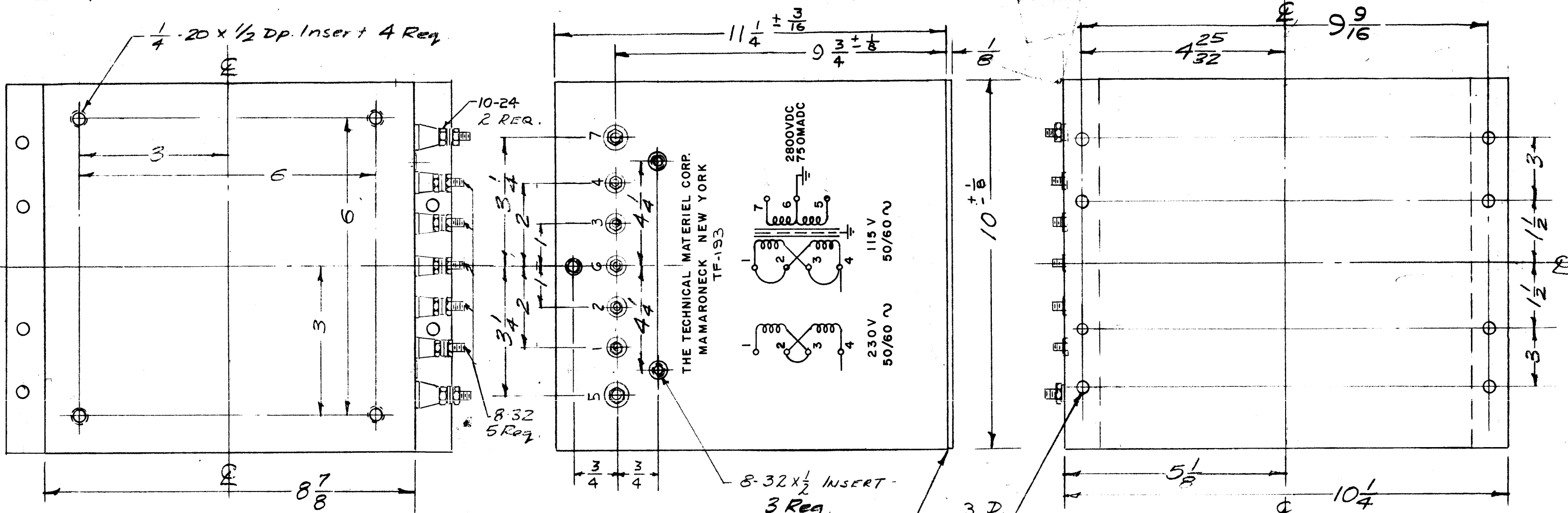
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.  
 REMOVE ALL BURRS AND SHARP EDGES

1	S-394	ATS MOD. KIT	9/18/58
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.
			DATE

USED ON

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		TRANSFORMER, POWER, STEP-DOWN (FILAMENT)	
		16 9/18/58	
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
			FINAL APPROVAL
		ELEC. DES. APP.	MECH. DES. APP.
		TF-192	B

TF-193

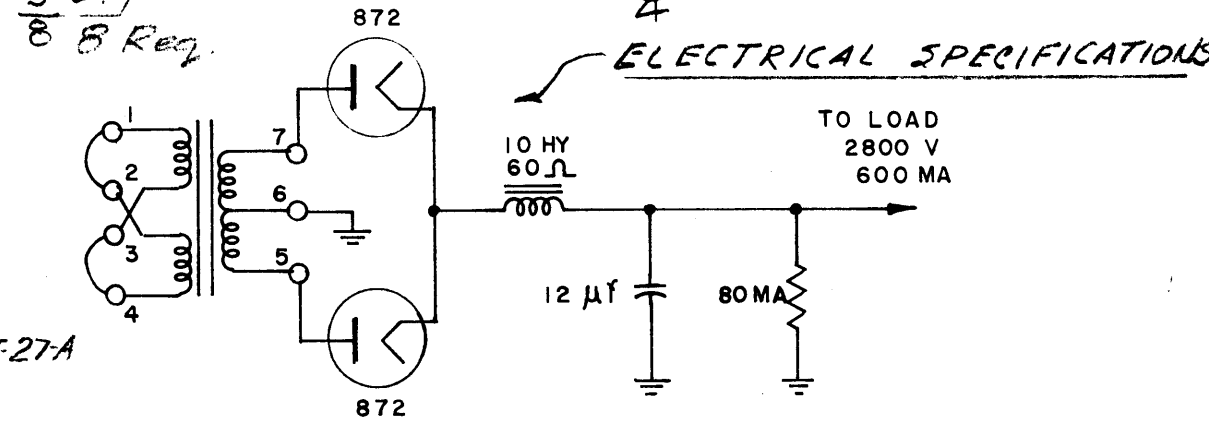


**MECHANICAL SPECIFICATIONS-**

CASE - STEEL, HERMETICALLY SEALED, RECTANGULAR  
 COLOR - TMC SMOOTH GRAY S-115  
 INSERTS -  $\frac{1}{4}$ -20 X  $\frac{1}{2}$  DEEP - 4 REQ.  
           8-32 X  $\frac{1}{2}$  DEEP - 3 REQ.  
 SIZE - 8  $\frac{7}{8}$  X 10 X 11  $\frac{1}{4}$  EXCLUSIVE OF TERMINALS  
 AND MOUNTING PLATE LIPS.

1/8 Plate Welded to  
 TRANSFORMER  
 (10 X 10  $\frac{1}{4}$ )

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A  
 EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE  
 AND QUALIFICATION TESTING IS NOT REQUIRED.



TRANSFORMER TO BE USED IN CIRCUIT AS ABOVE  
 PRIMARY - 115/230 V. A.C., 50/60 CPS.  
 SECONDARY - 2800 V, 750 MA. ACROSS LOAD  
 ELECTROSTATIC SHIELD SHALL BE INSERTED (FOIL)

F	TOL ADDED, INSERTS QTY. CLAR.	9-13-67	18486	H.G.	EFM
E	1 10-24 THD WAS 10-32	9-10-63	9918	YAF	
D	2 IN SPECS. 750 MA WAS 600 MA.	7-30-63	9673	AK.	
C	1 IN PICT. 750MADC WAS 600MADC				
C	3 Pins 547 HV (Clarified)				
C	2 115V Was 118V On Pictorial	11-17-61	5906	L. L.	
C	1 Pin 2 Was Pin 3 On 230V Oper.				
B	1 NOTE ADDED (MIL T-27A)	6-29-60	2572		
A	1 3/8 DIA WAS 5/32 D	6/8/59	-		

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REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
STOCK SIZE			
TRANSFORMER, POWER, STEP-UP			
MATERIAL			
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
FINISH & SPEC. NO.		ELEC. DES. APP. MECH. DES. APP.	

TOLERANCES	SCALE: <i>CXD</i>	2-1246
DIM. ±	MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP ED ES	
DIM. ±	REQ. PER UNIT	MODEL PROJECT NO. ASSY. NO. DATE
DIM. ±	USED ON	

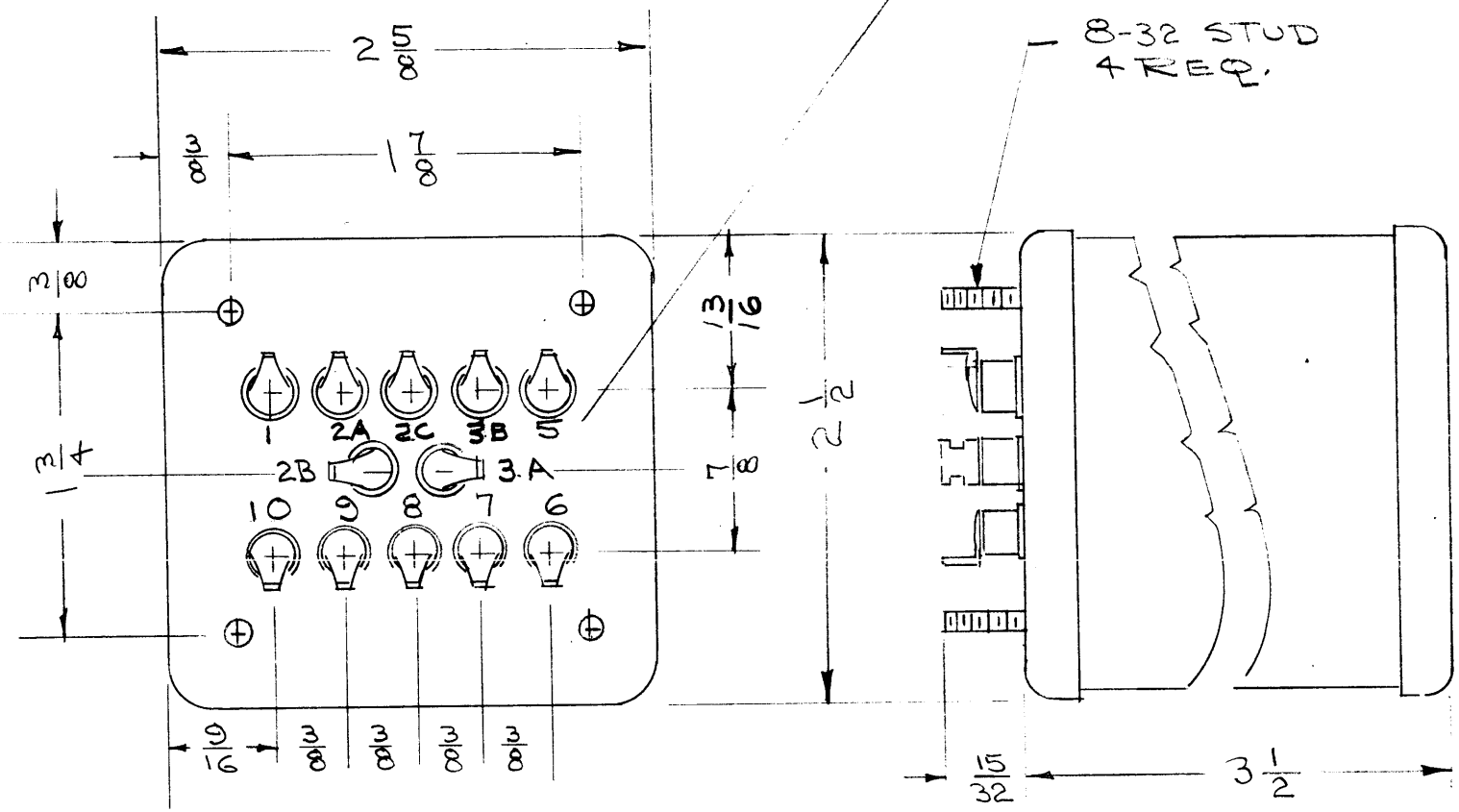
A

A.J.J.

TF-193 F

TF-194

STAMP TERMINAL NOS.  
AS SHOWN, 1/8 HIGH  
LETTERING.

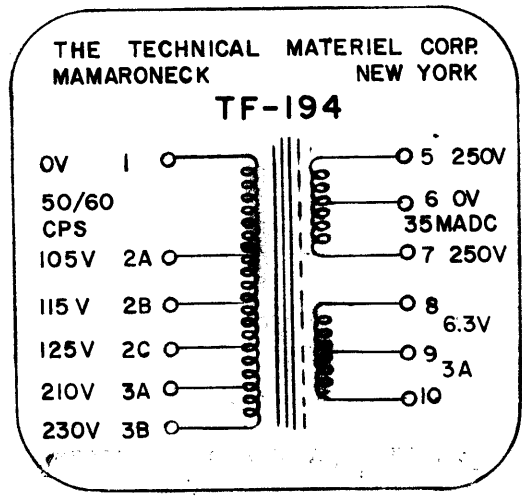


**A. ELECTRICAL SPECIFICATIONS:**

PRIMARY: 105V, 115V, 125V, 210V, 230V, 50/60 CPS, Single Phas  
 SECONDARY: #1. 250-0-250 volts RMS, 35MA DC operating into a 4 MFD capacity input filter.  
 SECONDARY: #2. 6.3 volts center tapped at 3 AMPS.  
 INSULATION: All windings insulated for 1000 V  
 HEAT RISE: Max. temperature Rise + 40° C.

**B. MECHANICAL SPECIFICATIONS:**

CASE: Hermetically sealed in rectangular metal can.  
 FINISH: Smooth Dark Grey Enamel, Similar or Equal to Maas & Waldstein lot #68397, Navy Spec. 52El4, Type C, Gloss 35 to 40 units. (S-115)  
 SIZE: 3 1/2 X 2 1/2 X 2-5/8  
 Mounting Center: As shown  
 TERMINALS: 3/8 long O/a solder type terminals and ceramic bushings, located on mounting end.  
 LETTERING: Schematic Diagram, TMC Part Number (TF-194) Manufacturer's Name and part number shall appear on end opposite terminals



NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

NOTE:  
STATIC SHIELD GROUNDED  
TO LAMINATION

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
A	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572			
TOLERANCES			SCALE:				
DEC. DIM. ±			MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES				
FRAC. DIM. ±							
ANGULAR DIM. ±							

REQ. PER UNIT	1	MODEL	RSM-3	PROJECT NO.		ASS'Y. NO.		DATE	9/30/58
USED ON									

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE		TRANSFORMER, POWER	
MATERIAL			
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
		TF-194	A



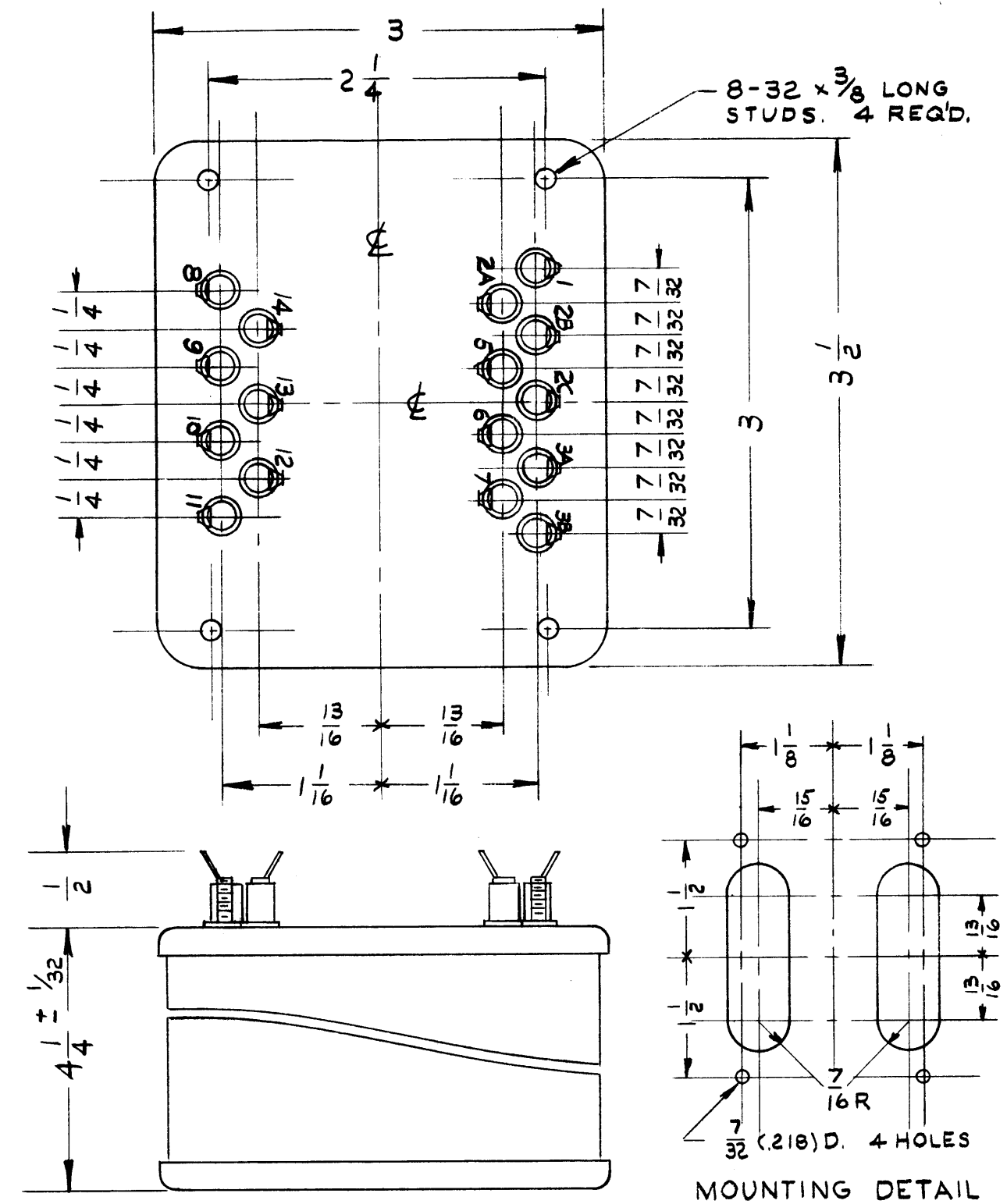
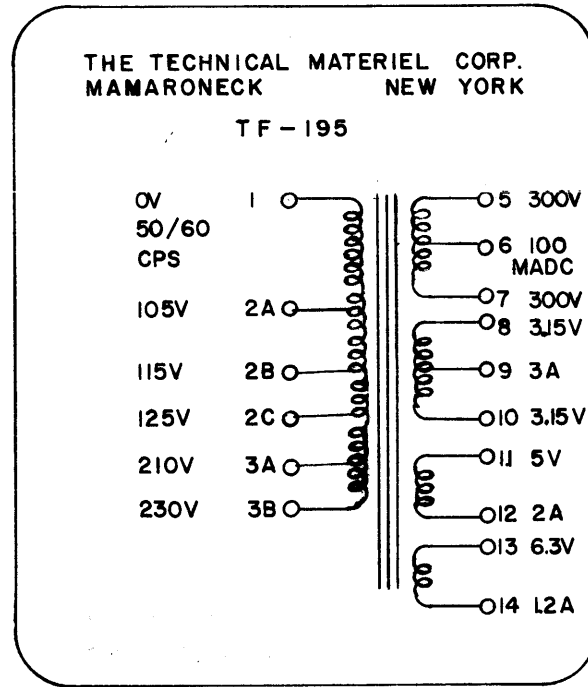
TF-195-G

**ELECTRICAL SPECIFICATIONS:**

- PRIMARY: 105V, 115V, 125, 210V, 230V, 50/60 CPS, Single Phase
- SECONDARY NO. 1: 600 V, 100 MA, Center Tapped.
- SECONDARY NO. 2: 6.3 V, 3 A, Center Tapped.
- SECONDARY NO. 3: 5 V, 2 A.
- SECONDARY NO. 4: 6.3 V, 1.2 A, so phased that 12.6 V will appear across terminals 10. & 13.  
If terminals 8 & 14 are connected together.
- INSULATION: All windings shall be insulated for 1000 V.
- HEAT RISE: Max. temperature rise + 40°C.

**MECHANICAL SPECIFICATION:**

- CASE: Hermetically sealed in rectangular steel case.
- FINISH: S-115 smooth grey enamel.
- SIZE: Exclusive of terminals - 3 x 3-1/2 x 4-1/4
- LETTERING: Terminals shall be metal stamped 1 to 14 as shown.  
Opposite end shall appear as shown.



NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

G	1	NOTE ADDED (MIL T-27A)	6-29-60	2572			
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE:				
DEC. DIM. ±			A MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES				
FRAC. DIM. ±							
ANGULAR DIM. ±							

1	RSP-3	PROJECT NO.	ASS'Y. NO.	DATE	9/30/58
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE	
USED ON					

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
	STOCK SIZE	TRANSFORMER POWER	
	MATERIAL		
	TYPE & TEMPER	HEAT TREAT. SPEC.	
		DRAWN	CHECKED
		FINAL APPROVAL	
		ELEC. DES. APP.	MECH. DES. APP.
		TF-195	G

TF-196 C

**ELECTRICAL SPECIFICATIONS:**

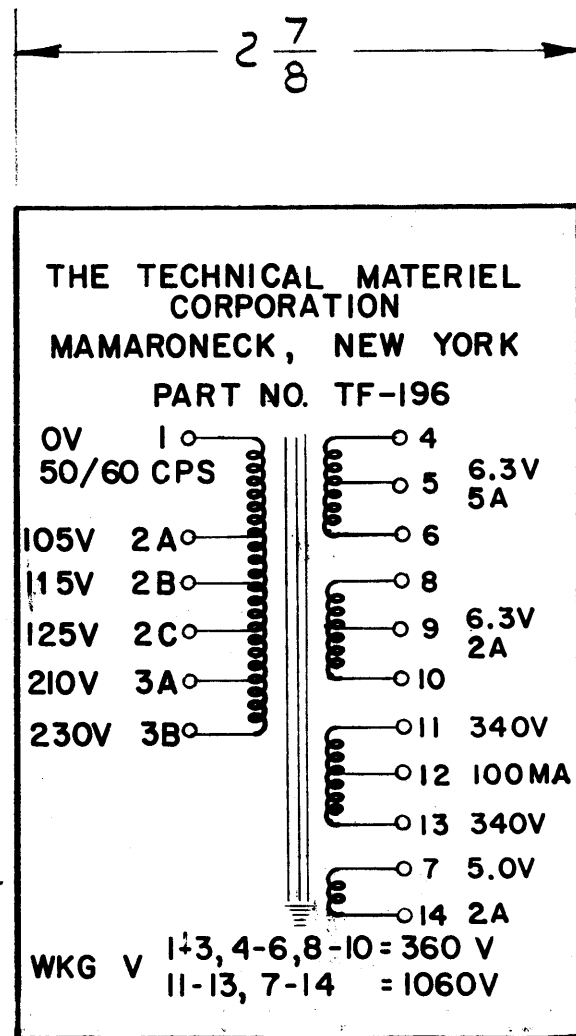
- PRIMARY: 105V, 115V, 125V, 210V, 230V, 50/60 CPS, Single Phase
- SECONDARY NO. 1: 6.3V at 5 amps, C.T.
- SECONDARY NO. 2: 6.3V at 2 amps, C.T.
- SECONDARY NO. 3: 340-0-340 RMS, 100 ma d.c. operating into 4 mfd. capacity input filter.
- SECONDARY NO. 4: 5.0V at 2 amps.
- INSULATION: All windings insulated for 1000 volts.
- HEAT RISE: Max. temperature rise + 40° C

**MECHANICAL SPECIFICATIONS:**

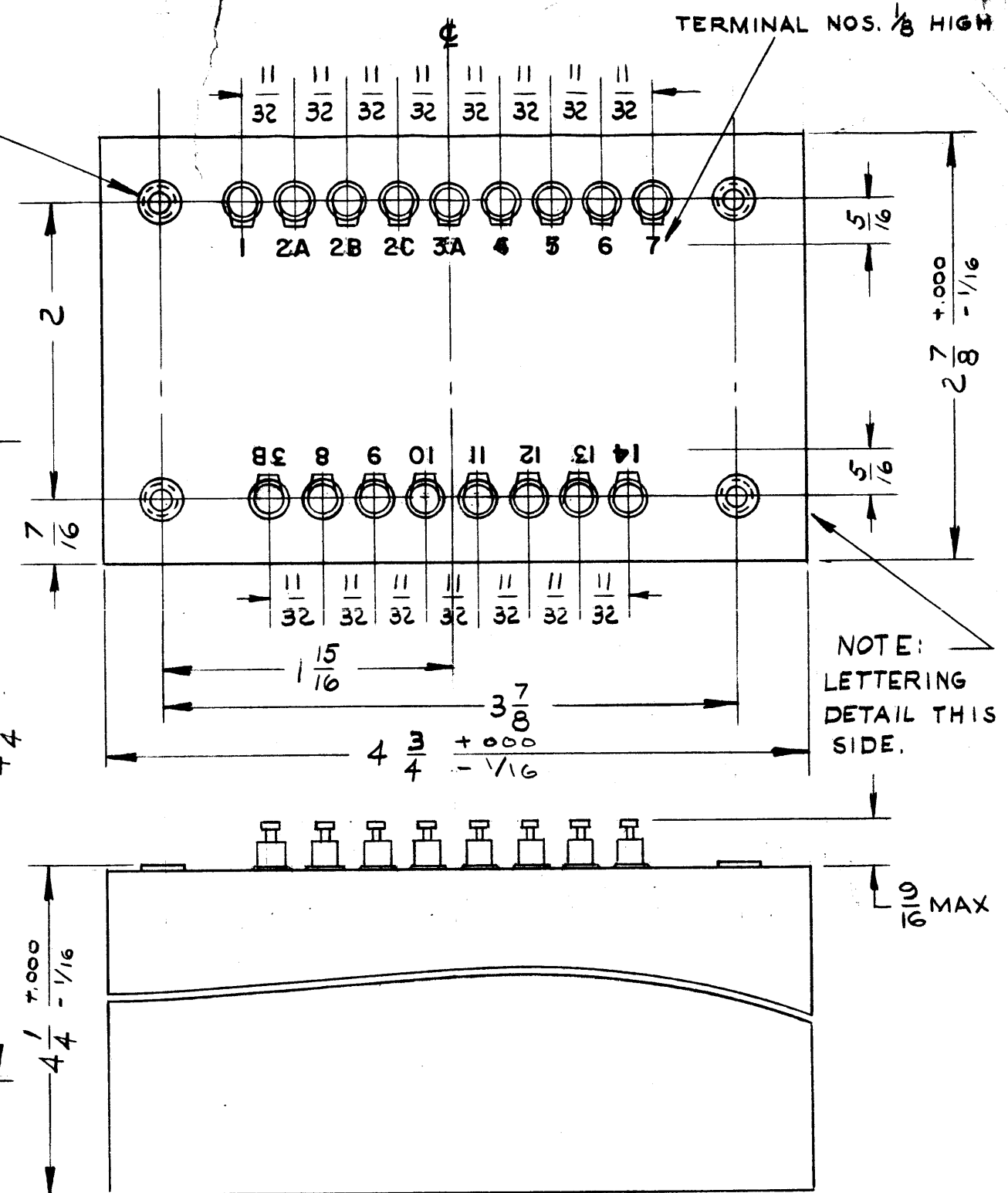
- CASE: Hermetically sealed in rectangular steel case.
- FINISH: Smooth dark gray enamel, Navy Spec. 52E4 Type C, gloss 35-40 units, or equal.
- TERMINALS: 3/8" long o/a, Solder lugs and ceramic bushings shall be used located on mounting end.
- SIZE: Exclusive of terminals:-  
2-7/8 x 4-1/4 x 4-3/4
- LETTERING: Lettering detail to appear on side shown. Terminals shall be metal stamped 1 to 14 as shown.

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

10-32 x 1/2 DP.  
THEADED INSERT  
4 REQ'D.



LETTERING DETAIL



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MAMARONECK, NEW YORK

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
C	1	9/16 MAX WAS 3/8	9-10-63	9917	JCB	file	JCB
B	1	NOTE ADDED (MIL T-27A)	6-29-60	2572	JCB	file	JCB
A	1	Errors corrected on terminal nos 7 & 14	4/9/59	917	J.C.B.	P.L.K.	OMB

TOLERANCES: DEC. DIM. ±, FRAC. DIM. ±, ANGULAR DIM. ±

SCALE: A

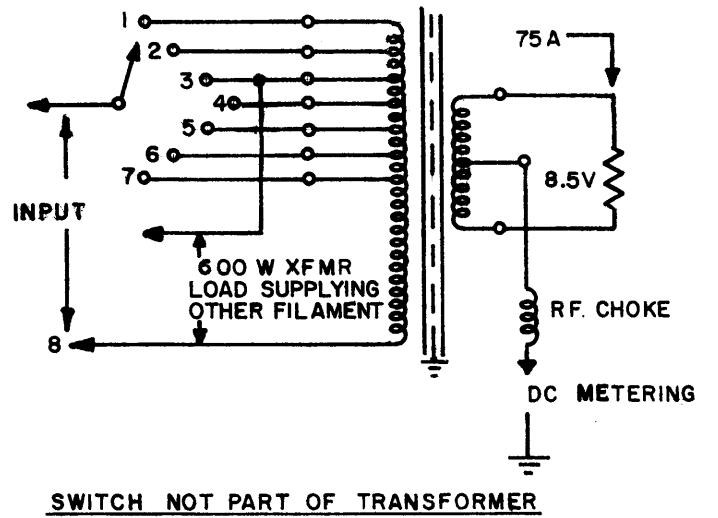
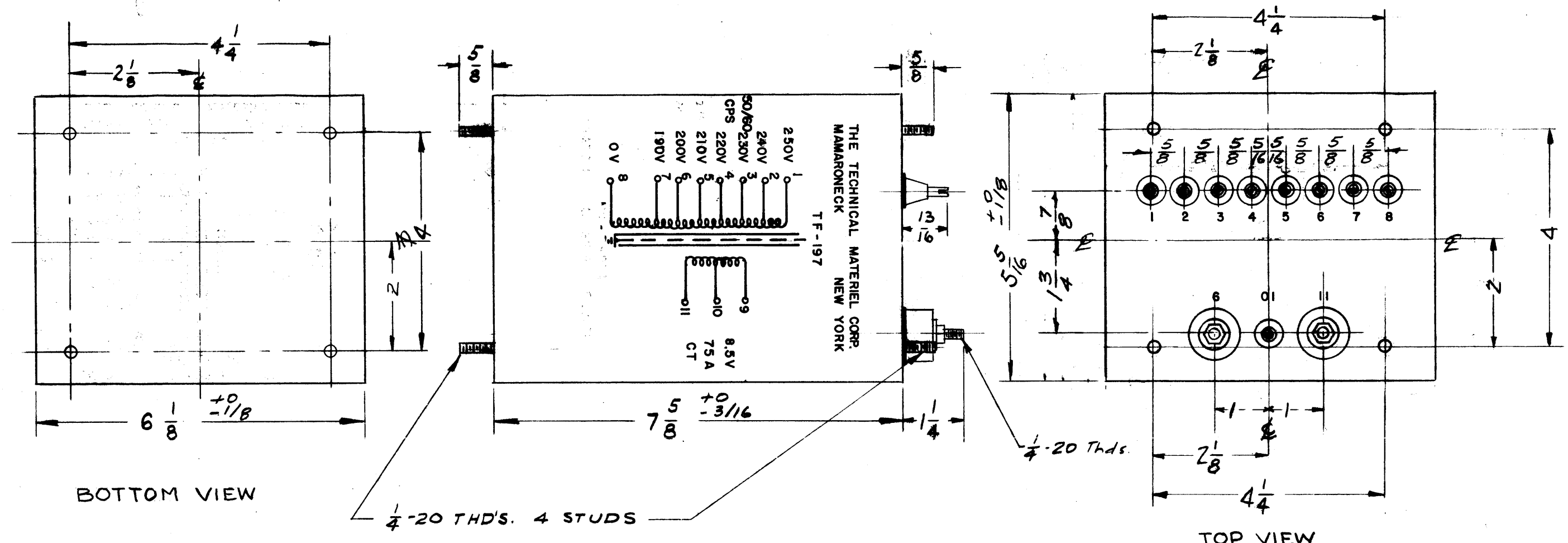
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT	1	MODEL	FFR-3	PROJECT NO.		ASS'Y. NO.		DATE	9/30/58
USED ON									

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE		POWER TRANSFORMER	
MATERIAL			
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.

Final Approval: JCB, P.L.K. 9/30/58, TF-196 C

TF-197



**ELECTRICAL SPECIFICATIONS:**  
 PRIMARY— 230V, 50/60 CPS 1  $\phi$ , WITH TAPS, PLUS AUTOTRANSFORMER SUPPLYING 600 W  
 SECONDARY— 8.5V AT 75 AMP, 2000 VOLT INSULATION.

**MECHANICAL SPECIFICATIONS:**  
 CASE— RECTANGULAR, STEEL, MIL TYPE YY HERMETICALLY SEALED.  
 FINISH TMC SMOOTH GREY ENAMEL (S-115), EXCEPT TERMINAL END.  
 SIZE  $6\frac{1}{8}$  X  $5\frac{5}{16}$  X  $7\frac{5}{8}$  HIGH, EXCLUDING STUDS AND TERMINALS.  
 STAMPING TERMINALS SHALL BE STAMPED 1 TO 11 AS SHOWN. OPPOSITE END SHALL BE RUBBER STAMPED IN BLACK AS SHOWN.

NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

E		ON MECH SPECS $5\frac{5}{16}$ WAS $5\frac{1}{8}$	10-23-67	18559	W.C.	J.P.	E.F.M.
D	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572	J.C.B.	T.G.	Q.M.B.
C	1	8.5V WAS 7.5V	1-21-59	705	J.C.B.	T.G.	Q.M.B.
B		$\frac{1}{4}$ -20 THD'S $5\frac{5}{16}$ LONG ADDED TO TOP VIEW	12-15-58	570	J.C.B.	T.G.	Q.M.B.
A		schematic clarified	11-9-58		J.C.B.	T.G.	Q.M.B.
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE:		1-1235			
DEC. DIM. $\pm$		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES					
FRAC. DIM. $\pm$ 1/64							
ANGULAR DIM. $\pm$							

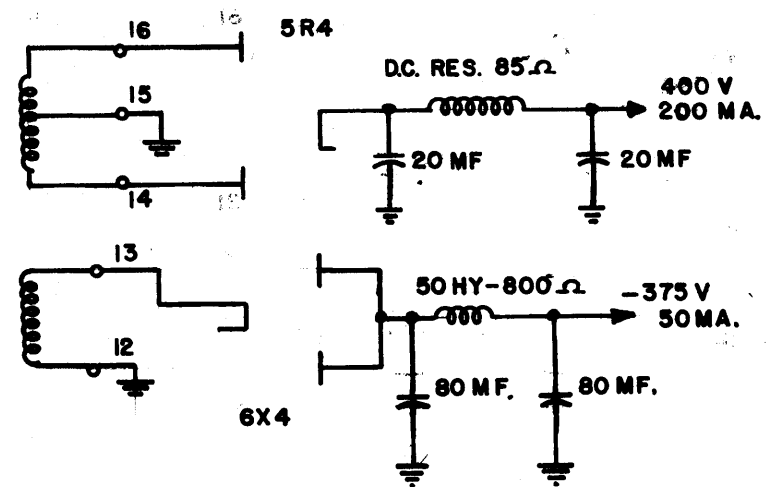
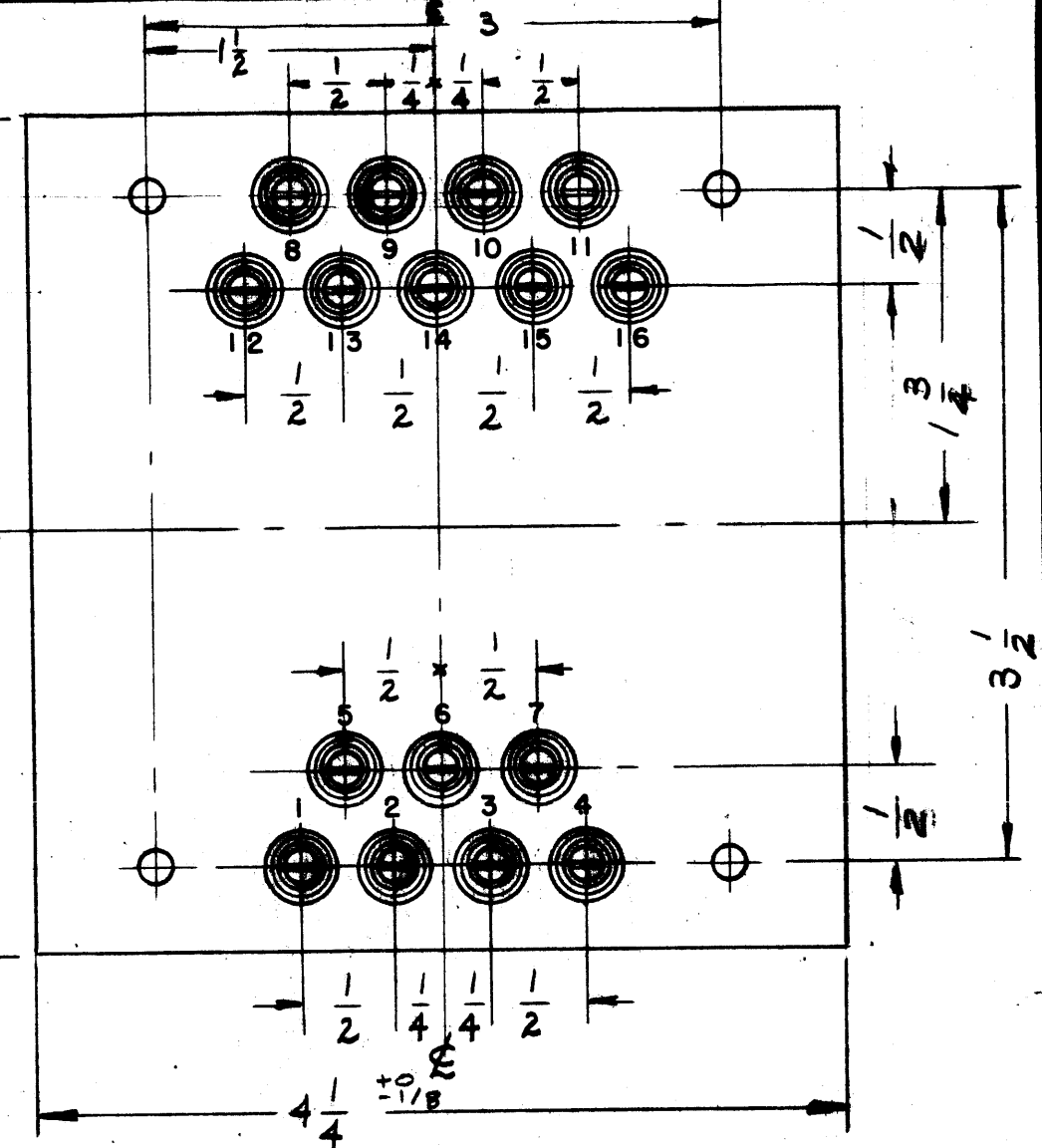
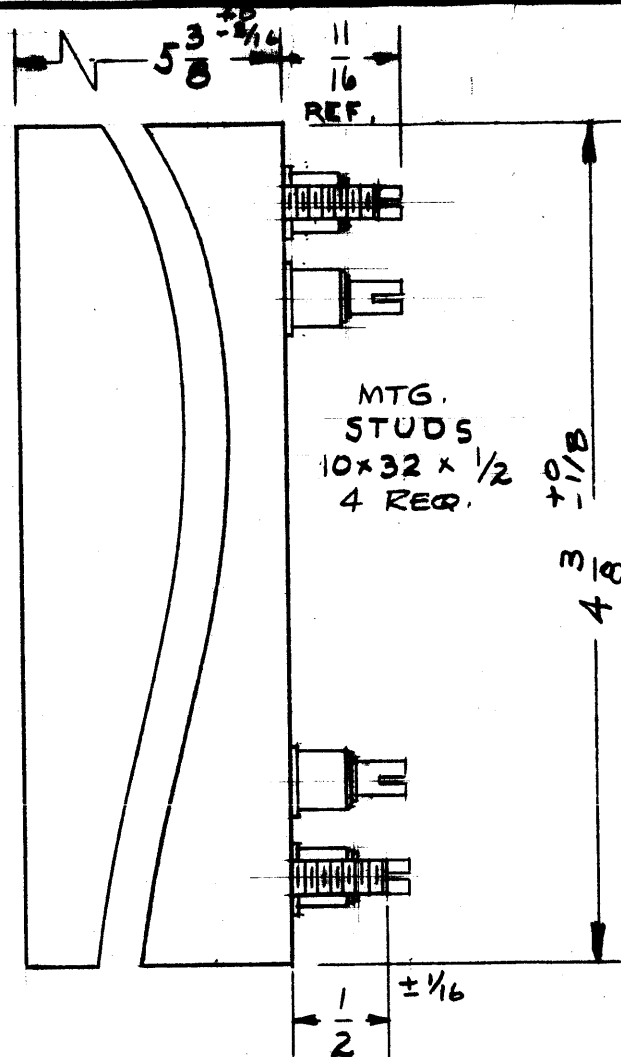
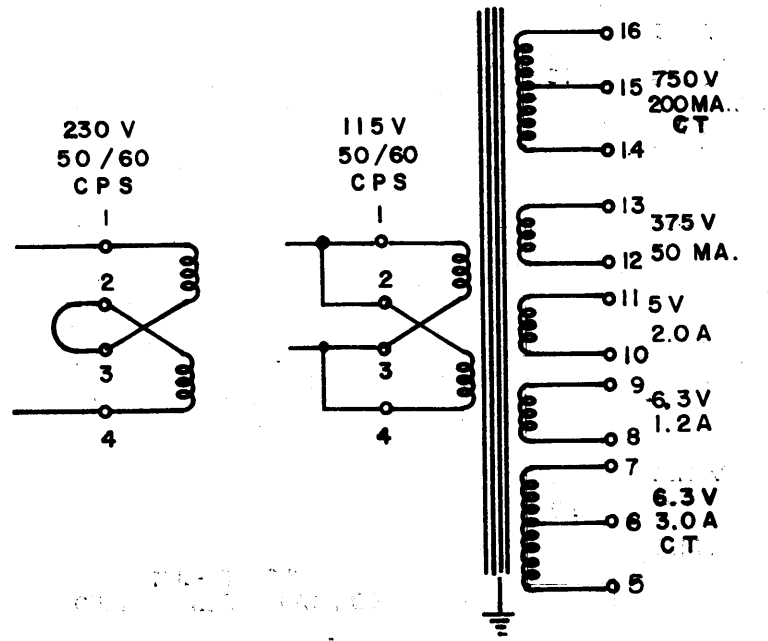
1	GPT-10,000		11-6-58
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.
USED ON			

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE		TRANSFORMER, POWER, STEP DOWN, FILAMENT (8.5V)	
MATERIAL			
TYPE & TEMPER		HEAT TREAT. SPEC.	DRAWN
			CHECKED
			FINAL APPROVAL
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.

TF-198 E

THE TECHNICAL MATERIEL CORP  
MAMARONECK NEW YORK

TF-198-E



**ELECTRICAL SPECIFICATION:**

**PRIMARY:** WHEN PARALLEL CONNECTED 115 V A.C. 50/60 C.P.S. SINGLE PHASE.  
WHEN SERIES CONNECTED 230 V A.C. 50/60 C.P.S. SINGLE PHASE.

**SECONDARY:** FIVE WINDINGS AS FOLLOWS:

- 750 VAC AT 200 MA CENTER TAPPED
- 375 VAC AT 50 MA
- 5.0 VAC AT 2.0 AMPS
- 6.3 VAC AT 1.2 AMPS
- 6.3 VAC AT 3.0 AMPS CENTER TAPPED

**INSULATION:** WINDING SHALL BE INSULATED FOR 3000 V D.C.

**MECHANICAL SPECIFICATIONS:**

**CASE:** RECTANGULAR STEEL, MIL TYPE YY, HERMETICALLY SEALED.

**FINISH:** TMC SMOOTH GREY ENAMEL (S-115), EXCEPT TERMINAL END.

**STAMPING:** TERMINALS SHALL BE METAL STAMPED 1 TO 16 AS SHOWN. OPPOSITE END SHALL BE LETTERED IN BLACK AS SHOWN (APPROX. TO SCALE).

**NOTE:** MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27 -A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE & QUALIFICATION TESTING IS NOT REQ'D.

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
E	1	SEC. #1 WAS 800VAC SEC. #2 WAS 370VAC	7-17-63	9655			
D	2	ON SECONDARY EDDY WAS 700V 30V INSTEAD	6-3-63	9120			
D	1	STAMPING & SCHEMATIC CLARIFIED					

REQ. PER UNIT	1	MODEL	GPT-10K	PROJECT NO.	AX-104	ASS'Y. NO.		DATE	
USED ON									

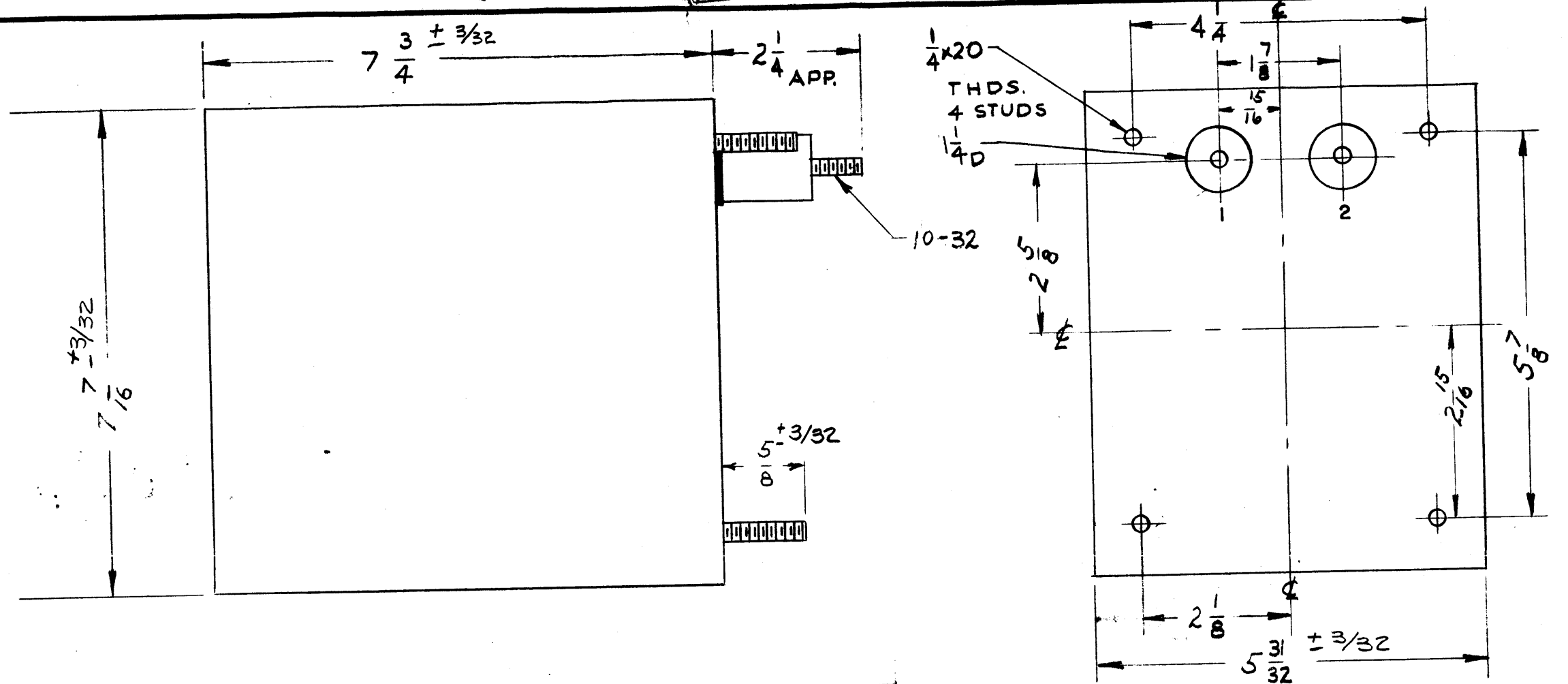
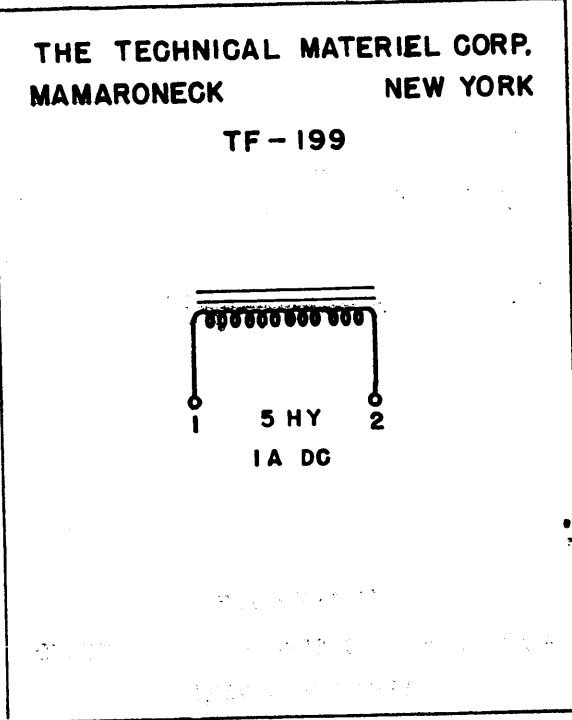
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
		TRANSFORMER POWER STEP-UP/STEP-DOWN, L.V BIAS SUPPLY	

DEC. DIM. ±  
FRAC. DIM. ± 1/64  
ANGULAR DIM. ±

SCALE: 2-1287  
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.  
REM VE ALL BURRS AND SHARP EDGES

TYPE & TEMPER HEAT TREAT. SPEC.  
FINISH & SPEC. NO.  
DRAWN CHECKED  
ELEC. DES. APP. MECH. DES. APP.  
TF-198 E

TF-199 D



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ELECTRICAL SPECIFICATIONS:

INDUCTANCE-5 HY. AT FULL CURRENT RATING  
DC CURRENT RATING- APPROX. 1 AMP.  
DC RESISTANCE - APPROX. 20 OHMS.  
INSULATION - WINDING TO BE INSULATED FOR 10,000V RMS

MECHANICAL SPECIFICATIONS:

CASE- RECTANGULAR, STEEL, MIL TYPE YY, HERMETICALLY SEALED.  
FINISH- T M C SMOOTH GREY ENAMEL, (S115), EXCEPT TERMINAL END.  
SIZE:  $5 \frac{31}{32} \times 7 \frac{7}{16} \times 7 \frac{3}{4}$  HIGH, EXCLUDING STUDS AND TERMINALS.  
STAMPING:- TERMINALS SHALL BE METAL STAMPED 1-2 AS SHOWN. OPPOSITE END SHALL BE RUBBER STAMPER IN BLACK AS SHOWN.

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
D	1	$\pm \frac{3}{32}$ TOL. CLARIFIED. DEL. MIL SPEC NOTE	9-27-63	10101	ED	JMY	AMB
C	1	ADDED TO SPECS. DC RESISTANCE "20 OHMS"	8-8-63	9738	HC	JMY	LG
B	1	NOTE ADDED (MIL T-27A)	6-30-60	2572		JH	LG
A	-	10-32 THDS WERE V4-20	11/9/58	-		JG	AMB

TOLERANCES		SCALE:		2-1298	
DEC. DIM. $\pm$	FRAC. DIM. $\pm$ 1/64	A		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES	

REQ. PER UNIT	GPT-10,000	PR JECT NO.	ASS'Y. NO.	DATE	11-6-58
USED ON					

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE		REACTOR, 5 HENRY, 1A.	
MATERIAL			
TYPE & TEMPER		HEAT TREAT. SPEC.	
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.

DRAWN: J. BILLS  
 CHECKED: LG  
 FINAL APPROVAL: AMB  
 T.F.G. J.B. TF-199 D