

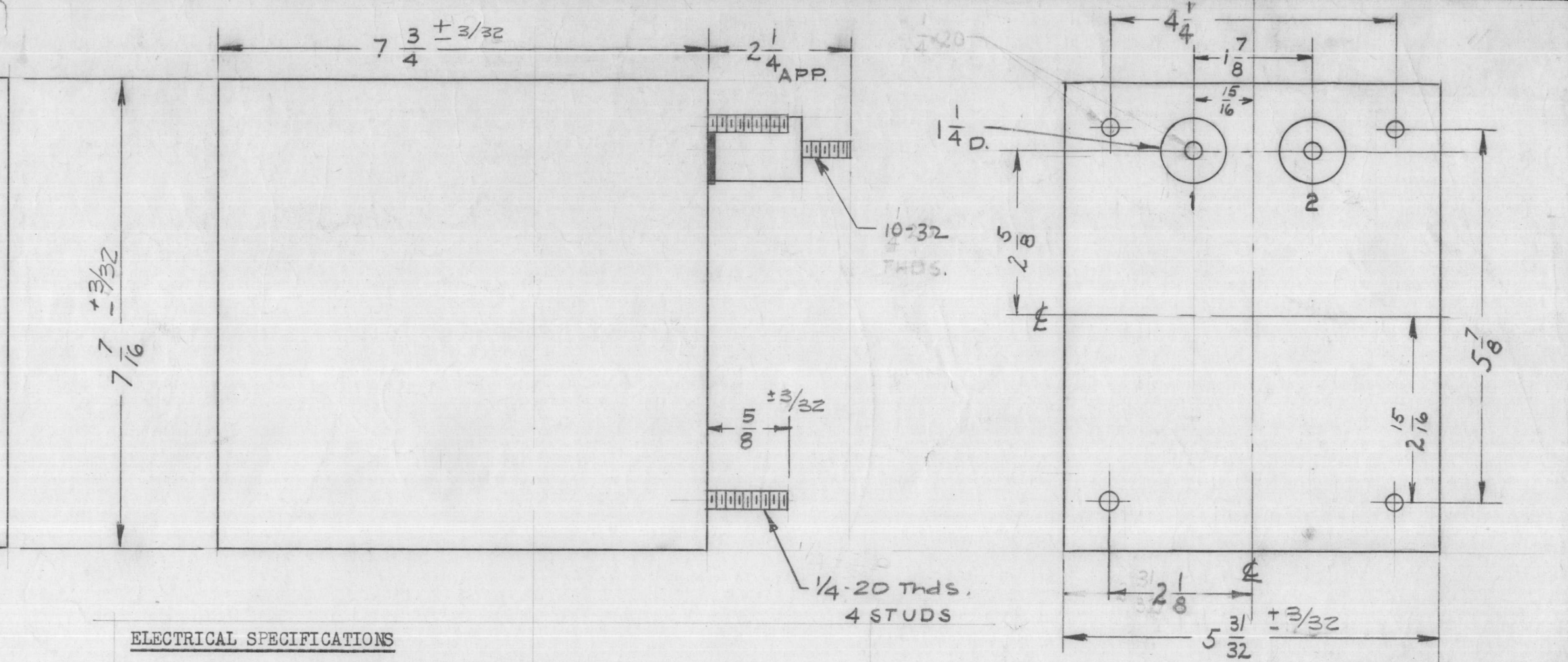
TF-200 D

THE TECHNICAL MATERIEL CORP.  
MAMARONECK NEW YORK

TF - 200

2 HY  
1.6A DC

MIL-T-27A  
GRADE 1 CLASS R FAMILY OH  
15,000 VRMS



NOTICE TO PERSONS RECEIVING THIS DRAWING

THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.

Property of:  
THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK, NEW YORK

ELECTRICAL SPECIFICATIONS

INDUCTANCE- 2 HENRIES AT FULL CURRENT RATING.  
DC CURRENT RATING- 1.6 AMPS  
DC RESISTANCE - APPROX. 8 1/2 OHMS.  
INSULATION - WINDING TO BE INSULATED FOR 15,000 VRMS

MECHANICAL SPECIFICATIONS

CASE RECTANGULAR, STEEL MIL TYPE YY, HEMETICALLY SEALED.  
FINISH TMC SMOOTH GREY ENAMEL (S115), EXCEPT TERMINAL END.  
SIZE 5 31/32 x 7 7/16 x 7 3/4 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 IS NOT REQUIRED.

~~REACTOR SHALL BE IN ACC. WITH MIL-T-27A AND ENDR.~~

~~GRADE 1 CLASS R FAMILY OH~~  
~~THE TECHNICAL MATERIEL CORP.~~

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
D	1	F 3/32 TOL CLARIFIED DEL MIL SPEC NOTE	9-27-63	10101		JAB	JFB
C	1	ADDED TO SPECS, DC RESISTANCE "8 1/2 OHMS."	8-8-63	9738		AK	JG
B	1	NOTE ADDED (MIL-T-27A)	6-30-60	2572		JFB	JG
A	-	10-32 THDS WERE 1/4-20	11/9/58	-		JFB	JG

TOLERANCES		SCALE:
DEC. DIM. ±		2-1288
FAC. DIM. ±	1/64	
REGULAR DIM. ±		

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
	GPT-10900			11-6-58

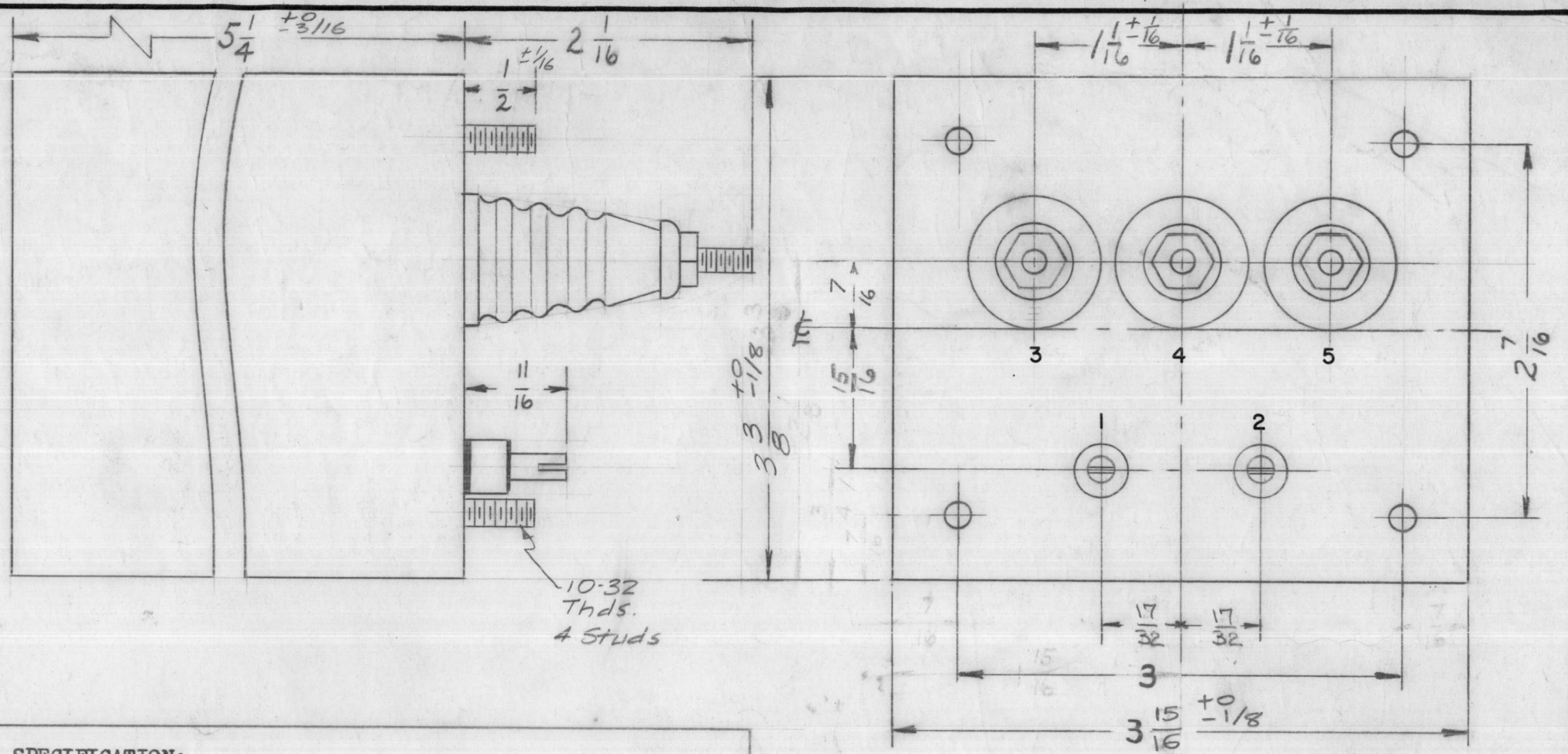
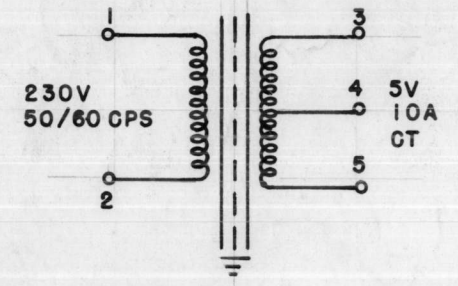
USED ON

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE		REACTOR, 2 HENRY, 1.6A.	
MATERIAL			
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
		T.F.G.	JG
FINISH & SPEC. NO.		FINAL APPROVAL	
		AMB	
		TF-200 D	

TF-201 D

THE TECHNICAL MATERIEL CORP.  
MAMARONECK NEW YORK

TF-201



**ELECTRICAL SPECIFICATION:**

PRIMARY: 230V AC, 50/60 CPS, SINGLE PHASE.

SECONDARY: 5V, 10A, CT.

INSULATION - PRIMARY - 2500 V - SECONDARY - 15 KV.

POTTING COMPOUND - SAND AND WAX.

**MECHANICAL SPECIFICATION:**

CASE: RECTANGULAR STEEL MIL TYPE KA, HERMETICALLY SEALED.

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

STAMPING: TERMINALS SHALL BE METAL STAMPED 1 to 5 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.

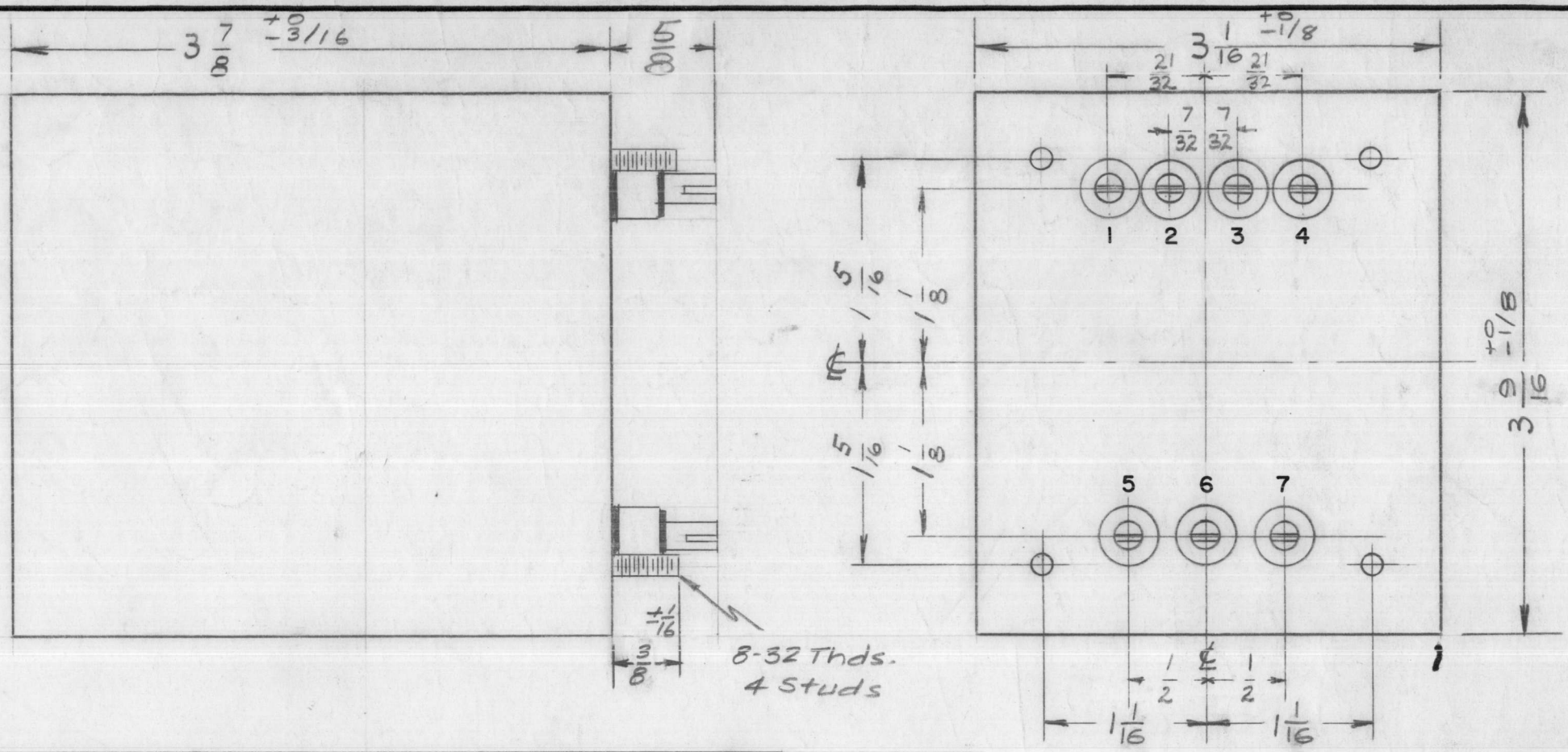
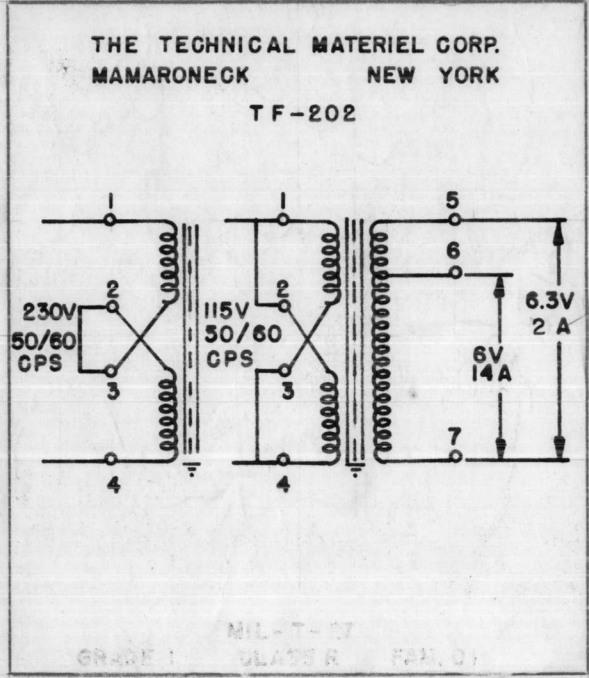
D		ADDED TOL +/- 1/16 ON 1/16 (2 PLACES)	2.27.68	18793	HLG.	MM	EFM
C	1	POTTING COMPOUND ADD. TO SPEC	4.15.65	13889	HLG.	file	JCS
B	1	NOTE ADDED (MIL-T-27A)	6.30.60	2572	HLG.	JCS	JCS
A	-	15KV. Was 25KV	11/19/58	-	HLG.	JG	ARB
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.

TOLERANCES: A  
SCALE: 1-1036  
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.  
REMOVE ALL BURRS AND SHARP EDGES

6	GPT-10K	AX-103	11-6-58
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 (5V)	
		TORILLO	ARB
		16	
		85	203
		TF-201	D

TF-202 C



**ELECTRICAL SPECIFICATIONS:**

PRIMARY: 115/230 VAC, 50/60 CPS, SINGLE PHASE  
SECONDARY: 6.3V/2 AMPS AND 6 V/14 AMPS.

**MECHANICAL SPECIFICATIONS:**

CASE: RECTANGULAR STEEL, MIL TYPE JB, HERMETICALLY SEALED.  
FINISH: TMC SMOOTH GREY ENAMEL (S-115), EXCEPT TERMINAL END.  
STAMPING: TERMINALS SHALL BE METAL STAMPED 1 to 7 AS SHOWN. OPPOSITE END SHALL BE RUBBER STAMPED AS SHOWN.

~~TRANSFORMER SHALL BE IN ACCORDANCE WITH~~  
~~MIL-T-27A and AMENDMENT~~  
~~GRADE 1 CLASS B PART 01~~  
~~MIL SPEC T-27A~~

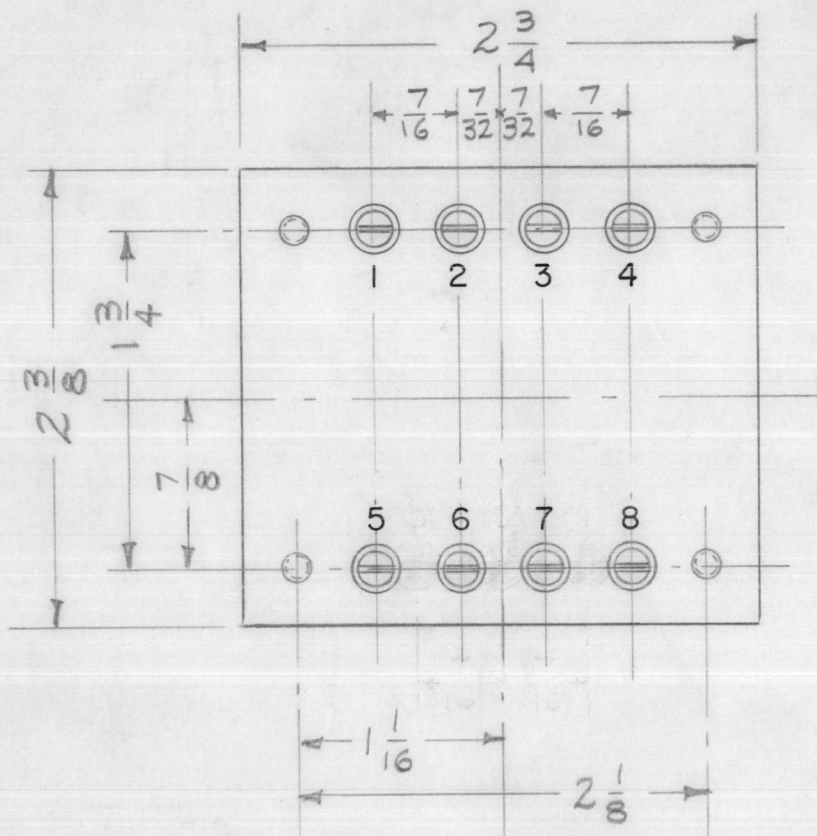
NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
C	1	5/8 DIM. WAS 1/16	9/27/63	10102		JOB	ARB
B	1	NOTE ADDED (MIL-T-27A)	6-30-60	2572		File	15
A	*	21/32 WAS 5/8	11/2/58			File	86. ARB
TOLERANCES			SCALE: 1-1101				
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. ±							

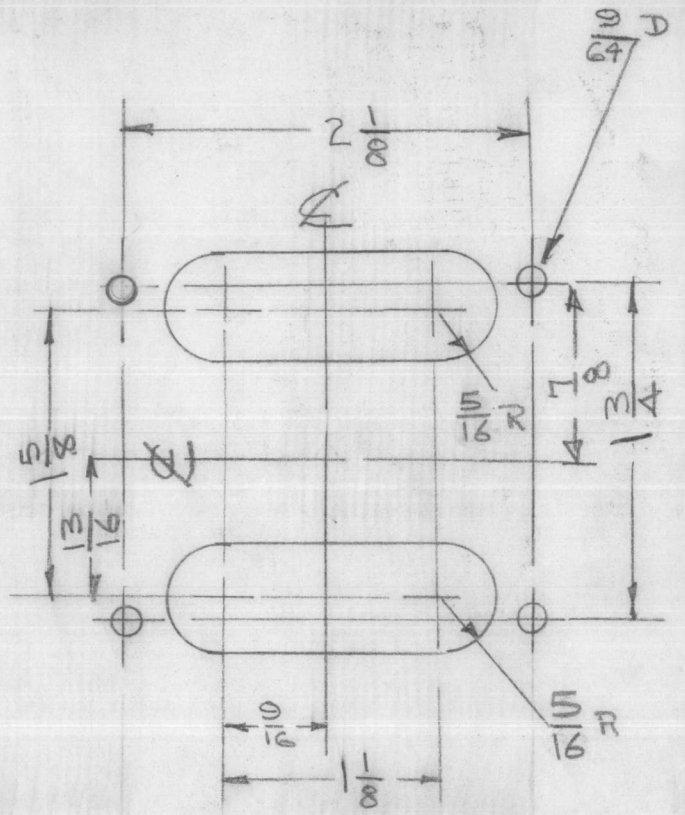
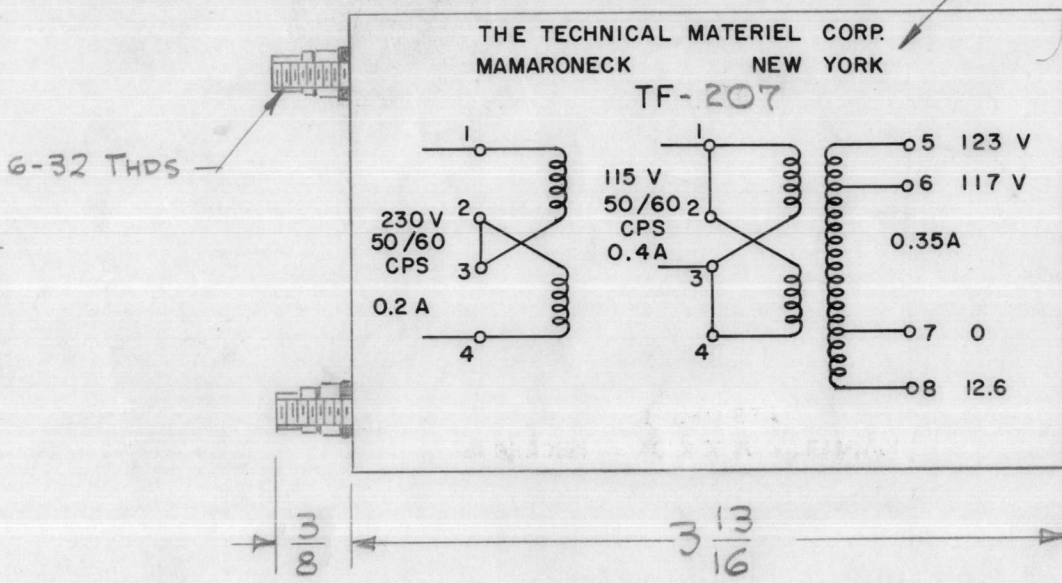
REQ. PER UNIT	1	GPT-10K	AX-104	ASS'Y. NO.	11-8-58	DATE
USED ON						

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
STOCK SIZE			
TRANSFORMER, POWER, STEP DOWN, FILAMENT (6.3V)			
MATERIAL			
		TORILLO 16	ARB
TYPE & TEMPER		HEAT TREAT. SPEC.	DRAWN
			CHECKED
			FINAL APPROVAL
		TF.G	203
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
		TF-202	C

TF-207 B.



STAMP CASE AS SHOWN BLACK GOTHIC.



MOUNTING DETAIL

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.

**ELECTRICAL DATA**  
 PRIMARY — 115/230 V, 50/60 CPS.  
 SECONDARY — 117/123 V, RMS. 40 W @ 117 V, OR 42 W @ 123 V, 12.6 V @ .3 AMP.  
 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

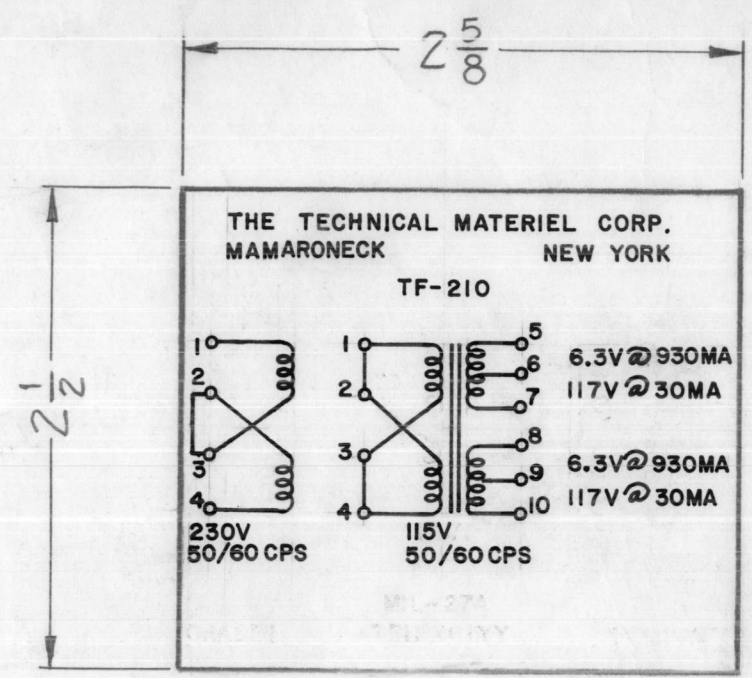
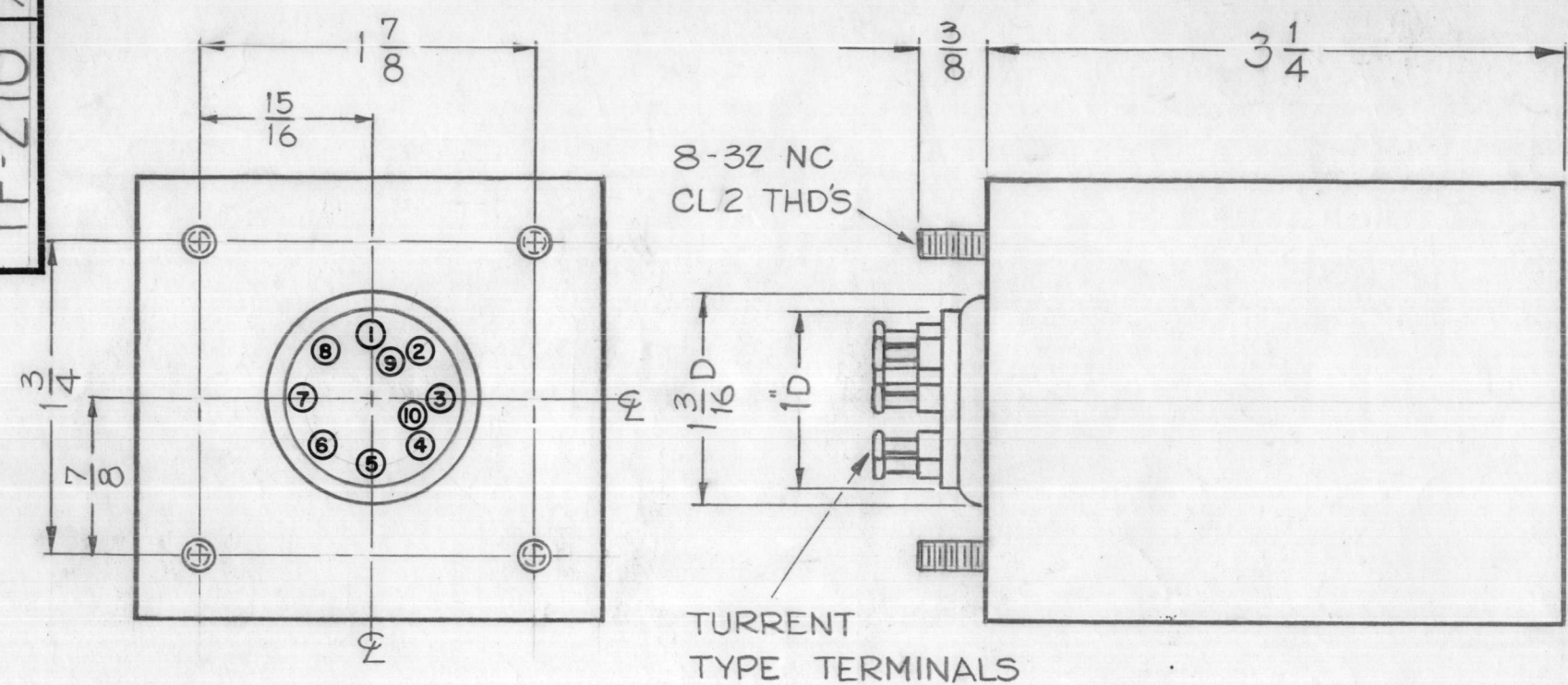
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	NOTE ADDED (MIL T-27-A)	6-30-60	2572			
A	1	ON MTS DETAIL-1-5/8 WAS 1-1/2 5/16 R WAS 3/32 R	10/14/59	1435			

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. ±		

REQ. PER UNIT	MODEL	PROJECT NO.	ASSY. NO.	DATE
1	MCU-2	ATS-50(70)		6-11-59
USED ON				

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		STOCK SIZE	TRANSFORMER, POWER,	
		MATERIAL	STEP-UP	
			APPROVED 6-11-59	
			DRAWN	
			CHECKED	
			FINAL APPROVAL	
			ELEC. DES. APP	TF-207 B
			MECH. DES. APP	

TF-210 A



**NOTICE TO PERSONS RECEIVING THIS DRAWING**

THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence and engineering information only and may not be reprinted or used to manufacture anything shown herein without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.

Property of:  
THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK, NEW YORK

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

**ELECTRICAL SPECIFICATIONS ~**

PRIMARY ~ 115/230V, 50/60 CPS  
 SECONDARY ~ 1-WINDING  
 a ~ 6.3V @ 900 MA BETWEEN TER. 5 & 6  
 b ~ 123.3V @ 30MA " " 5 & 7  
 2-WINDING  
 a ~ 6.3V @ 900 MA BETWEEN TER. 8 & 9  
 b ~ 123.3V @ 30MA " " 8 & 10

INSULATION ~ WIRING SHALL BE INSULATED FOR 1500V.

**MECHANICAL SPECIFICATIONS ~**

CASE ~ MIL TYPE YY HERMETICALLY SEALED, STEEL FINISH ~ TMC SMOOTH GREY ENAMEL (S115), EXCEPT TERMINAL END.

SIZE O/A ~ 2 1/2 X 2 5/8 X 3 1/4 HIGH, EXCLUDING STUDS AND TERMINALS.

STAMPING ~ TERMINALS SHALL BE METAL STAMPED, OPPOSITE END SHALL BE STAMPED AS SHOWN.

TRANSFORMER SHALL BE IN ACCORDANCE WITH MIL-T-27A AND AMEND. TYPE TFRXO1YY.

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
A	1	NOTE ADDED (MIL T-27A)	6-30-60	2572			

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

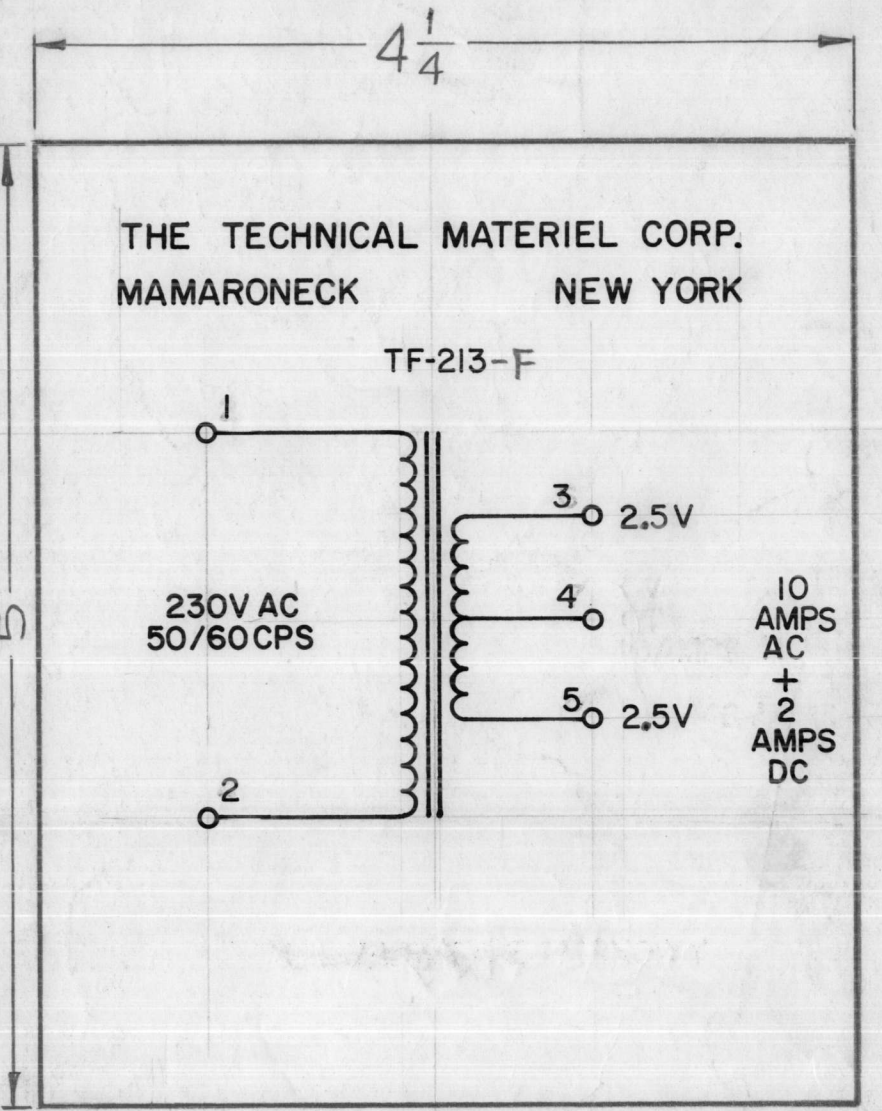
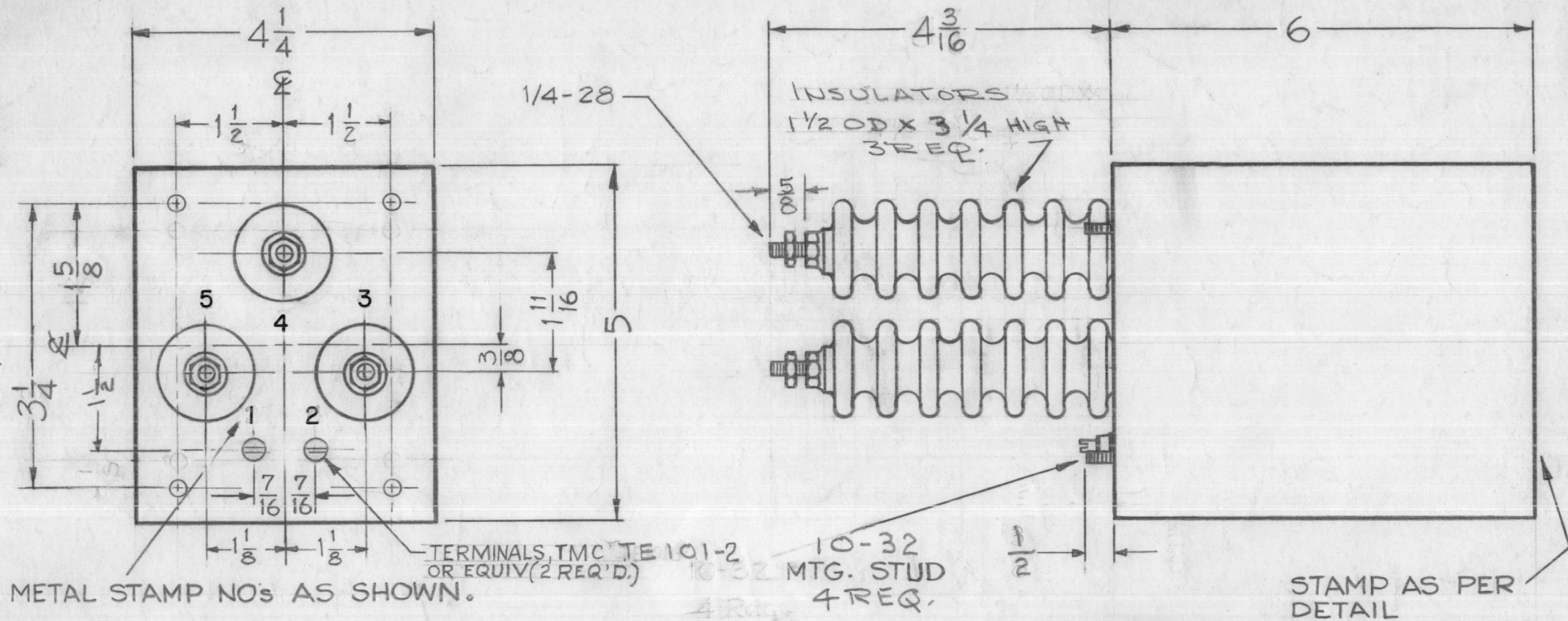
REQ. PER UNIT	ISK	PROJECT NO.	ASS'Y. NO.	DATE
				10-21-59

USED ON

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	STOCK SIZE	TRANSFORMER, POWER	
	MATERIAL		
		J.C. Biele	
		TYPE & TEMPER	HEAT TREAT. SPEC.
		DRAWN	CHECKED
			FINAL APPROVAL
		FINISH & SPEC. NO.	ELEC. DES. APP. MECH. DES. APP.
			TF-210 A

TF-213

MODEL	FUNCTION
GPT-40K	FILAMENT TRANSFORMER FOR 6895 TUBE



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 ~

Secondary: 5.0 Volt Centertapped  
10 Amp AC + 2 Amp DC  
Insulated for 25KV

~ MECHANICAL SPECIFICATIONS ~

Case: Rectangular, Steel, MIL Type YY, Hermetically Sealed.  
Finish: TMC Smooth Gray Enamel (TMC S-115) Except terminal end.  
Size: 5x4 1/4 x 6, Excluding Studs & Terminals.  
Stamping: Terminals shall be metal stamped 1-2-3-4-5 as shown opposite end shall be stamped in Black as shown

POTTING COMPOUND: SAND AND WAX.  
Transformer shall be in accordance w/ MIL T-27A and amend.  
MIL Type: TF1RX01YY

Stamping Detail  
Black Gothic

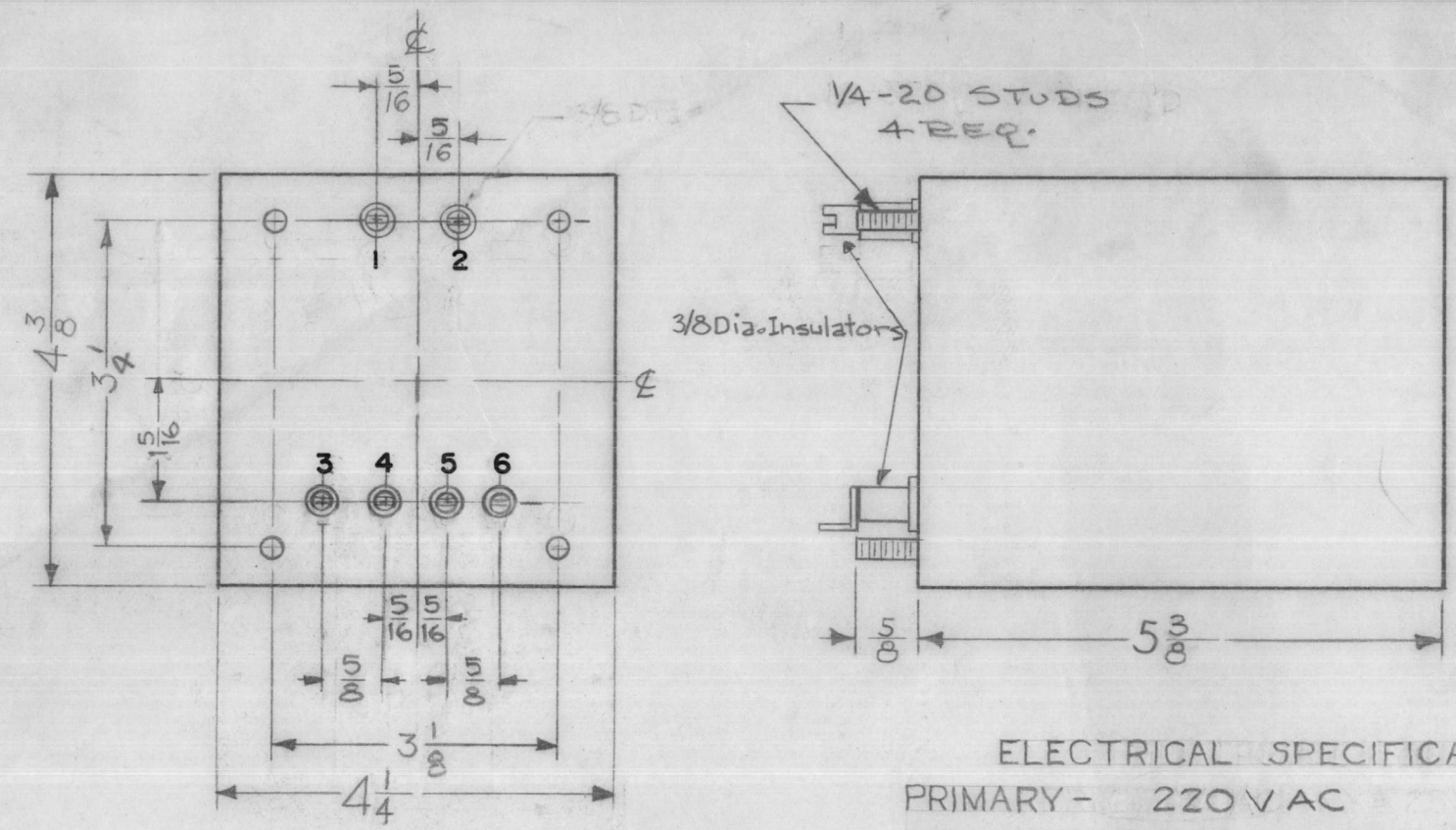
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
H	1	MECH. SPECS; POTTING COMPOUND ADD.	4.15.65	13889	ad	JCB	Em
G	1	TERM. WAS TE101-3	8.10.64	12017	LB	JCB	Em
F	1	TERMINAL NOTE ADDED	4-15-64	11227	A.M.	JCB	Em
E	1	4 3/16 DIM. WAS 3 7/8	3-15-63	8575	RC	JCB	Em
D	1	DIM. 3-7/8 WAS 4-7/8	3-27-62	6543	G.S.	JCB	Em
C	1	1/4-28 STUD WAS 1/4-20	10-4-60	3133	JCB	JCB	Em
B	1	NOTE ADDED (MIL T-27A)	6-30-60	2572	JCB	JCB	Em
A	2	Mtg. Studs Relocated	1/12/60	1751	J.C.B.	JCB	Em
A	1	+2 AMPS DC WAS +6 AMPS DC					

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. ±		

6	GPT-40K			12-22-59
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		DISTRIBUTION (Step-Down)	
TYPE & TEMPER		HEAT TREAT. SPEC.	
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
		DRAWN	CHECKED
		FINAL APPROVAL	
		Em	JCB
		TF-213	H

TF-214 B



**ELECTRICAL SPECIFICATIONS**

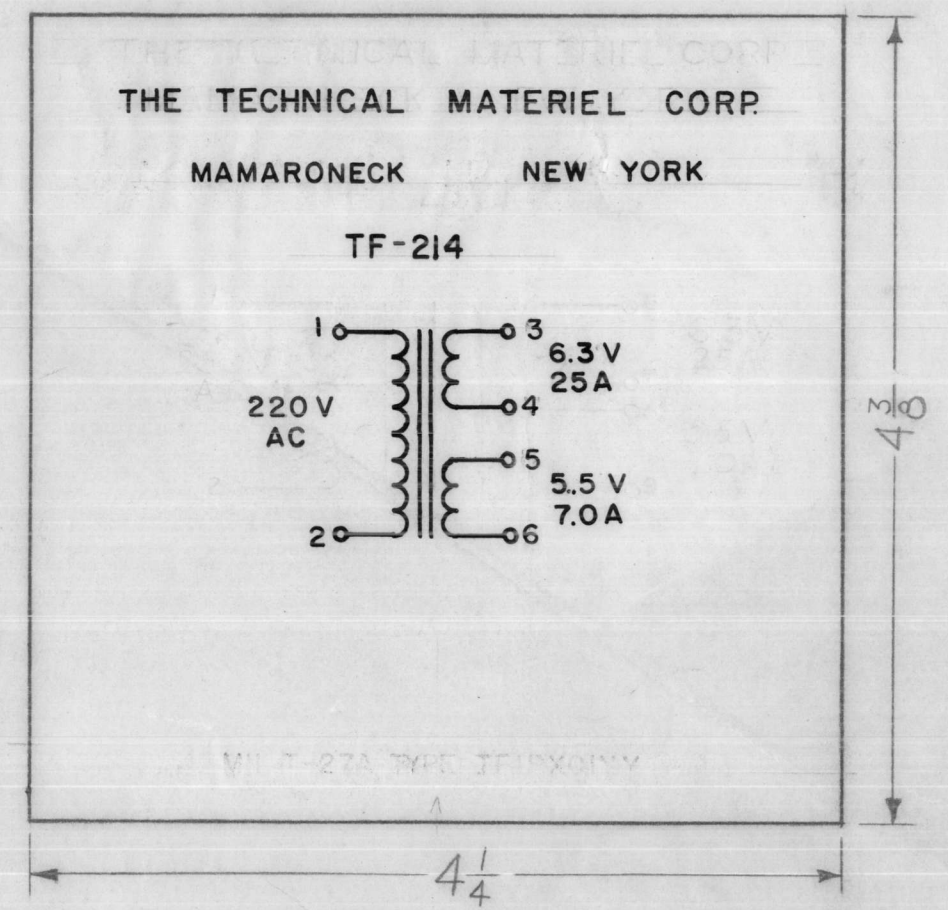
PRIMARY - 220 V AC  
 SECONDARY - 6.3 V AT 25 AMPS  
 5.5 V AT 7 AMPS  
 WORKING VOLTAGE - 2500  
 TEST VOLTAGE - 5000

**MECHANICAL SPECIFICATIONS**

CASE - RECTANGULAR, STEEL, MIL. TYPE YY, HERMETICALLY SEALED  
 FINISH - TMC SMOOTH GRAY ENAMEL (S-115) EXCEPT TERMINAL END  
 SIZE -  
 STAMPING - TERMINALS SHALL BE METAL STAMPED. OPPOSITE END SHALL BE STAMPED IN BLACK GOTHIC (SEE STAMPING DETAIL)

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.

MODEL	FUNCTION
GPT-40K	FILAMENT TRANSFORMER, CROW BAR



STAMPING DETAIL  
 LETTERING BLACK GOTHIC

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B		TERM 3, 4, 5 & 6 PHYSICALLY MADE AS 1 & 2	2.3.67	17770	4/10	JK/10	JK
A	1	NOTE ADDED (MIL T-27A)	6.30.60	2572	JK	JK	JK

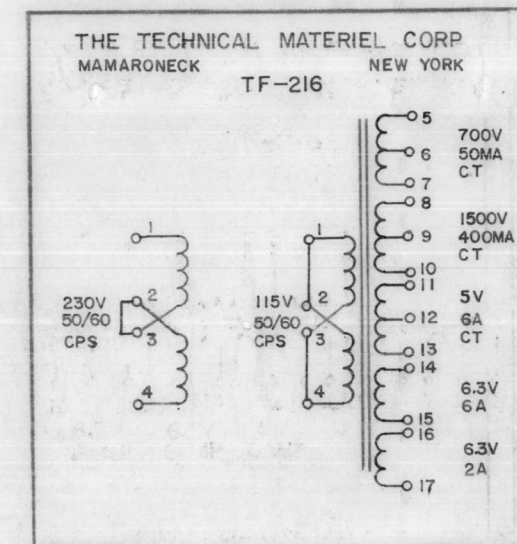
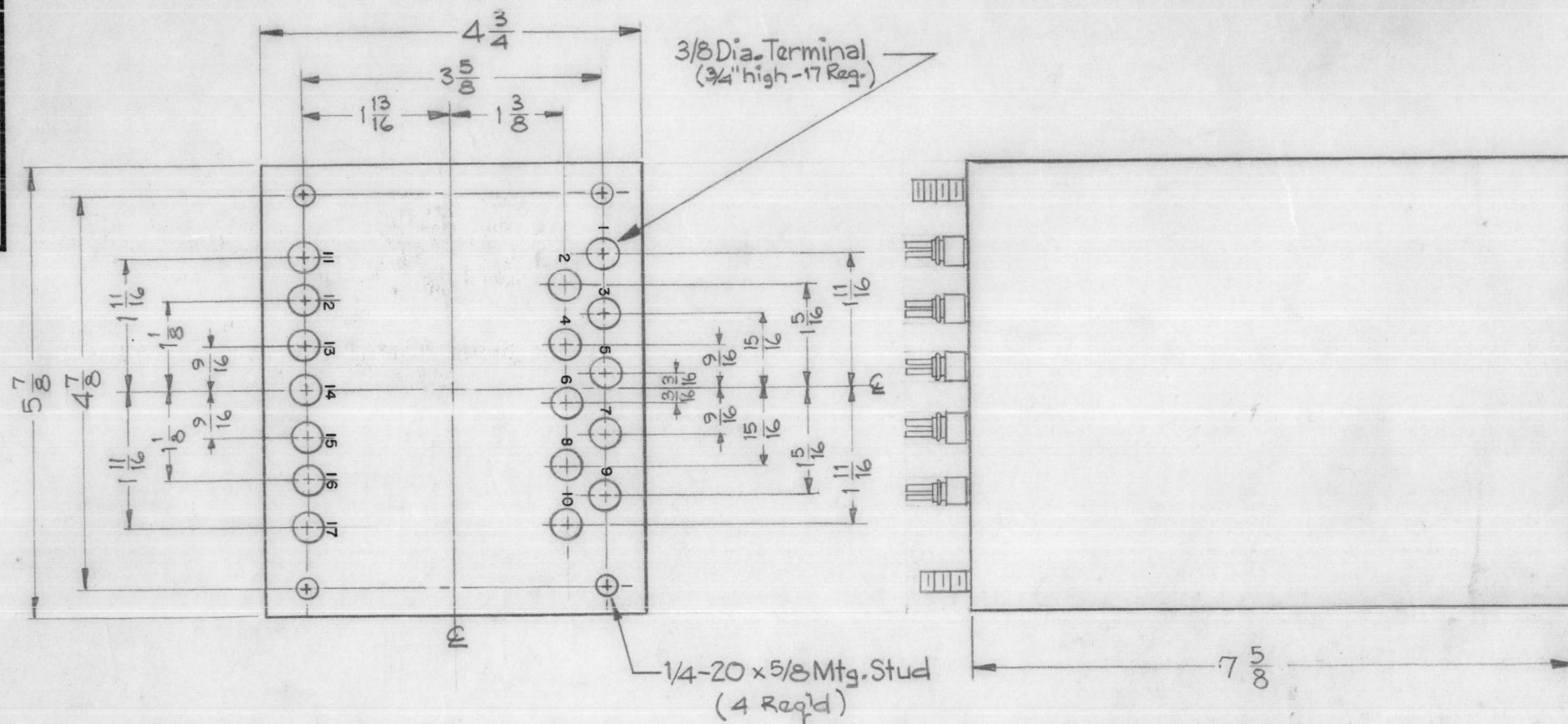
TOLERANCES		SCALE:
DEC. DIM. ±	A	MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION: REMOVE ALL BURRS AND SHARP EDGES
FRAC. DIM. ±		
ANGULAR DIM. ±		

1	GPT-40K			12-22-59
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	TRANSFORMER, POWER DISTRIBUTION (STEP-DOWN)	
		MATERIAL		
			AB JK 2B	
		TYPE & TEMPER	DRAWN	CHECKED
		HEAT TREAT. SPEC.	EM JK	FINAL APPROVAL
		FINISH & SPEC. NO.	ELEC. DES. APP	MECH. DES. APP
			TF-214	B

TF-216 B

MODEL	FUNCTION
GPT-40K	POWER TRANSFORMER BIAS SUPPLY



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: 230V.  
SECONDARY: 700V. C.T. at 50 MA,  
1500V. C.T. at 400 MA  
5V. at 6 Amps  
6.3V. at 6 Amps  
6.3V at 2 Amps  
A. 1500 V. C.T., Winding for Choke  
input 750 V.DC 400 MA  
B. 700V. C.T., Winding for Condenser  
input 400 VDC 50MA  
INSULATION: 3KV. Test ; 2.5KV. Working.

— MECHANICAL SPECIFICATIONS —

CASE: Rectangular, Steel, MIL Type YY, hermetically Sealed.  
FINISH: TMC Smooth Gray, Enamel (TMC-S-115) Except terminal end.  
Size: 4 3/4 x 5 7/8 x 7 5/8 high, Excluding Studs & Terminals  
Stamping: Terminals Shall be Metal Stamped 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17, Opposite end shall be Stamped in Black as per Stamping Detail.

Transformer shall be in accordance with MIL-T-27A and amend.  
MIL-T-27A Type I (P/R) X 02 79

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	SPEC "A" WAS "750V.C.T. 750V."	3-7-63	8396	RC	JCB	JCB
B	2	SPEC "B" WAS "350V.C.T. 350V."					
A	1	NOTE ADDED (MIL T-27A)	6-30-60	2572	JCB	JCB	JCB
TOLERANCES		SCALE: 1/2					
DEC. DIM. ±	FRAC. DIM. ±	MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION: REMOVE ALL BURRS AND SHARP EDGES					
ANGULAR DIM. ±							

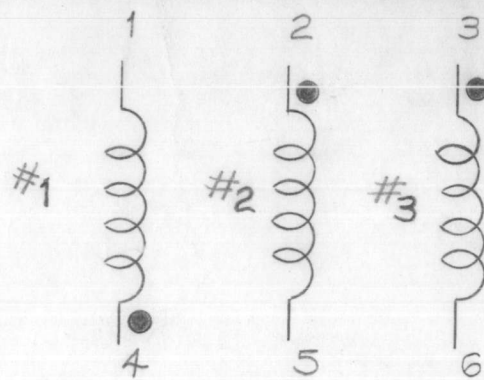
REQ. PER UNIT	MODEL	PROJECT NO.	ASSY. NO.	DATE
	GPT-40K			12-23-59
USED ON				

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			<b>THE TECHNICAL MATERIEL CORP.</b> MAMARONECK, NEW YORK	
STOCK SIZE			TRANSFORMER, POWER.	
MATERIAL			STEP-DOWN & STEP-UP	
TYPE & TEMPER		HEAT TREAT. SPEC.	DRAWN	CHECKED
FINISH & SPEC. NO.		ELEC. DES. APP. MECH. DES. APP.		FINAL APPROVAL
			Em	TRB
				TF-216 B



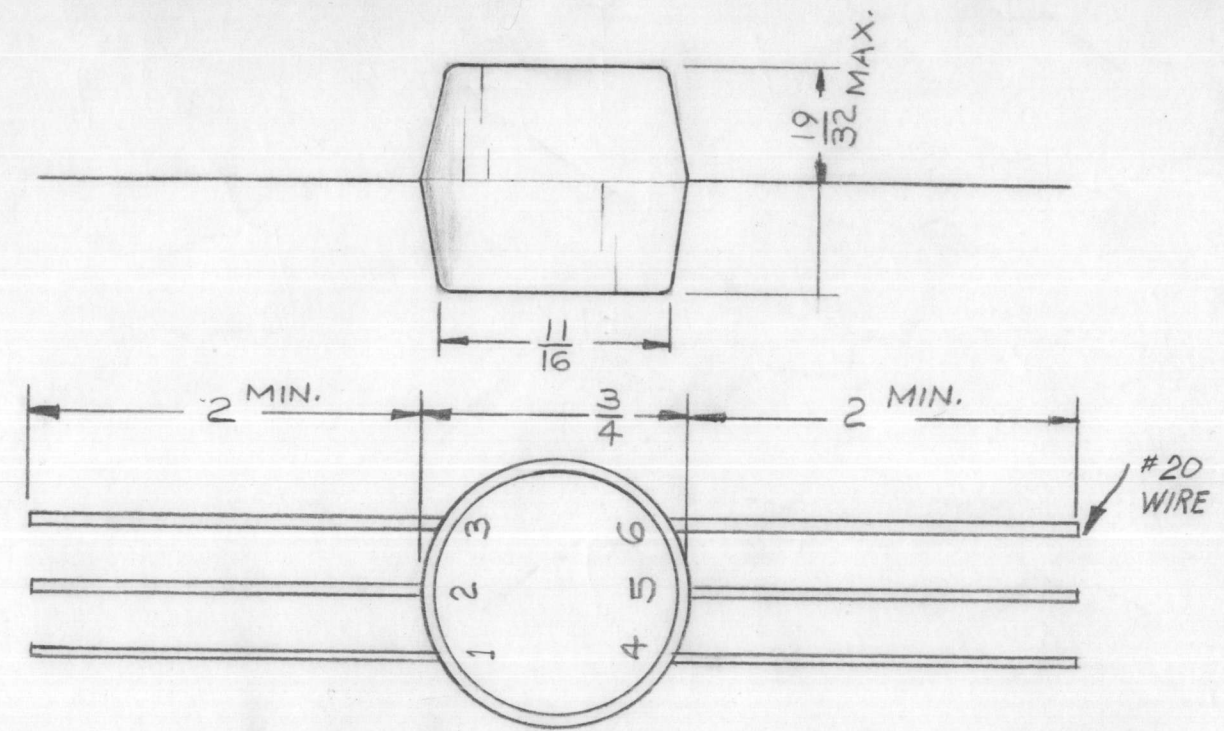
CODE	INDUCTANCE $\pm 20\%$
B	10 MH
G	22.0 MH
K	4.7 MH
O	1.0 MH
Q	0.47 MH
U	0.1 MH

CODE	RATIO $\pm 3\%$
1	1:1:1
3	3:1:1
5	5:1:1
13	3:3:1
15	5:5:1

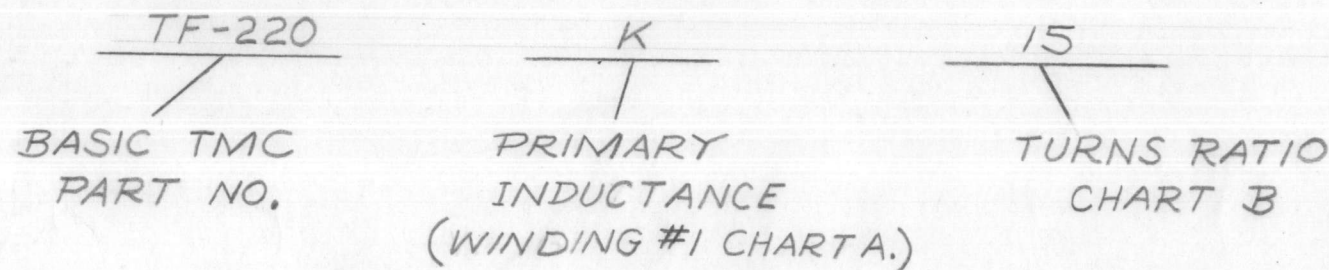


**SCHEMATIC DIAGRAM**

● INDICATES SWING  
SAME POLARITY



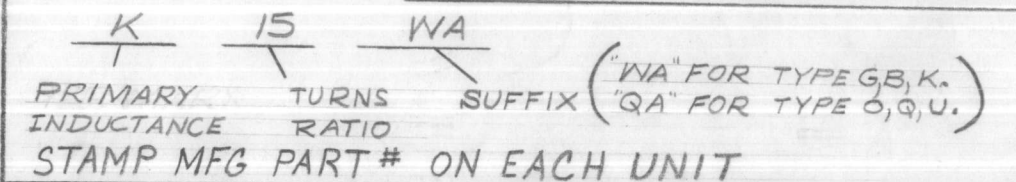
NOMENCLATURE SHALL BE IN THE FOLLOWING FORM:



SPECIFICATIONS

UNIT MEETS GRADE 5, CLASS R OF MIL-T-27A  
(EXCEPT FLAMMABILITY) 5 TO 25  $\mu$  SEC.  
PULSE DURATION ~ 0.05 TO 25  $\mu$  SEC. 10 MC  
PULSE REPETITION RATE ~ UP TO 10 MC.  
WEIGHT ~ 1/3 OUNCE  
VOLTAGE RATING BETWEEN WINDING ~  
500 VOLTS RMS.  
CASE ~ EPOXY RESIN

PURCHASING NOTE :  
MANUFACTURERS # AS FOLLOWS:



NOTICE TO PERSONS RECEIVING THIS DRAWING

THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.

Property of:  
**THE TECHNICAL MATERIEL CORPORATION**  
MAMARONECK, NEW YORK

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	7	PURSE ENERGY DELETED	10-4-60	2995	RV220	[Signature]	[Signature]
	6	ADDED EXCEPT FLAMMABILITY					
	5	MFG. PART NO. NOTE ADDED					
	4	#20 WIRE ADDED TO TRANS.					
	3	FRAC DIM. 1/32 WAS 1/64.					
	2	ON CHART B $\pm 3\%$ WAS ADDED					
	1	ON CHART A $\pm 20\%$ WAS ADDED					
A	1	REDRAWN & REVISED	9-19-60				

TOLERANCES: DEC. DIM.  $\pm$  1/32, FRAC. DIM.  $\pm$  1/32, ANGULAR DIM.  $\pm$  .

SCALE: 5401-94

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

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		<b>THE TECHNICAL MATERIEL CORP.</b> MAMARONECK, NEW YORK	
STOCK SIZE		<b>TRANSFORMER, PULSE</b>	
MATERIAL			
TYPE & TEMPER. HEAT TREAT. SPEC.		R0220	[Signature]
FINISH & SPEC. NO.		AR.F.B.	[Signature]
ELEC. DES. APP. MECH. DES. APP.		TF-220	B

TF 221

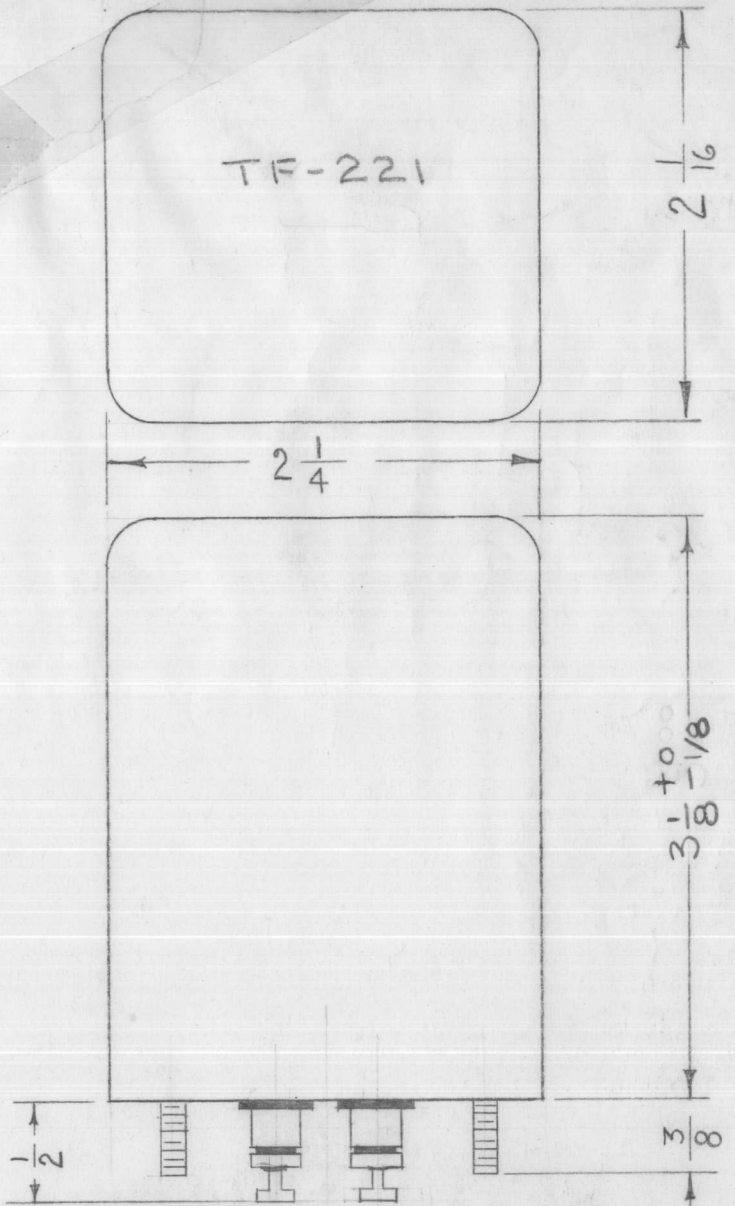
STAMP TMC TA NO (TF-221) AS SHOWN, 1/8 HIGH BLACK GOTHIC.

NOTICE TO PERSONS RECEIVING THIS DRAWING

THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.

Property of:  
**THE TECHNICAL MATERIEL CORPORATION**  
 MAMARONECK, NEW YORK

ELECTRICAL SPECIFICATIONS  
 .03 Hy. MINIMUM @ 60 ~, 3V  
 1.2 AMPS DC.  
 APPROX. .4Ω DC RESISTANCE  
 INSULATION TEST: 1000 VOLTS



6-32 STUD  
 4 REQ.

REF: 5401-30

ISSUE ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
C	ADD MIN @ 60 ~ 3V TO SPECS. & 5401-30 REF	1.25.67	17740	RME	JCB	
B	3 1/8 +0/-1/8 WAS 3	8.8.64	12069	WB	JP.	EB
A	REVERSE LUGS TO FACE INSIDE ON BOTTOM OF TF-221	5/5/60	2234	CW	JCB	OF

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

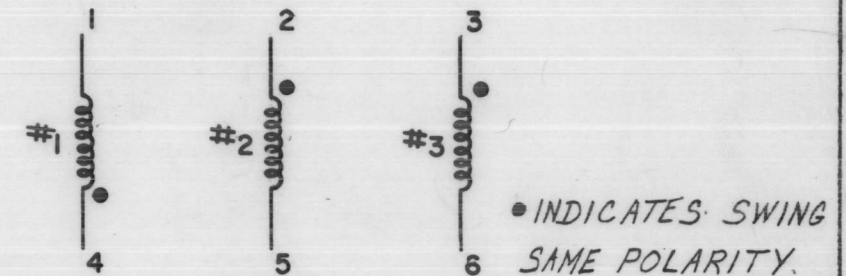
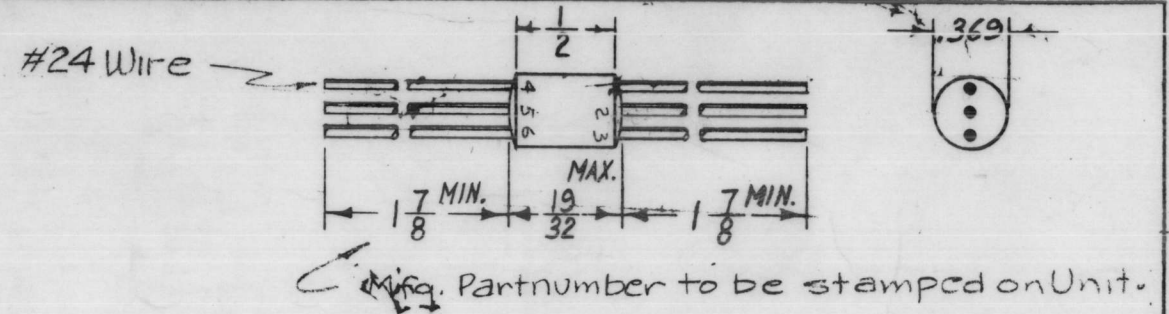
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
	CSS-1 CPP-2			4-21-60 4-21-60
USED ON				

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		<b>THE TECHNICAL MATERIEL CORP.</b> MAMARONECK, NEW YORK	
		CHOKER REACTOR	
		MATERIAL	
		TYPE & TEMPER	
		HEAT TREAT. SPEC.	
		FINISH & SPEC. NO.	
		ELEC. DES. APP.	
		MECH. DES. APP.	
		TF 221	C

TF-228

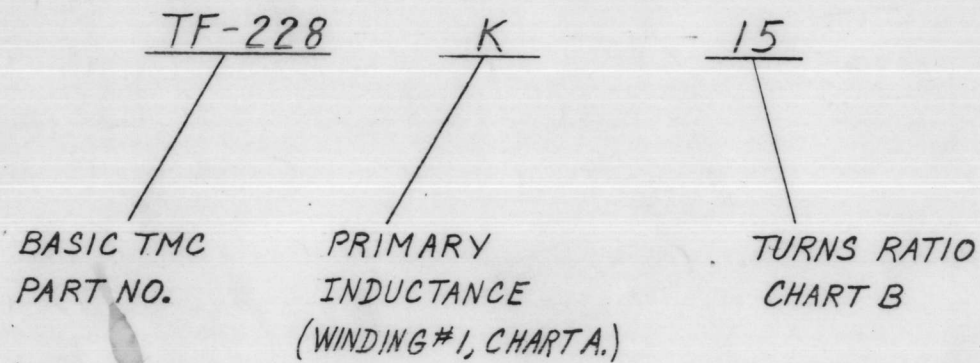
CHART A	
PRIMARY INDUCTANCE (WINDING #1)	
CODE	INDUCTANCE ±20%
B	10 MH
K	4.7 MH
O	1.0 MH
Q	0.47 MH
S	0.22 MH
U	0.1 MH
R	2.5 MH

CHART B	
TURNS RATIO ±3%	
CODE	RATIO
1	1:1:1
2	2:1:1
3	3:1:1
4	4:1:1
5	5:1:1
12	2:2:1
13	3:3:1
14	4:4:1
15	5:5:1



SCHMATIC DIAGRAM

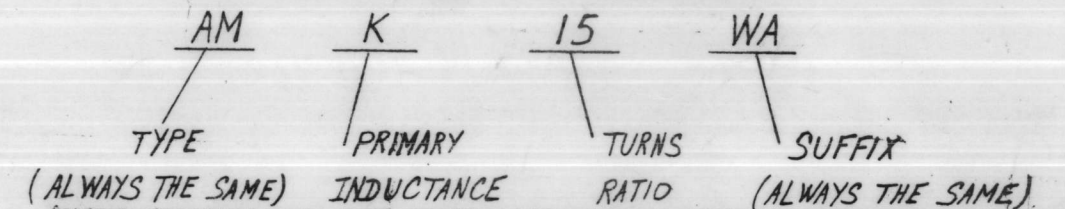
NOMENCLATURE SHALL BE IN THE FOLLOWING FORM:



SPECIFICATIONS

UNIT MEETS GRADE 5, CLASS R OF MIL-T-27A  
 PULSE WIDTH ~ 0.05 TO 5 μ SEC.  
 PULSE REPETITION RATE ~ UP TO 10 MC  
 WEIGHT ~ 5 GRAMS  
 VOLTAGE RATING BETWEEN WINDINGS ~ 500 VOLTS DC,  
 CASE ~ METAL (TUBULAR).

PURCHASING NOTE:  
 MANUFACTURERS # AS FOLLOWS:



NOTICE TO PERSONS RECEIVING THIS DRAWING

THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.

Property of:

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK, NEW YORK

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	ADD. CODE "K" TO CHART A	7-20-67	18420	1	[Signature]	RH
A	6	500 VOLTS DC WAS 800 VOLTS RMS	10/4/60	31	3	[Signature]	[Signature]
	5	MFG. PART NO. NOTE ADDED					
	4	#24 WIRE ADDED TO TRANS.					
	3	PRE. DIM. 1/32 WAS 1/64					
	2	ON CHART B'S ±3% WAS ADDED					
1	ON CHART A'S ±20% WAS ADDED						

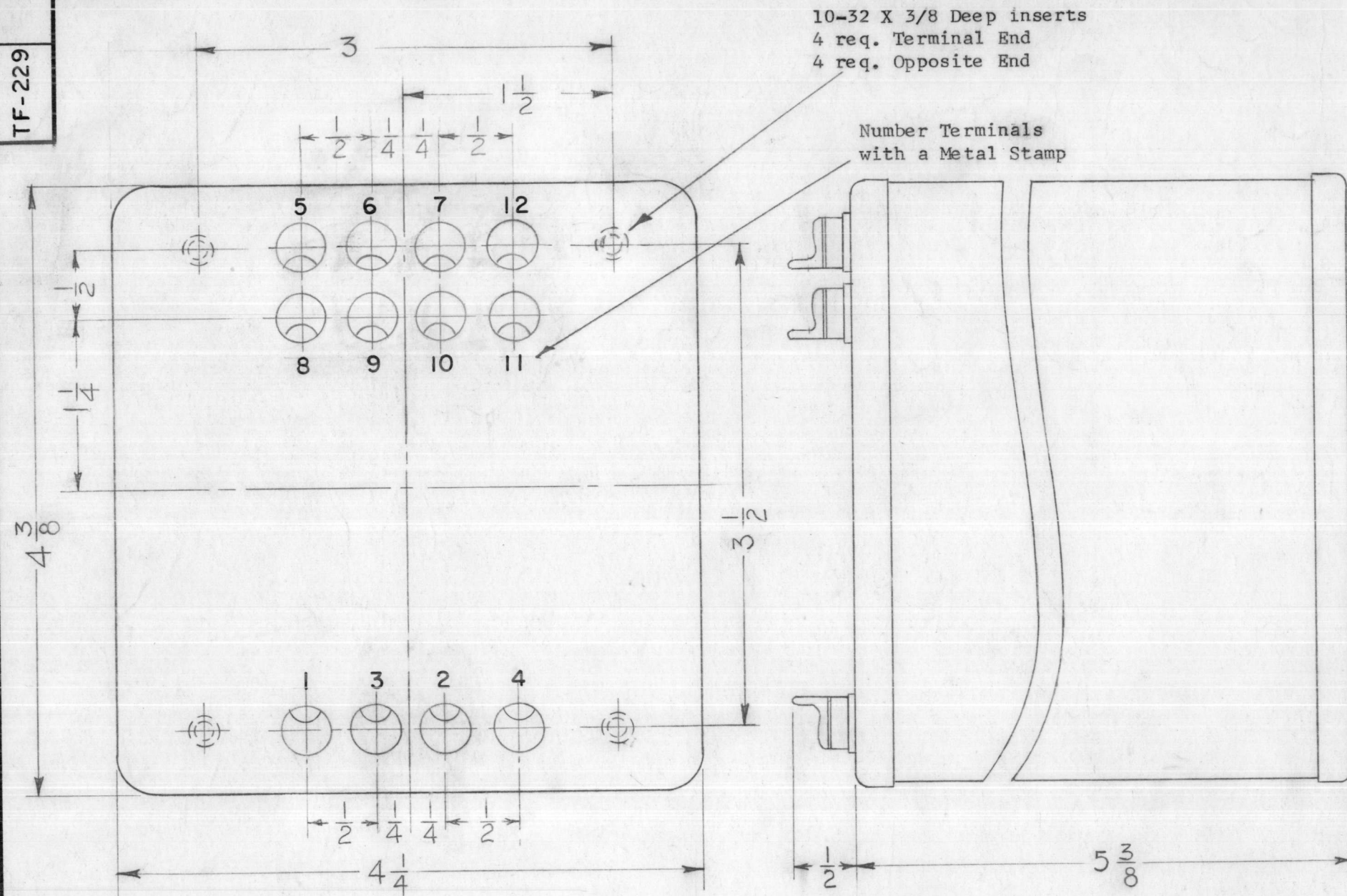
SCALE: S 401-94

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

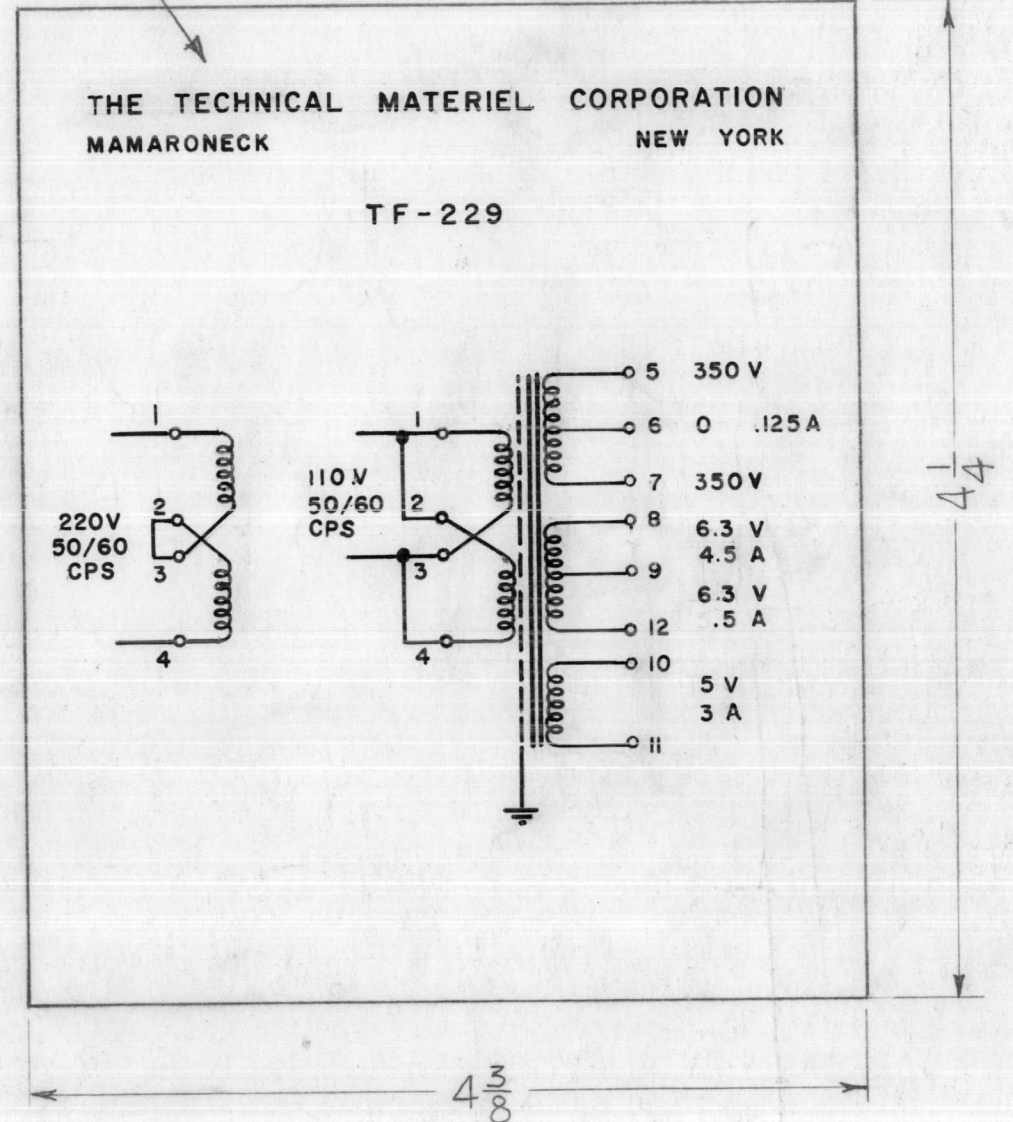
REQ. PER. UNIT	USED ON	
	MODEL	ASSY. NO.
		8-29-60

REG.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
			TRANSFORMER, PULSE	
			[Signatures]	
			FINAL APPROVAL ELEC. DES. APP. MECH. DES. APP.	TF-228 B

TF-229



Nomenclature, Schematic To Be Stamped On Case End Opposite Terminals.



TRANSFORMER, POWER: FILAMENT & PLATE. INPUT: 110-220 V, 50-60 CYCLE A.C. SINGLE PHASE. SECONDARY TERMINALS & RATINGS ARE THOSE SHOWN IN STAMPING DIAGRAM. HERMETICALLY SEALED IN RECTANGULAR METAL CASE. 12 SOLDER LUG TERMINALS, (8) 10-32 X 3/8 LONG THREADED INSERTS.

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.

ELECTROSTATIC SHIELD IS TO BE INSERTED BETWEEN PRIMARY & SECONDARY.

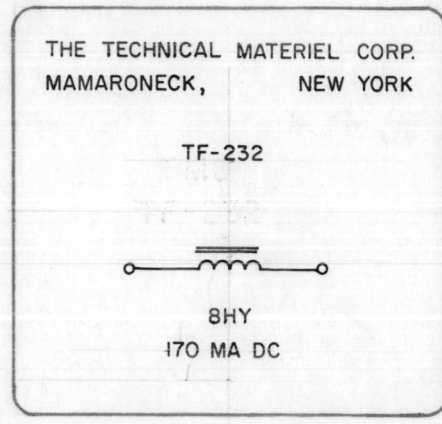
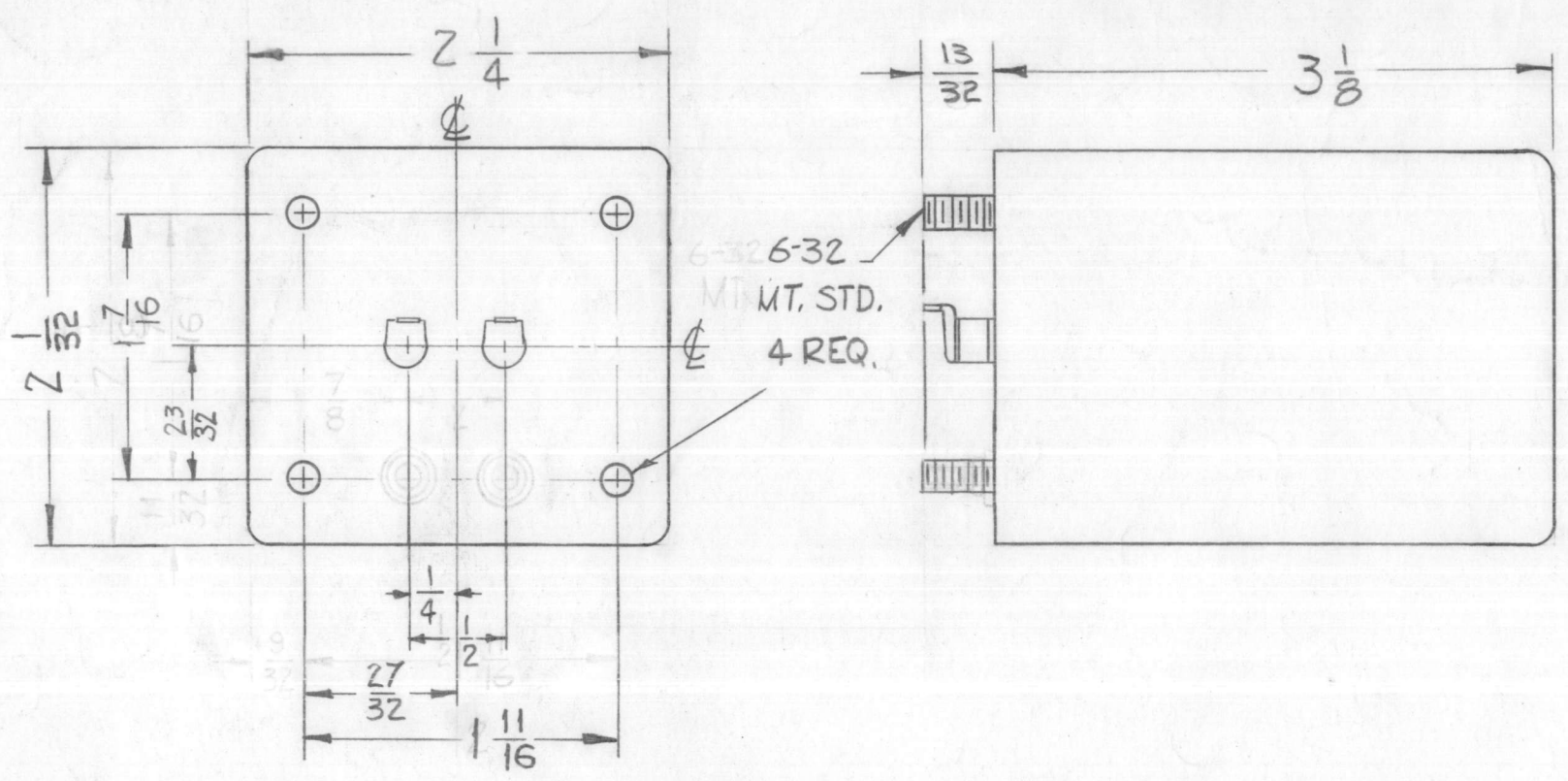
SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
-----	-------------	------	---------	--------	---------	-----------

UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/2°  
 SCALE: A  
 MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.  
 REMOVE ALL BURRS AND SHARP EDGES

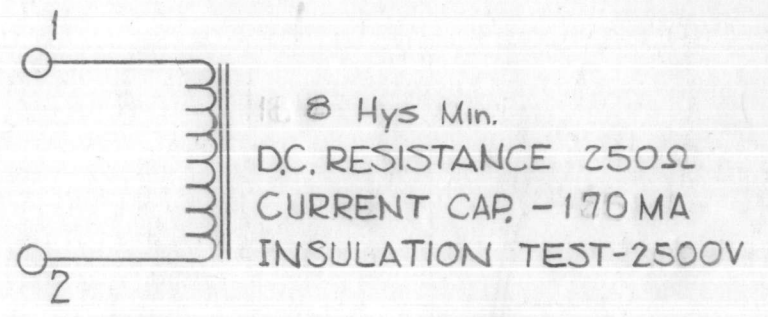
REQ. PER UNIT	MODEL	SECTION	ASS'Y. NO.	DATE
	VOX-5			1-4-61
	USED ON			

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE		TRANSFORMER, POWER	
MATERIAL		VOX-5	
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKER
			FINAL APPROVAL
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
			TF-229

TF-232 B



STAMP TOP AS SHOWN  
LETTERING 1/8 HIGH.



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 REQ.

Ref. Berkshire Trans. Corp. 4471

NOTICE TO PERSONS RECEIVING THIS DRAWING

THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.

Property of:  
THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK, NEW YORK

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	13/32 WAS 3/8 2-1/32 WAS 2-1/8, 3-1/8 WAS 3	7-9-63	9479	MB	M.B.	[Signature]
A	CURRENT CAP. WAS 150 MA; STAMPING ADDED	12-18-62	7883	[Signature]	[Signature]	[Signature]

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/2°

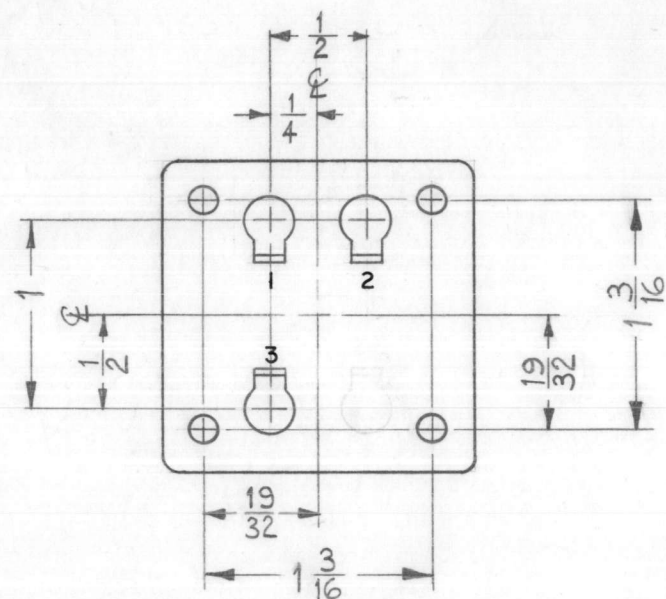
SCALE: A  
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT	MODEL	SECTION	ASS'Y. NO.	DATE
1	GPR-92			12-18-62
1	GPE-1			6-12-61

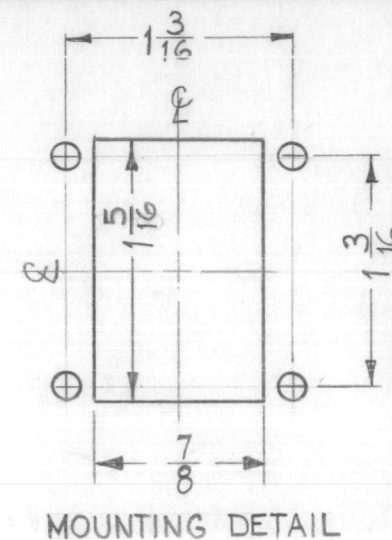
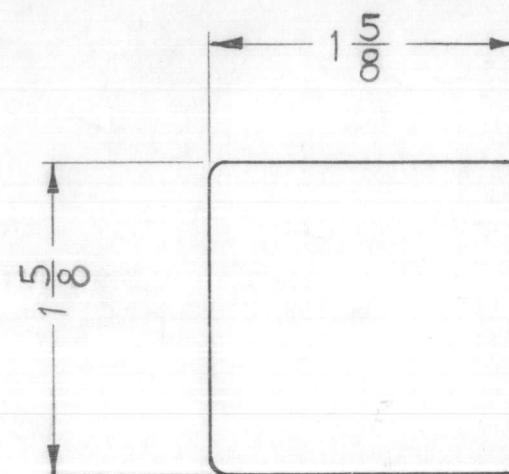
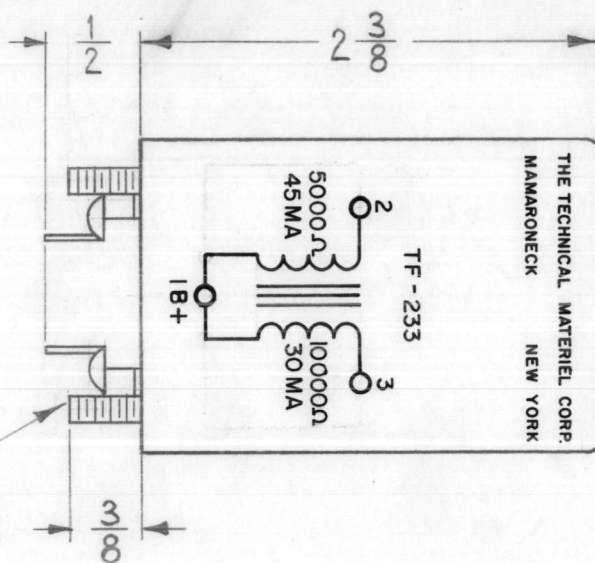
USED ON

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	STOCK SIZE	FILTER CHOKE	
	MATERIAL		
		RUZZO [Signature]	[Signature]
	TYPE & TEMPER	DRAWN	CHECKER
	HEAT TREAT. SPEC.	[Signature]	[Signature]
	FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.
		SI15 T.M.C. GRAY	TF-232 B

TF-233



6-32 MTG. STD.  
4 REQ.



MOUNTING DETAIL

NOTICE TO PERSONS RECEIVING THIS DRAWING

THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.

Property of:

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK, NEW YORK

ELECTRICAL SPECIFICATIONS~

PRIMARY ~ 5000Ω @ 45 ± 10% MA DC.  
SECONDARY ~ 10,000Ω @ 30 ± 10% MA DC.  
POWER ~ 5W  
FREQ. RESPONSE ~ 300 CPS TO 10,000 CPS  
WITHIN 3db.  
INSULATION ~ 1500 VOLTS

NOTES~

- 1~ LETTERING & LINE WORK TO BE BLACK AS SHOWN.
- 2~ 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

FINISH ~  
S115 TMC SMOOTH GREY ENAMEL.

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/2°

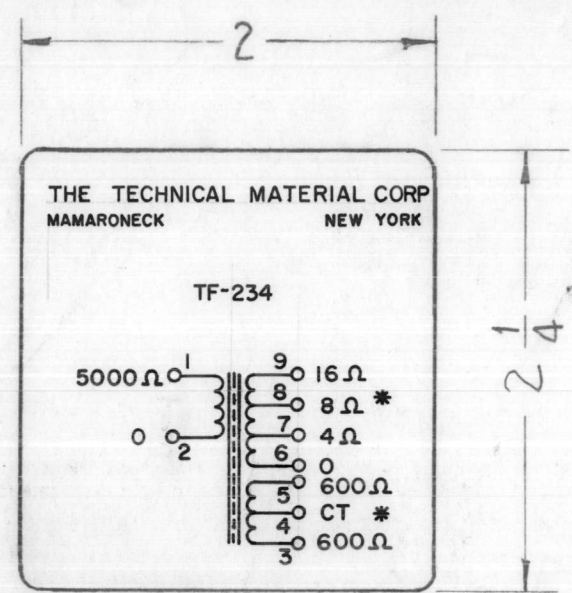
SCALE: FULL (Do Not Scale).  
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.  
REMOVE ALL BURRS AND SHARP EDGES

1	GPE-1			7-7-61
REQ. PER UNIT	MODEL	SECTION	ASS'Y. NO.	DATE
	USED ON			

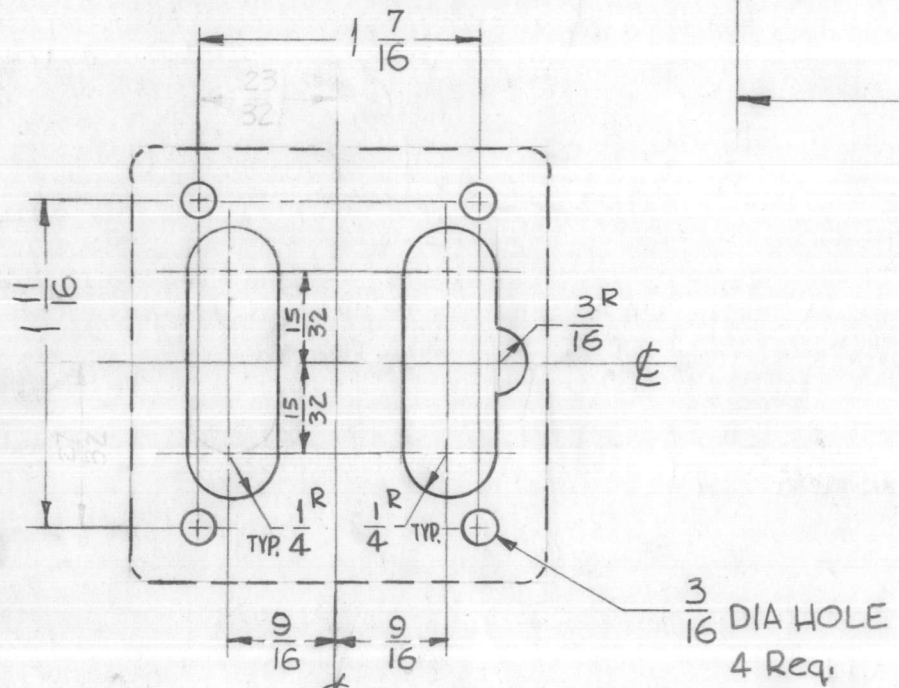
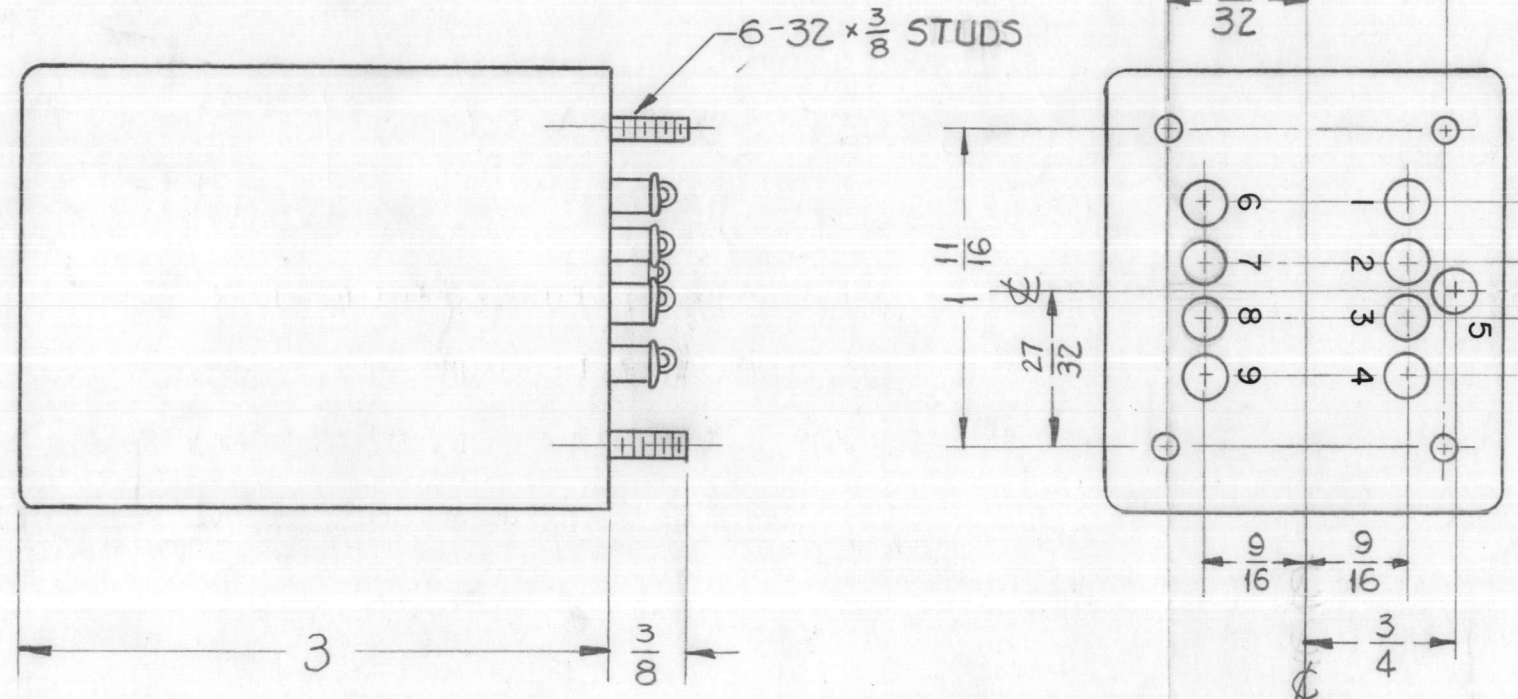
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	STOCK SIZE	TRANSFORMER, MODULATION	
	MATERIAL		
		<i>M.A.F.</i>	<i>J.H.O.</i>
	TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN CHECKER FINAL APPROVAL
	SEE NOTE		<i>RF</i>
	FINISH & SPEC. NO.	ELEC. DES. APP. MECH. DES. APP.	TF-233

TF-234

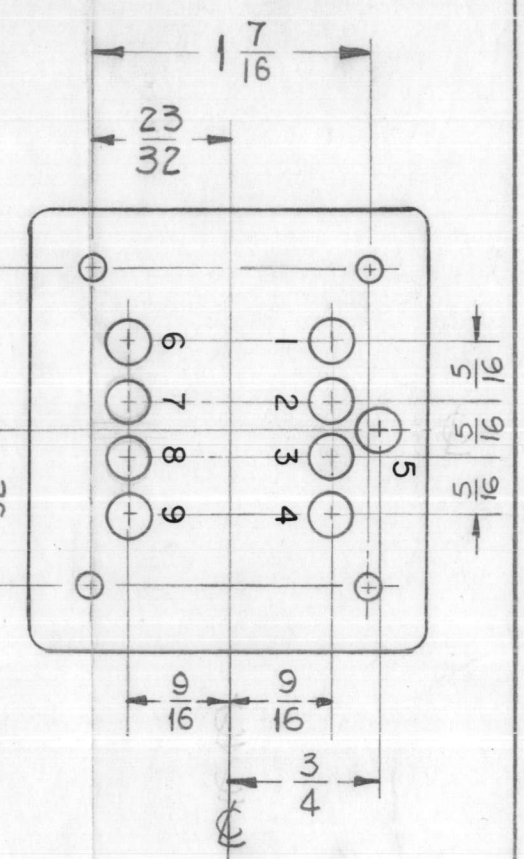
\*PRI-IMP 5000Ω WITH BOTH SEC. LOADED



STAMPING DETAIL



DRILLING PLAN



ELECTRICAL SPECIFICATIONS

MAX PRI CURRENT 50 MA  
 MAX POWER OUTPUT 3 WATTS  
 HIGH POT at 60 CPS 1500 volts

MECHANICAL SPECIFICATION

CASE- Hermatically sealed in rectangular sealed case.  
 FINISH- S115 smooth grey enamel.  
 STAMPING- Black lettering (See detail)  
 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.

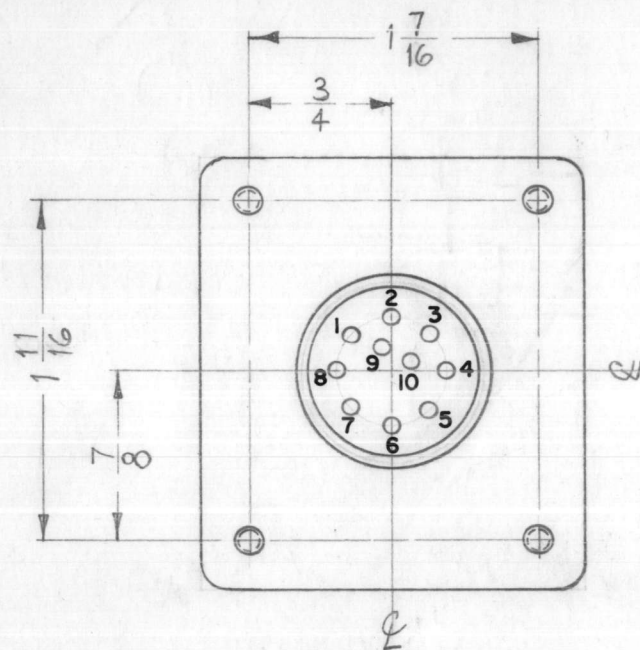
SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
UNLESS OTHERWISE SPECIFIED:		SCALE: S-401-30#4231				
DIMENSIONS ARE IN INCHES		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.				
TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/2°		REMOVE ALL BURRS AND SHARP EDGES				

REQ. PER UNIT	MODEL	SECTION	ASS'Y. NO.	DATE
1	GPR-92			9-18-61
USED ON				

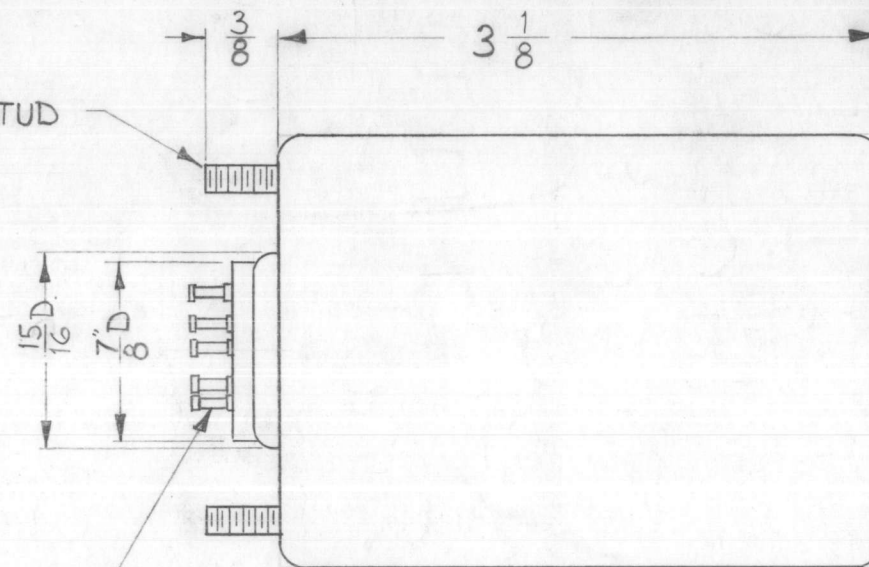
REQ. ITEM	PART NO.	GELLMAN	DESCRIPTION	SYMBOL
STOCK SIZE		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		
MATERIAL		TRANSFORMER, AUDIO OUTPUT		
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKER	FINAL APPROVAL
		RIZZO	MP	JMA BP
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.	TF-234

TF-237

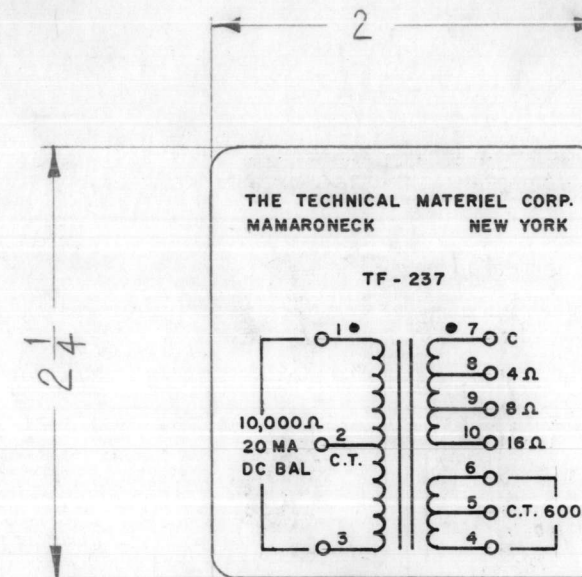
A



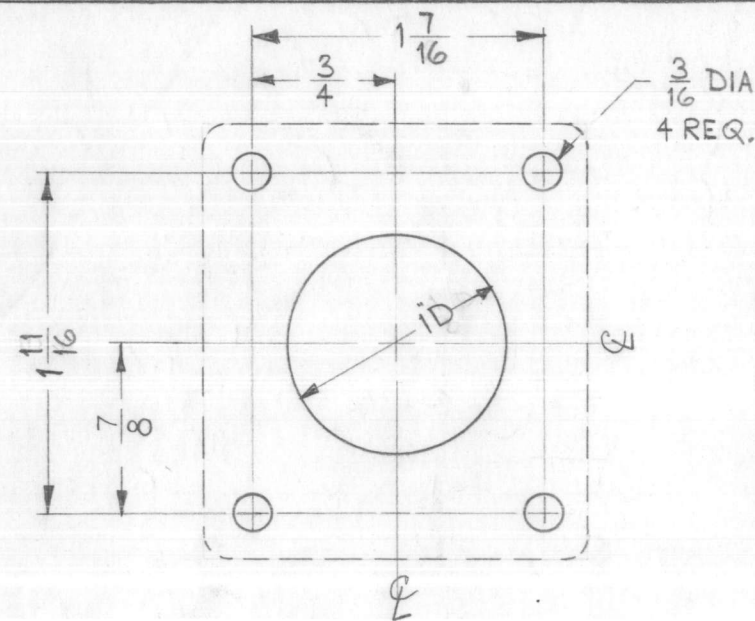
6-32 MTG STUD  
4 REQ.



TURRET TYPE TERMINALS



BLACK GOTHIC LETTERING  
AS SHOWN.



"DRILLING PLAN" DETAIL

ELECTRICAL SPECIFICATIONS ~

PRIMARY ~ 10,000 Ω C.T.  
DC CURRENT - 20 MA BALANCED  
MAX. DC UNBALANCE ~ 5 MA  
SECONDARY ~ 1 - 4 Ω, 8 Ω, 16 Ω TO COMMON  
2 - 600 Ω C.T.  
POWER ~ 5 W  
FREQ. RESPONSE ~ WITHIN 3DB, 50 TO 20,000 CPS.  
IMPEDANCE MATCH TO BE OBTAINED WHEN  
ONLY ONE SECONDARY WINDING IS USED.  
INSULATION RESISTANCE 1500 VOLTS.  
POLARITY OF TERMINALS #7 AND #1 MUST  
BE THE SAME.

MECHANICAL SPECIFICATIONS ~

CASE ~ HERMETICALLY SEALED, STEEL  
FINISH ~ S115-TMC SMOOTH GREY ENAMEL,  
EXCEPT TERMINAL END.  
SIZE O/A ~ 2 X 2 1/4 X 3 1/8 HIGH, EXCLUDING  
STUDS & TERMINALS.  
STAMPING ~ TERMINALS SHALL BE METAL STAMPED,  
OPPOSITE END SHALL BE STAMPED  
AS SHOWN.

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 REQUIRED.

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG/APP.
A	Polarity Of Terminals #3 & #7 Clarified	12-29-61	6080	E.E.		

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES ON  
FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/2°

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

REQ. PER UNIT	MODEL	SECTION	ASS'Y. NO.	DATE
2	HFA-1			10-3-61
2	SBS-1			10-3-61

USED ON

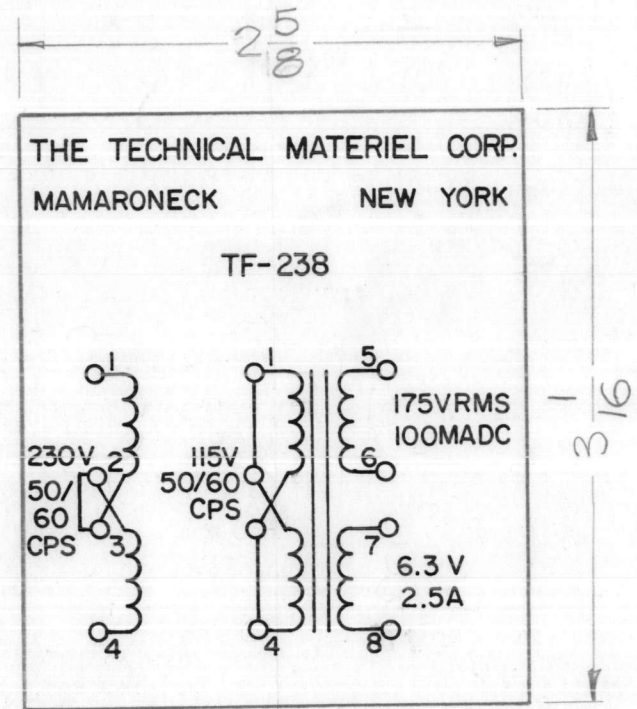
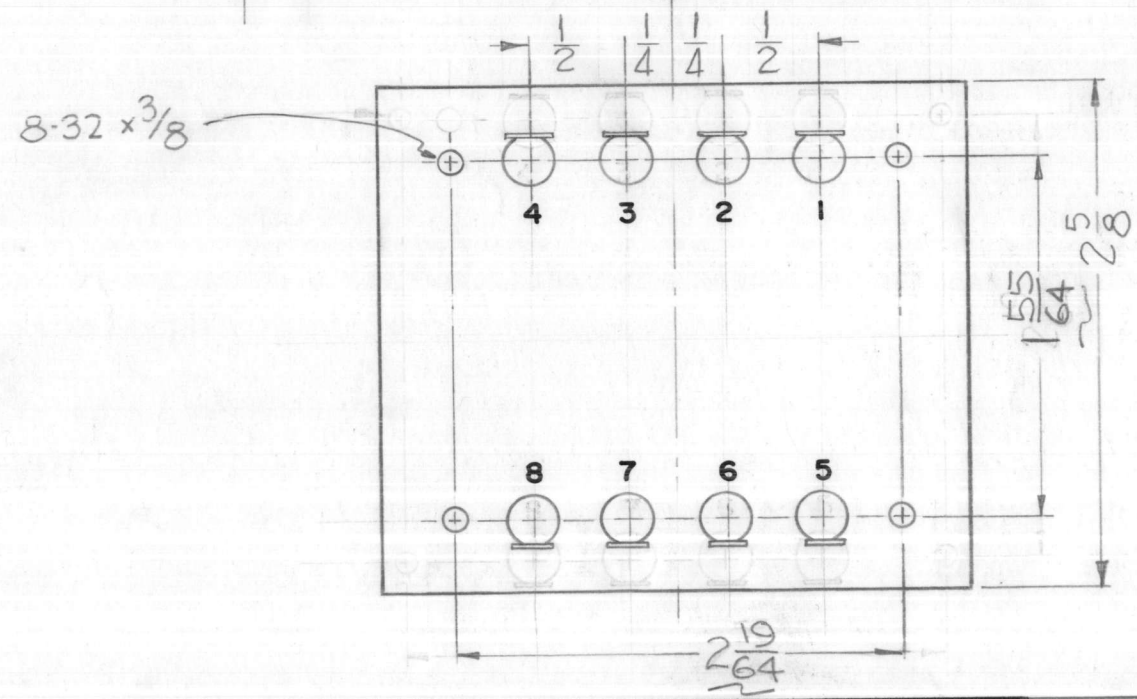
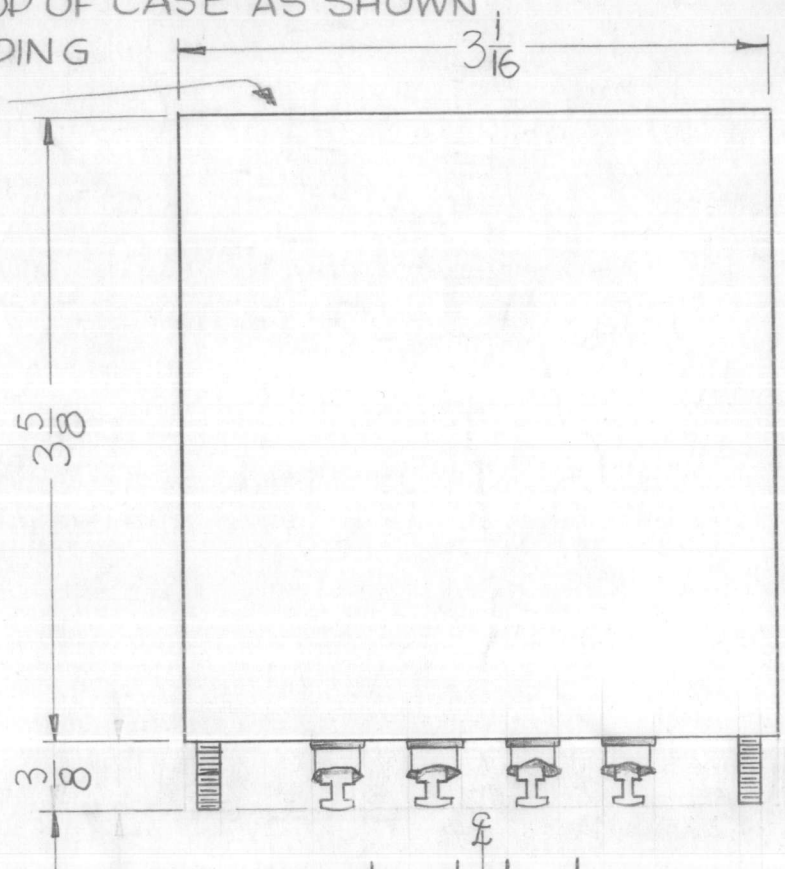
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		STOCK SIZE	
		STEEL	TRANSFORMER, AUDIO POWER
		MATERIAL	
		TYPE & TEMPER	
		HEAT TREAT. SPEC.	
		DRAWN	CHECKER
		FINISH & SPEC. NO.	FINAL APPROVAL
		ELEC. DES. APP.	MECH. DES. APP.

TF-237



TF-238

STAMP TOP OF CASE AS SHOWN  
IN STAMPING  
DETAIL.



STAMPING DETAIL

ALL LETTERING BLACK GOTHIC

PRIMARY: 115/230 V  
50/60 CPS  
SECONDARY: (a) 175 V RMS @ 100 MA DC  
(Into full Bridge rectifier. Capacitor  
input to filter)  
(b) 6.3 V AC @ 2.5A  
INSULATION: 1500V to all windings.

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.

NOTICE TO PURCHASERS RECEIVING THIS DRAWING  
THE TECHNICAL MATERIEL CORPORATION claims  
proprietary right in the material disclosed hereon.  
This drawing is issued in confidence for engineering  
information only and may not be reproduced or used  
to manufacture anything shown hereon without per-  
mission from THE TECHNICAL MATERIEL CORPORA-  
TION to the user. This drawing is loaned for mutual  
assistance and is subject to recall at any time.  
Property of:  
THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK, NEW YORK

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
-----	-------------	------	---------	--------	---------	-----------

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES ON  
FRACTIONS  $\pm 1/64$  DECIMALS  $\pm .005$  ANGLES  $\pm 1/2^\circ$

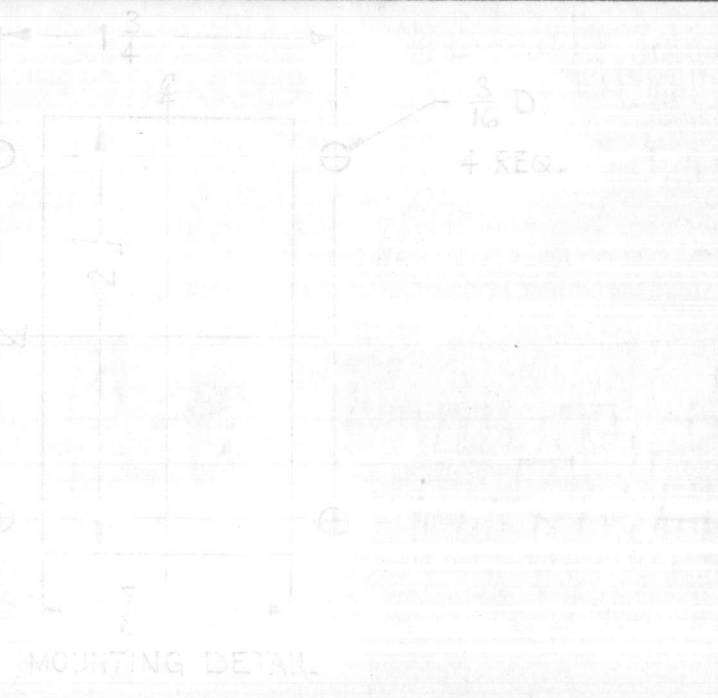
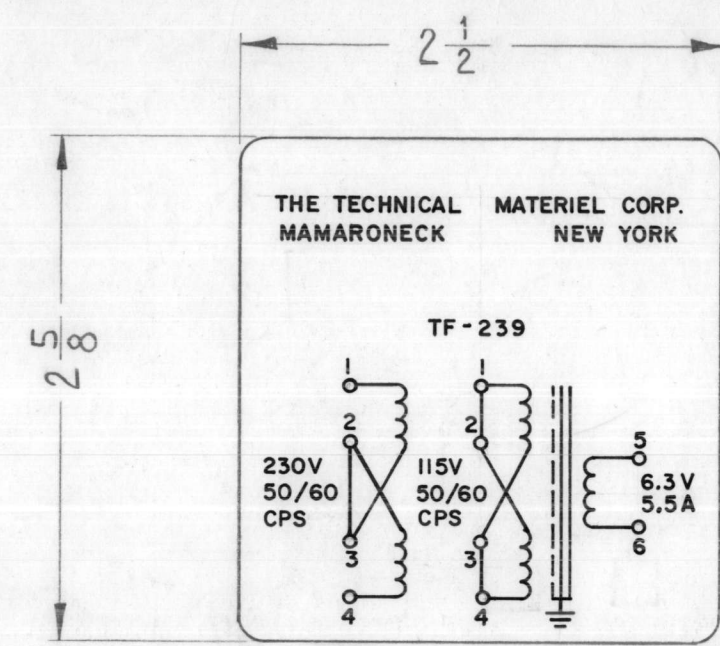
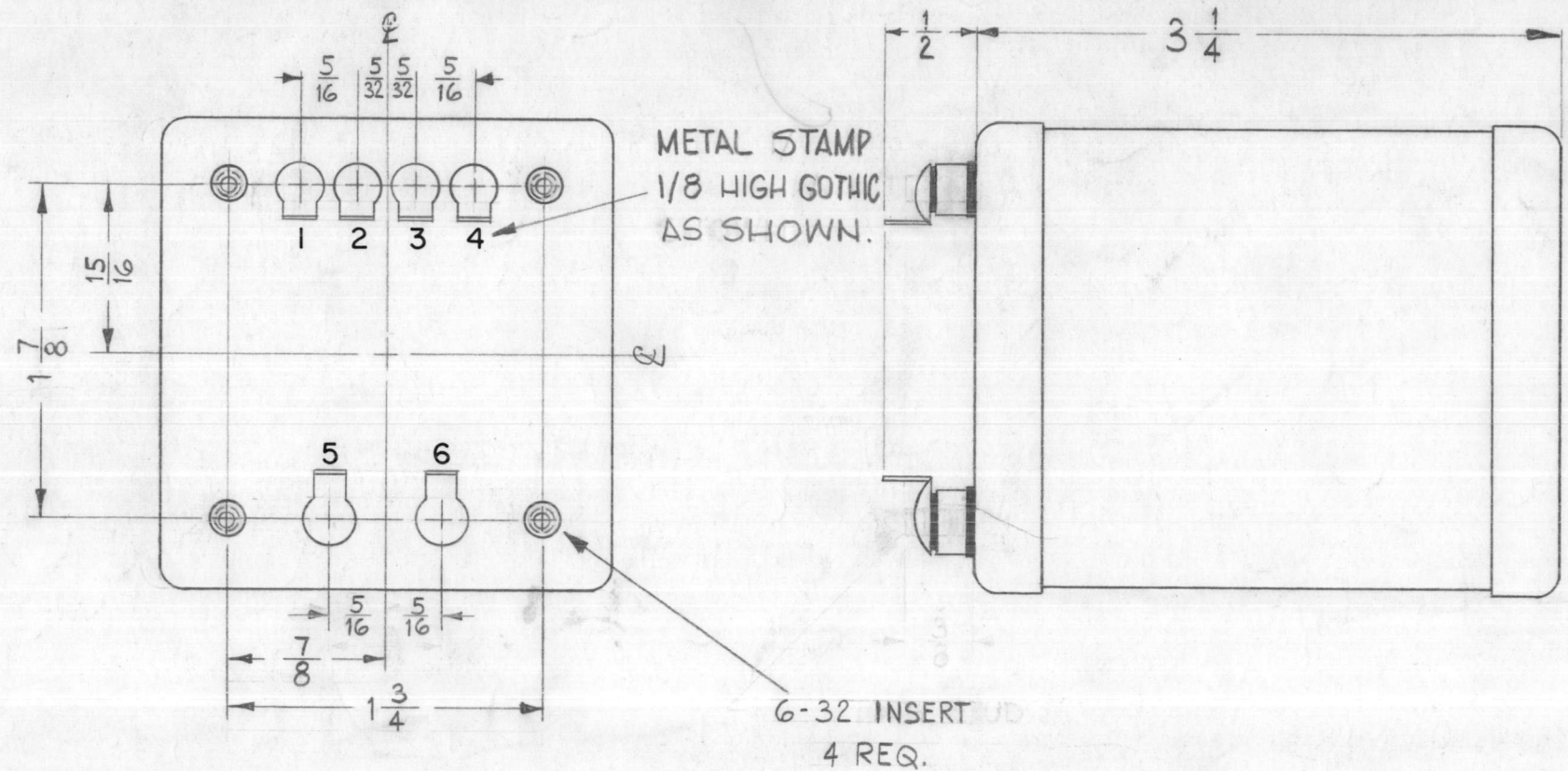
SCALE:  
MAXIMUM ALLOWABLE TOLERANCES HAVE  
BEEN DETERMINED AND ANY DEVIATIONS  
WILL BE CAUSE FOR REJECTION.  
REMOVE ALL BURRS AND SHARP EDGES

1	TRX			9-8-61
REQ. PER UNIT	MODEL	SECTION	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 & STEP DOWN	
	MATERIAL		
	TYPE & TEMPER	HEAT TREAT. SPEC.	
	FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.

DRAWN: *DSJ* CHECKER: *AB* FINAL APPROVAL: *[Signature]*  
 TF-238

TF-239 A



ELECTRICAL SPECIFICATIONS~

PRIMARY~ TWO WINDINGS, NUMBERED AS SHOWN ON SCHEMATIC, TO BE CONNECTED IN PARALLEL FOR 115V, 50/60 CPS. SINGLE PHASE INPUT & SERIES FOR 230V, 50/60 CPS SINGLE PHASE INPUT.

SECONDARY~ ONE WINDING, NUMBERED AS SHOWN ON SCHEMATIC. WINDING TO PROVIDE 6.3 VOLTS AT 5.5 AMPERES A.C. AN ELECTROSTATIC SHIELD SHALL BE INSERTED (FOIL).

MECHANICAL SPECIFICATIONS~

CASE~ HERMETICALLY SEALED STEEL.  
 FINISH~ S115 TMC SMOOTH GREY ENAMEL, EXCEPT TERMINAL END.  
 SIZE O/A~ 2 1/2 X 2 5/8 X 3 1/4 HIGH, NOT INCLUDING TERMINALS.  
 STAMPING~ TERMINALS SHALL BE METAL STAMPED 1/8 HIGH GOTHIC. OPPOSITE END SHALL BE STAMPED AS SHOWN.

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 REQUIRED.

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
A	MOUNTING DETAIL DELETED	7-9-63	2481	<i>AS</i>	<i>RP</i>	<i>[Signature]</i>

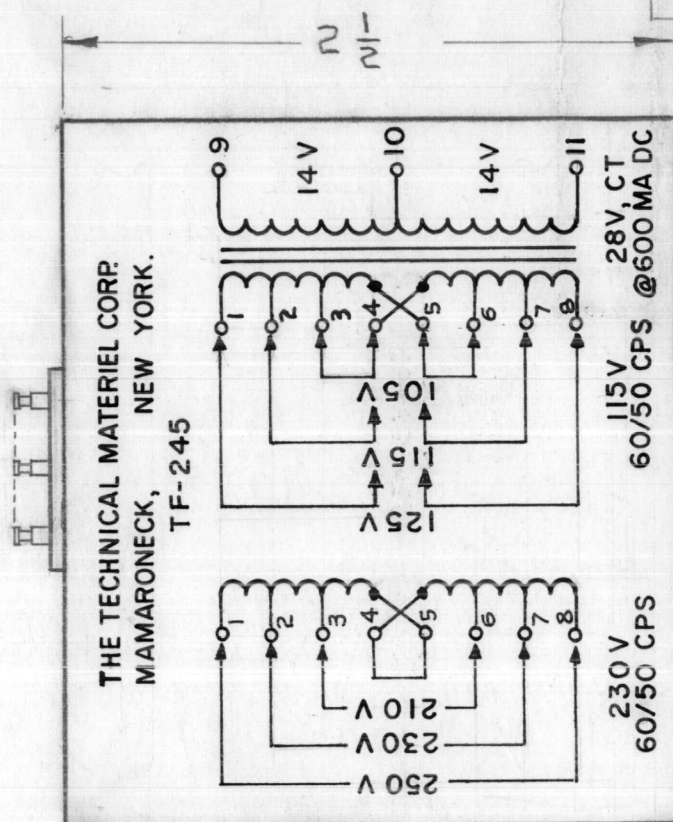
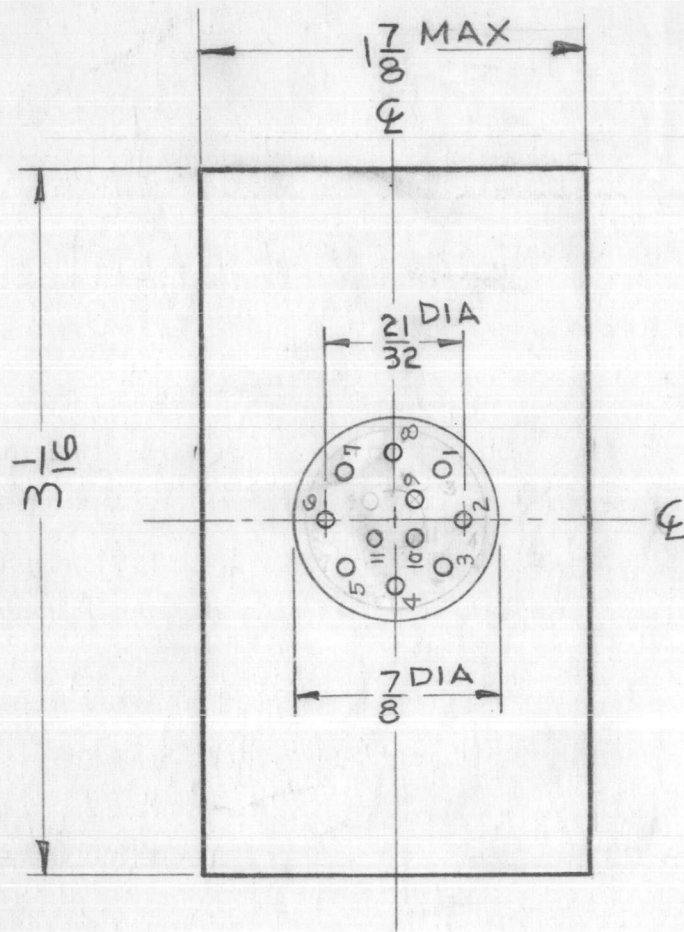
UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/2°

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	SECTION	ASS'Y. NO.	DATE
4	HFP-1		A-2382-3	2-21-62
2	SBS-1	PWR SUPPLY	A-2209-1	10-28-61

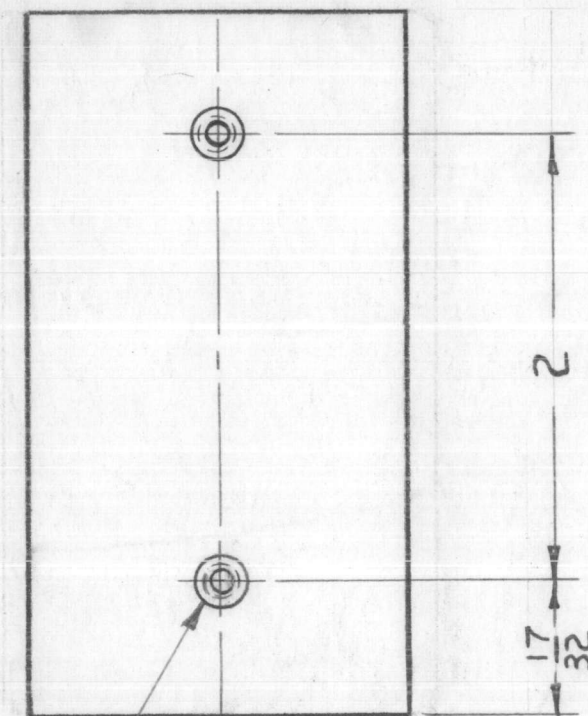
USED ON

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	STEEL	TRANSFORMER, FILAMENT	
		<i>M.A.F.</i> <i>RLZZO</i> <i>Ron Kohn</i>	
	TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN
	SEE NOTE	<i>RK</i> <i>RK</i>	FINAL APPROVAL
	FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.
		TF-239	A



BLACK GOTHIC LETTERING AS SHOWN

REVISIONS						
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
A	ADDED NOTE "5/16 MINIMUM THREAD DEPTH"	3-14-63	8538	RC	JMS	JMS
B	ON HEADER, TERMINAL NUMBERS RENUMBERED	5-14-63	8984	JMS	JMS	JMS



# 6-32 INSERT, 5/16 MINIMUM THREAD DEPTH 2 REQ'D

ELECTRICAL SPECIFICATIONS

PRIMARY: 115V/230V 50/60 CPS

SECONDARY: 28V CENTER TAP @ 600 MA DC (INTO FULL WAVE RECTIFIER 500 UF CAPACITOR INPUT FILTER)

INSULATION: 1500V TO ALL WINDINGS

TERMINALS: INSULATED

MECHANICAL SPECIFICATIONS

CASE: HERMETICALLY SEALED, STEEL

FINISH: S115 TMC SMOOTH GREY ENAMEL, EXCEPT TERMINAL END

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.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
<b>STRUMER LIST OF MATERIAL</b>				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
SEE MECH SPEC				
FINISH			TITLE	
SEE MECH SPEC			TRANSFORMER, POWER, STEP DOWN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES			DRAWN: JMS	DATE: 11-30-62
			CHECKED: JMS	DATE: 12-12-62
			ELECT. DES: JMS	DATE: 12-12-62
			MECH. DES: JMS	DATE: 12-12-62
			FINAL APPROVAL: BP	DATE:
			TF-245	B
			SHEET	REV. LTR.

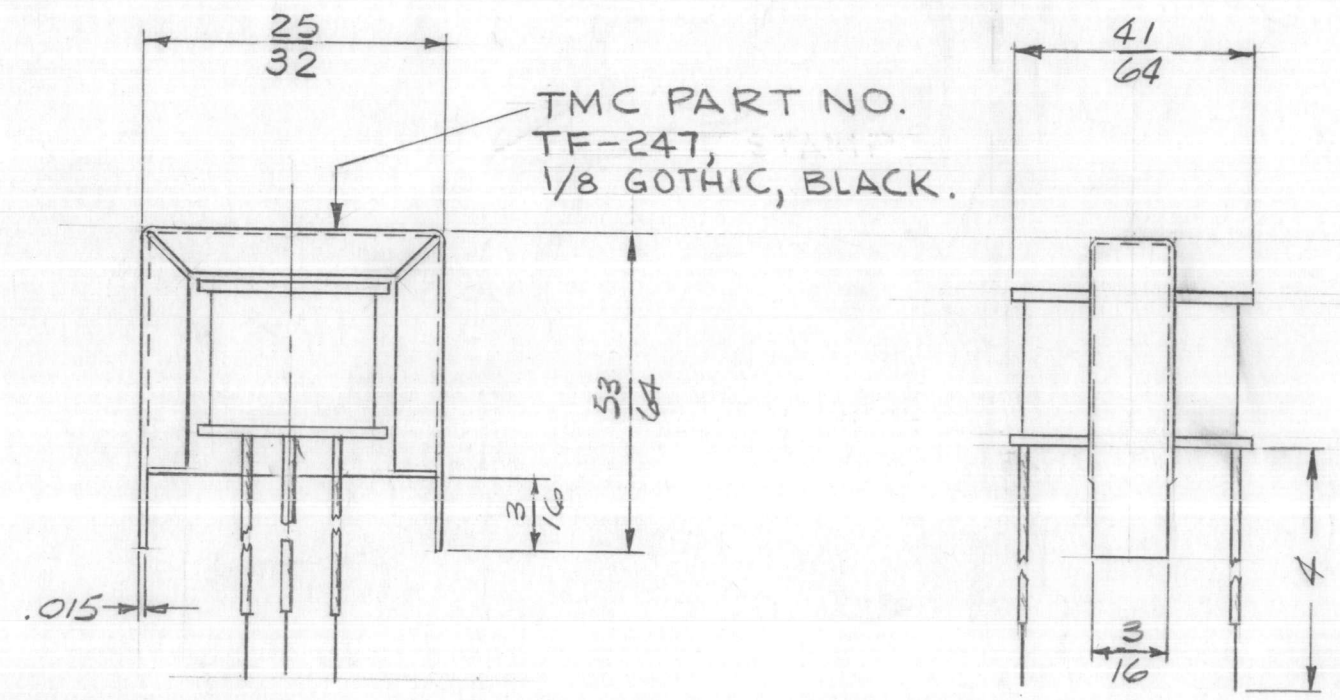
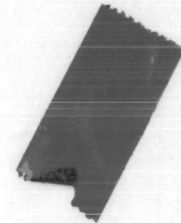
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
1	SPU-2	
SCALE	CODE	
NO SCALE		3401-30
THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.		

NOTES

TF-247

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
-----	-------------	------	------------	-------	------	------

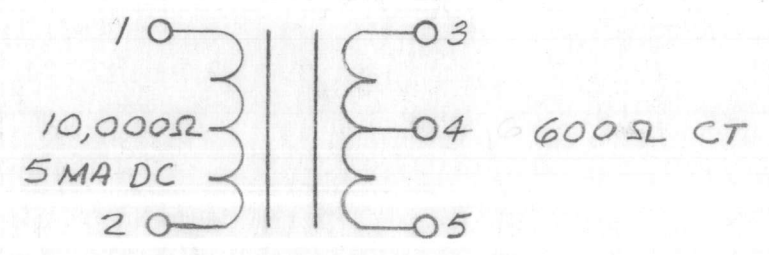


ELECTRICAL SPECIFICATIONS:

PRIMARY IMPEDANCE:  
 10,000 OHMS  
 SECONDARY IMPEDANCE:  
 600 OHMS CENTER TAP  
 FREQUENCY RESPONSE:  
 150 CPS TO 5 KC WITHIN 3 DB  
 WITH 5 MA DC IN PRIMARY  
 POWER LEVEL:  
 25 MW MIN.  
 DC RESISTANCE: PRI: 700Ω SEC: 60Ω

MECHANICAL SPECIFICATIONS:

20 AWG SOLID LEADS WITH REMOVABLE  
 SLEEVING FOR PRINTED CIRCUIT USE  
 ENCAPSULATE WITH STYPOL  
 STAMP WITH TMC PART NO. & STAMP  
 LEAD NOS. AS DESIGNATED.



NOTICE TO PERSONS RECEIVING THIS DRAWING

THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.

Property of:

THE TECHNICAL MATERIEL CORPORATION  
 MAMARONECK, NEW YORK

NOTES

1	SPU-2	
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE 2:1	CODE	S401-30(2718-26)

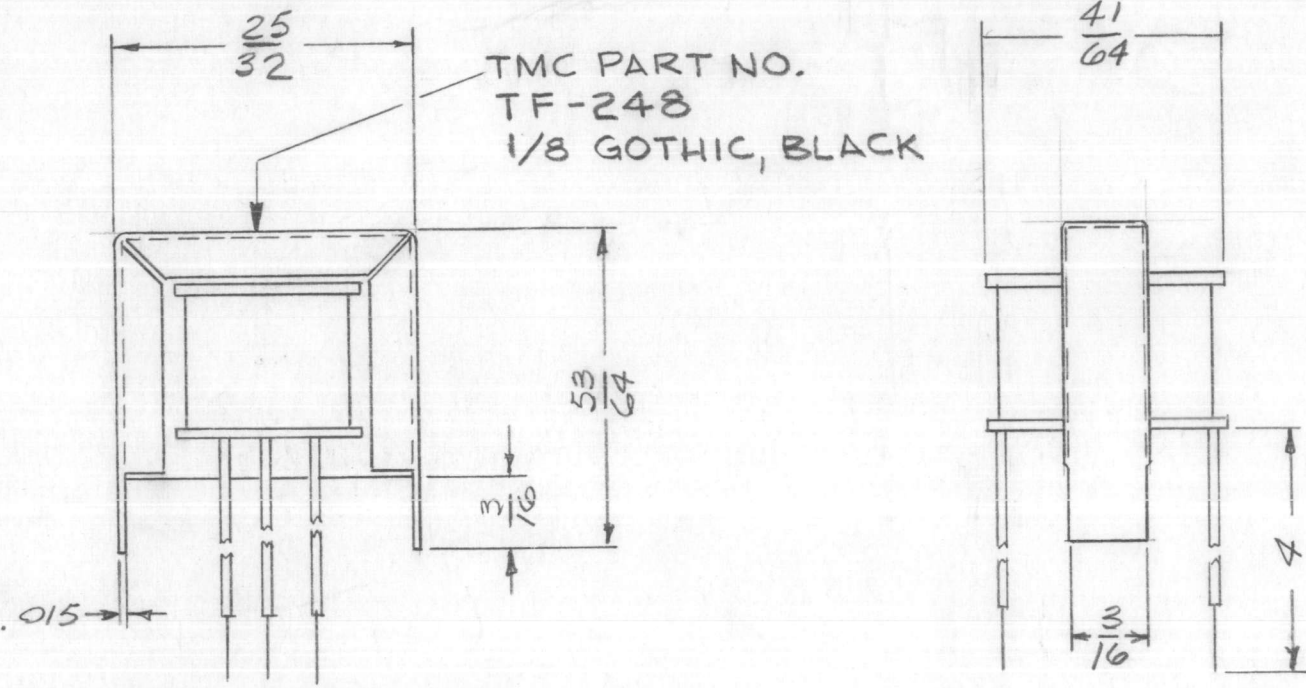
THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
<b>STRUMMER LIST OF MATERIAL</b>				
MATERIAL		<b>THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK</b>		
FINISH		TITLE TG TRANSFORMER, OUTPUT, AUDIO		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		DRAWN T. KAMIRERZ	DATE 9/21/62	FINAL APPROVAL JMA BP
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005		CHECKED JDe	DATE 10/16/62	DATE 11-27-62
TOLERANCES		ELECT. DES. JMA	DATE 11-27-62	TF-247
FRACTIONS ± 1/64 ANGLES ± 0° 30'		MECH. DES. JMA	DATE 11-27-62	SHEET
				REV. LTR.

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
-----	-------------	------	------------	-------	------	------

TF-248

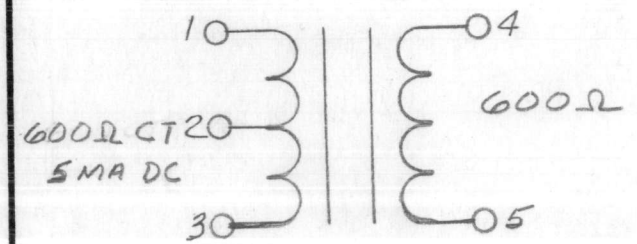


ELECTRICAL SPECIFICATIONS

PRIMARY IMPEDANCE:  
600 OHMS CENTER TAP  
SECONDARY IMPEDANCE:  
600 OHMS  
FREQUENCY RESPONSE:  
150 CPS TO 5 KC WITHIN 3 DB  
WITH 5 MA IN PRIMARY BALANCED  
MAX. UNBALANCE: 1 MA.  
POWER LEVEL:  
25 MW MIN.  
DC RESISTANCE: PRI: 38 Ω, SEC: 50 Ω

MECHANICAL SPECIFICATIONS

20 AWG SOLID LEADS WITH REMOVABLE SLEEVING FOR PRINTED CIRCUIT USE.  
ENCAPSULATE WITH STYPOL  
STAMP TMC PART NO. & STAMP LEAD NOS. AS DESIGNATED



NOTICE TO PERSONS RECEIVING THIS DRAWING

THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.

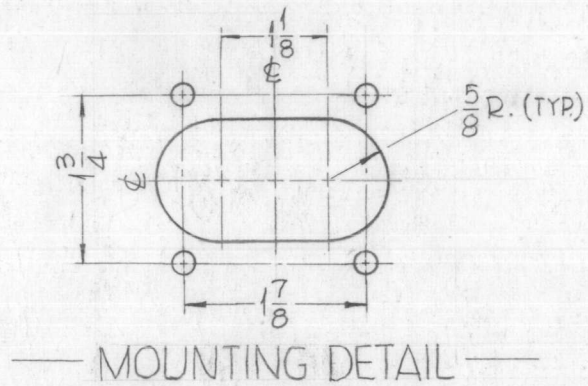
Property of:  
THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK, NEW YORK

NOTES

Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
1	SPU-2	
SCALE	CODE	
2:1		S401-30 (2718-25)
THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.		

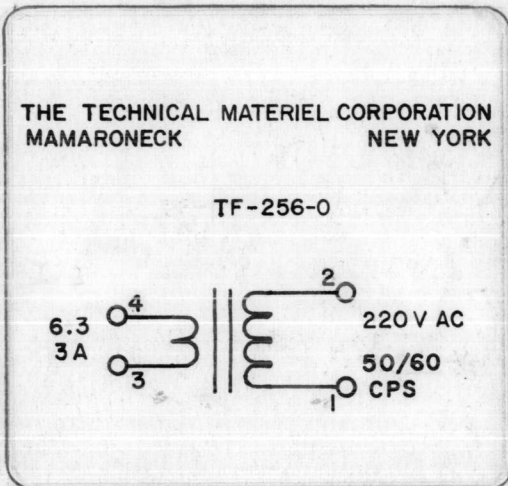
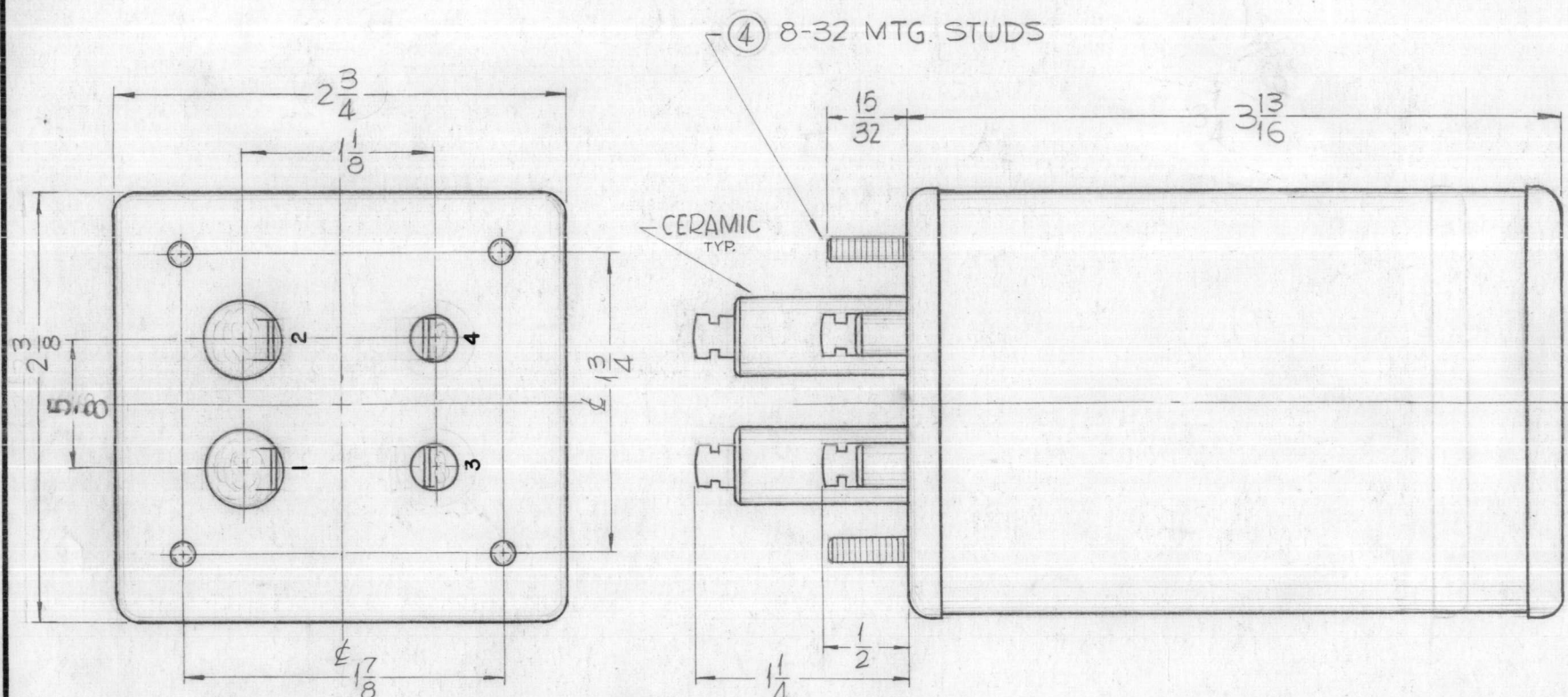
REF: BERKSHIRE TRANSFORMER # 2718-25

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
STRUMMER LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE T 3 TRANSFORMER, INTERSTAGE, AUDIO	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		DRAWN T. RAMIREZ	DATE 9/21/62	FINAL APPROVAL BP
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005		CHECKED JMA	DATE 10/16/62	DATE 11-27-62
TOLERANCES ± 1/64 ANGLES ± 0° 30'		ELECT. DES. JMA	DATE 11-27-62	DATE 11-27-62
		MECH. DES. JMA	DATE 11-27-62	DATE 11-27-62
				SHEET
				REV. LTR.



TF-256

REVISIONS					
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD APPD
0	ORIGINAL RELEASE FOR PRODUCTION	3-2-64		A.M.	



ELECTRICAL SPECIFICATIONS:  
 PRIMARY ~ 6.3V AT 3 AMPS (TERM. 3, 4)  
 INSULATED ~ FOR 1,000 VAC  
 SECONDARY ~ 220V AC, 50/60 CPS  
 SECONDARY ~ SINGLE PHASE  
 INSULATED ~ FOR 10,000 VAC (TERM 1, 2)

MECHANICAL SPECIFICATIONS  
 CASE ~ HERMETICALLY SEALED IN  
 RECTANGULAR METAL CAN.  
 FINISH ~ S115-TMC SMOOTH GREY ENAMEL.  
 SIZE ~ 3 13/16 x 2 3/4 x 2 3/8 EXCLUDING TERMINALS.

WINDING MUST BE WOUND IN SAME DIRECTION AT ALL TIMES, TERMS 3 AND 1 MUST BE START OF WINDINGS TO ASSURE PROPER PHASING

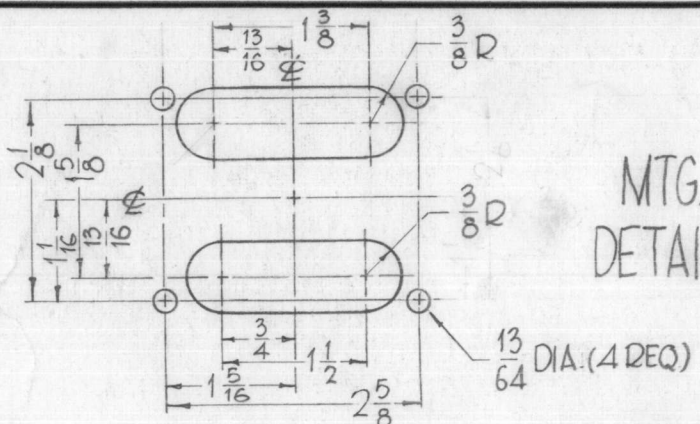
MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQ'D

NOTES

Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
1	GPT-200K	AX-398
1	GPT-40K	AP-118
SCALE 1:1	CODE A	

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
MATERIAL SEE MECHANICAL SPECS.			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH SEE MECHANICAL SPECS.			TITLE TRANSFORMER, TRIGGER	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		DRAWN <i>Granfilippo</i>	DATE 1-29-63	FINAL APPROVAL <i>RAC</i>
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005		CHECKED <i>ACB</i>	DATE 2/10/64	
FRACTIONS ± 1/64 ANGLES ± 0° 30'		ELECT. DES. <i>ACB</i>	DATE 2/10/64	TF-256
TOLERANCES		MECH. DES. <i>Q</i>	DATE 2/10/64	⊕
			SHEET	REV. LTR.

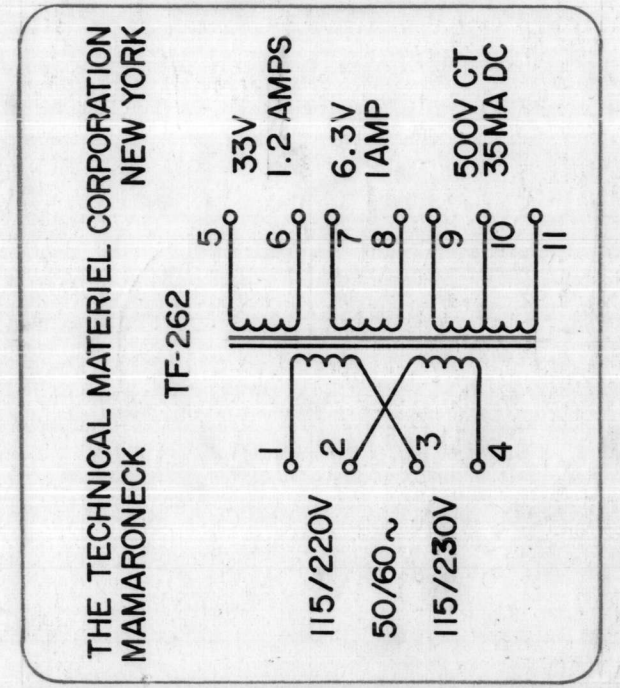
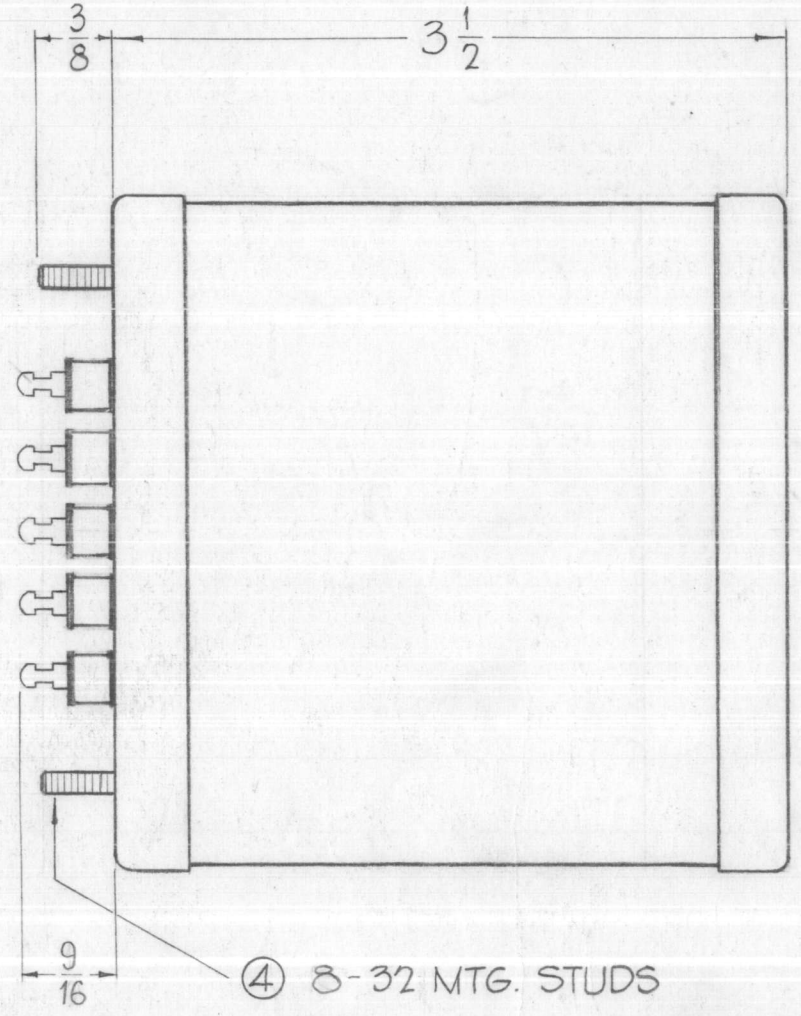
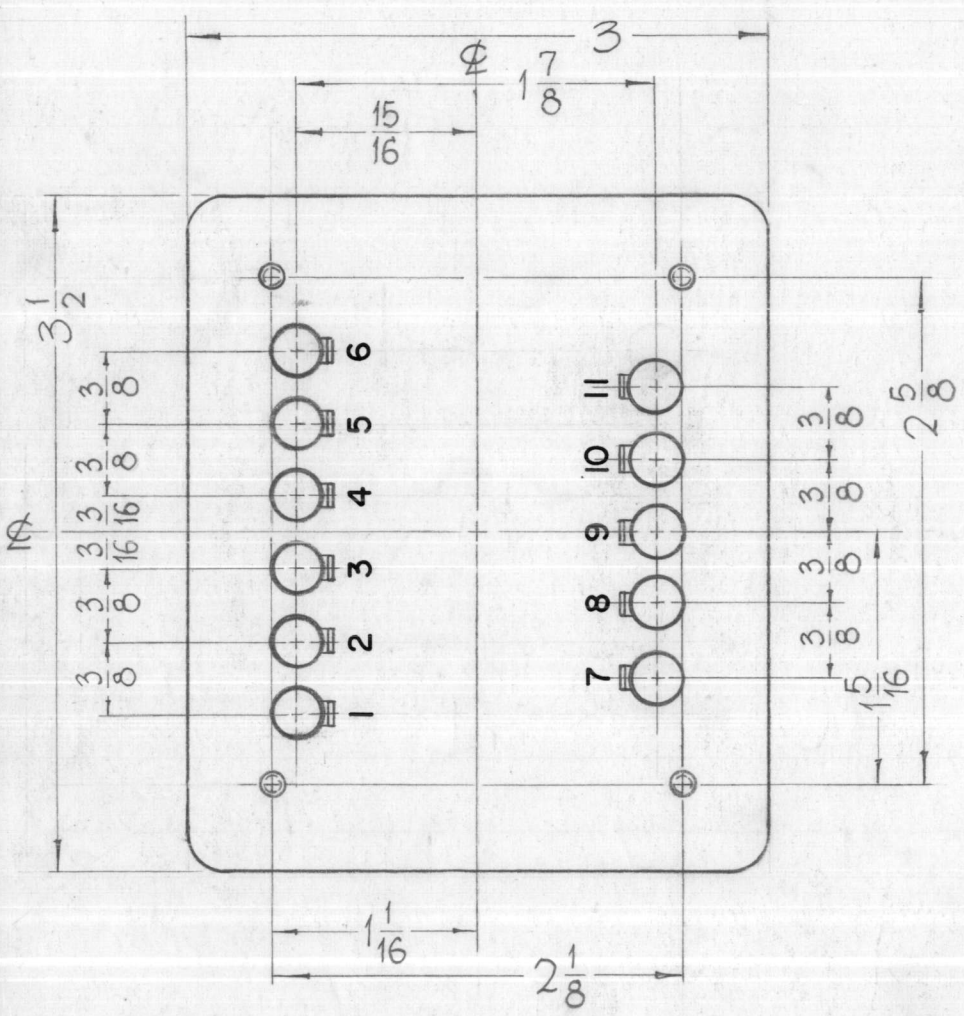


MTG.  
DETAIL

TRANSFORMED TO BE MANUFACTURED  
IN ACCORDANCE WITH MIL SPEC. T-27-A  
EXCEPT THAT MIL T-27-A SHALL NOT  
APPEAR ON THE TRANSFORMER  
AND QUALIFICATION TESTING IS  
NOT REQUIRED.

TF-262

REVISIONS						
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
0	RELEASED FOR PRODUCTION	2/28/64	-	AM	(Signature)	



MECHANICAL SPECIFICATIONS

CASE-HERMETICALLY SEALED IN RECTANGULAR STEEL CASE, MIL TYPE YY.  
FINISH- S115, TMC SMOOTH GRAY ENAMEL, EXCEPT STUD END.  
SIZE O/A- 3 X 3- 1/2 X 3- 1/2 EXCLUSIVE OF TERMINALS.  
STAMPING- TERMINALS 1 THRU 11 METAL STAMPED. SCHEMATIC, LETTERING, BLK, BOT. OF XMFR

NOTES

ELECTRICAL SPECIFICATIONS

PRIMARY- 115/220VAC, 50/60~  
SECONDARY- 500V, 35MA DC, 33V, 1.2A 6.3V, 1A.  
INSULATION- 1000V

1	GPT-200K	AX-397
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
4	A	S401-30

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
--------	------	-------------	-------------	--------

F. BUDETTI

LIST OF MATERIAL

MATERIAL	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
FINISH	TITLE TRANSFORMER, (DC AMPL.)			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	DRAWN	DATE	FINAL APPROVAL	DATE
	John C. Biele	4-9-63	(Signature) 2/28/64	2/28/64
	CHECKED	DATE		
	(Signature)	2-28-64		
TOLERANCES .X ± .05 .XX ± .01 .XXX ± .005	ELECT. DES.	DATE	TF-262	0
	MECH. DES.	DATE		
	(Signature)	1/11/64		
			SHEET	REV. LTR.

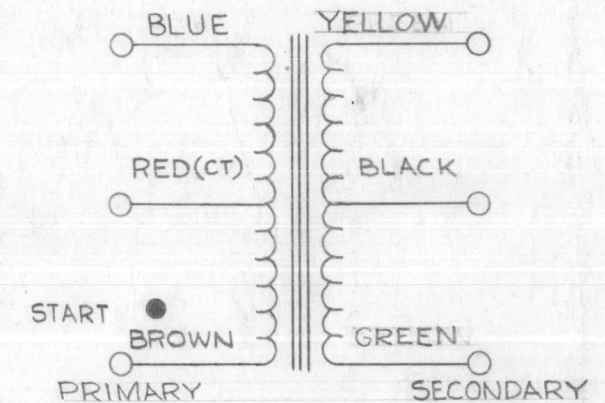
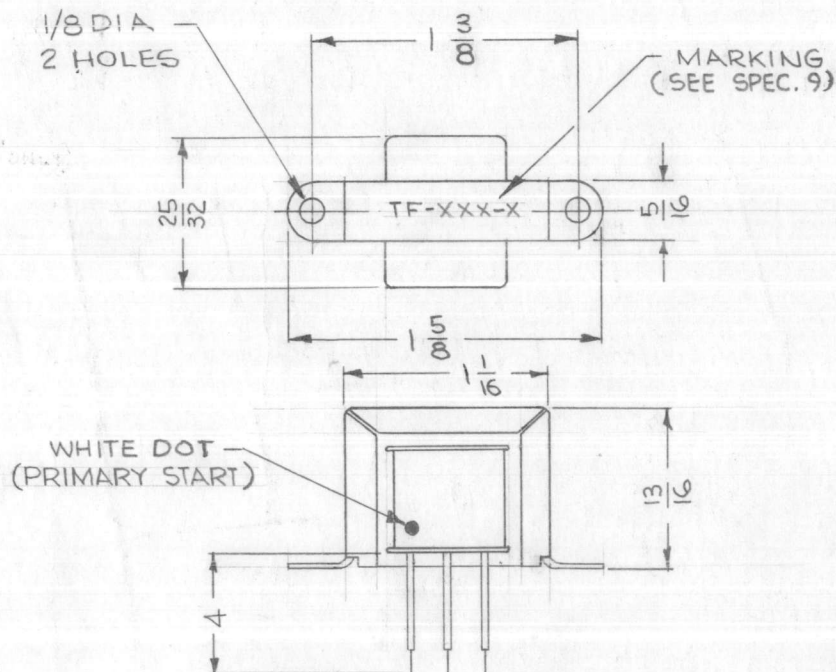
TF-267

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

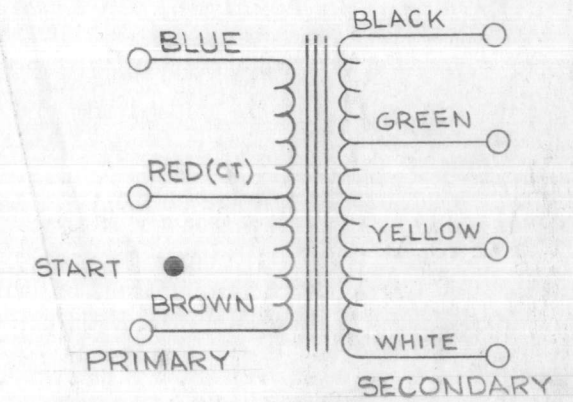
TMC PART NUMBER	MFR. REF.	MFR. PART NUMBER	APPLICATION	TURNS RATIO PRI.-SEC.	IMPEDANCE (OHMS)		DC RES. OHMS ±20%		OPER. FREQ. RANGE	FREQUENCY RESPONSE AT FREQ.	RATED OUTPUT (MILLI-WATTS)	SCHEMATIC STYLE SEE PICTORIALS
					PRI.	SEC.	PRI.	SEC.				
TF-267-1	A	FF4	OUTPUT	5.00:1	400 CT	4,8,16	34	1.5	200 to 20,000 cps	±3db at 250-3500 cps	1000	B
TF-267-2	A	155A3	INTERSTAGE	1.76:1	3,000 CT	1000 CT	260	105	200 to 15,000 cps	±3db at 250-3500 cps	1000	A
TF-267-3	A	155A4	OUTPUT	2.50:1	4,000 CT	600 CT	370	60	200 to 15,000 cps	±3db at 250-3500 cps	1000	A
TF-267-4	A	155A5	OUTPUT	9.10:1	25,000 CT	1200 CT	1550	88	200 to 15,000 cps	±3db at 250-3500 cps	1000	A
TF-267-5	B	146H	OUTPUT	12.5:1	500CT	3.2	26	0.3	150 TO 45,000 CPS	+0-2db @ 1000CPS REF ±2db 150-45,000 CPS	700	C
TF 267-6	A	TA39	OUTPUT	2.5:1	100CT	4-8-16	10.9	1.45	250 TO 10,000 CPS	±2db 250-10K CPS	300	B
TF 267-7	A	155A36	OUTPUT	2.5:1	6-10K CT	600 CT						

**SPECIFICATIONS:**

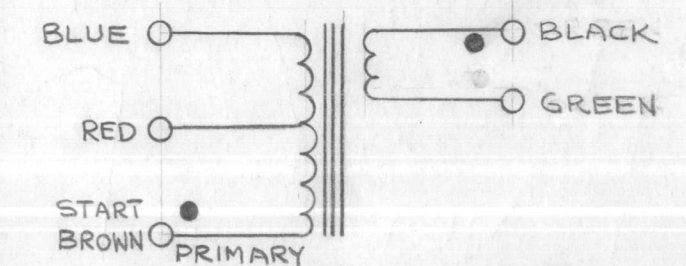
1. FREQUENCY RANGE: SEE CHART
2. db VARIATION OVER RANGE: ±3db
3. DC CURRENT RATING: NOT RATED
4. INTERNAL SHIELDING: NONE
5. LEADS: SIZE 26 AWG SOLID TINNED (IT.#5 SIZE #20AWG "TF-267-5" ONLY) COPPER, 4 INCHES LONG, WITH REMOVEABLE COLOR CODED SLEEVING. (IT.#5 SIZE #20AWG "TF-267-5" ONLY)
6. CORE: SILICON STEEL
7. ENCAPSULATION: NONE
8. CONSTRUCTION: OPEN-FRAME TYPE
9. MARKING: TMC PART NUMBER (PER CHART) TO BE STAMPED ON BRACKET AS SHOWN.
10. BRACKET: MATERIAL - STEEL  
FINISH - CADMIUM PLATE



SCHEMATIC ~ STYLE A



SCHEMATIC ~ STYLE B



SCHEMATIC ~ STYLE C

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
D	TF 267-7 ADD.	11-24-62		GDL		
C	ADD TF 267-6	12-27-62	21114	9E	Q	Q
B	SPECS. #5 REVISED, S401 #5 ADDED SCHEMATIC-STYLE C ADD, TF-267-5 ADD.	8.19.64	12166	hB	@	TKL
A	YELLOW LEAD WAS GREEN GREEN LEAD WAS YELLOW	6/9/64	11495	A.M.	@	TKL

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES  
TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/2°

SCALE: NOT TO SCALE  
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.  
REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT	MODEL	SECTION	ASS'Y. NO.	DATE
1(-4)	TTR-10			
1(-3)	TTR-10			
1(-2)	TTR-10			
1(-1)	TTR-10			7-18-63

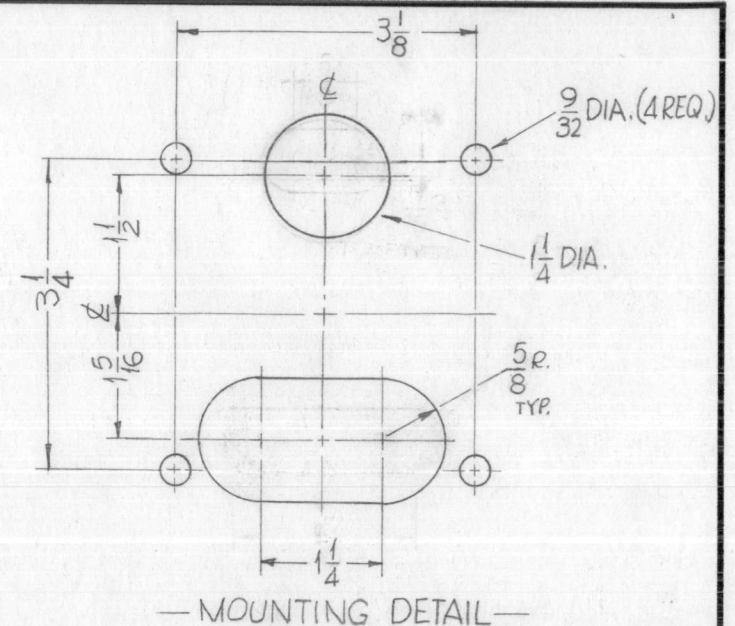
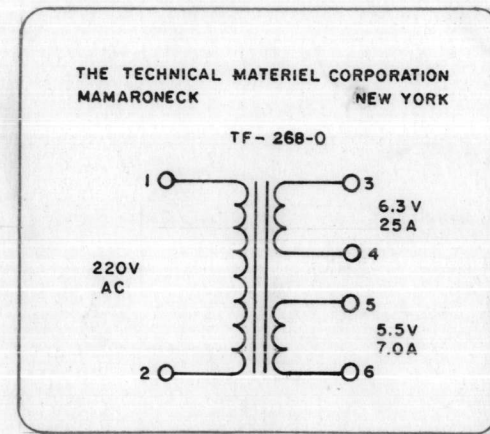
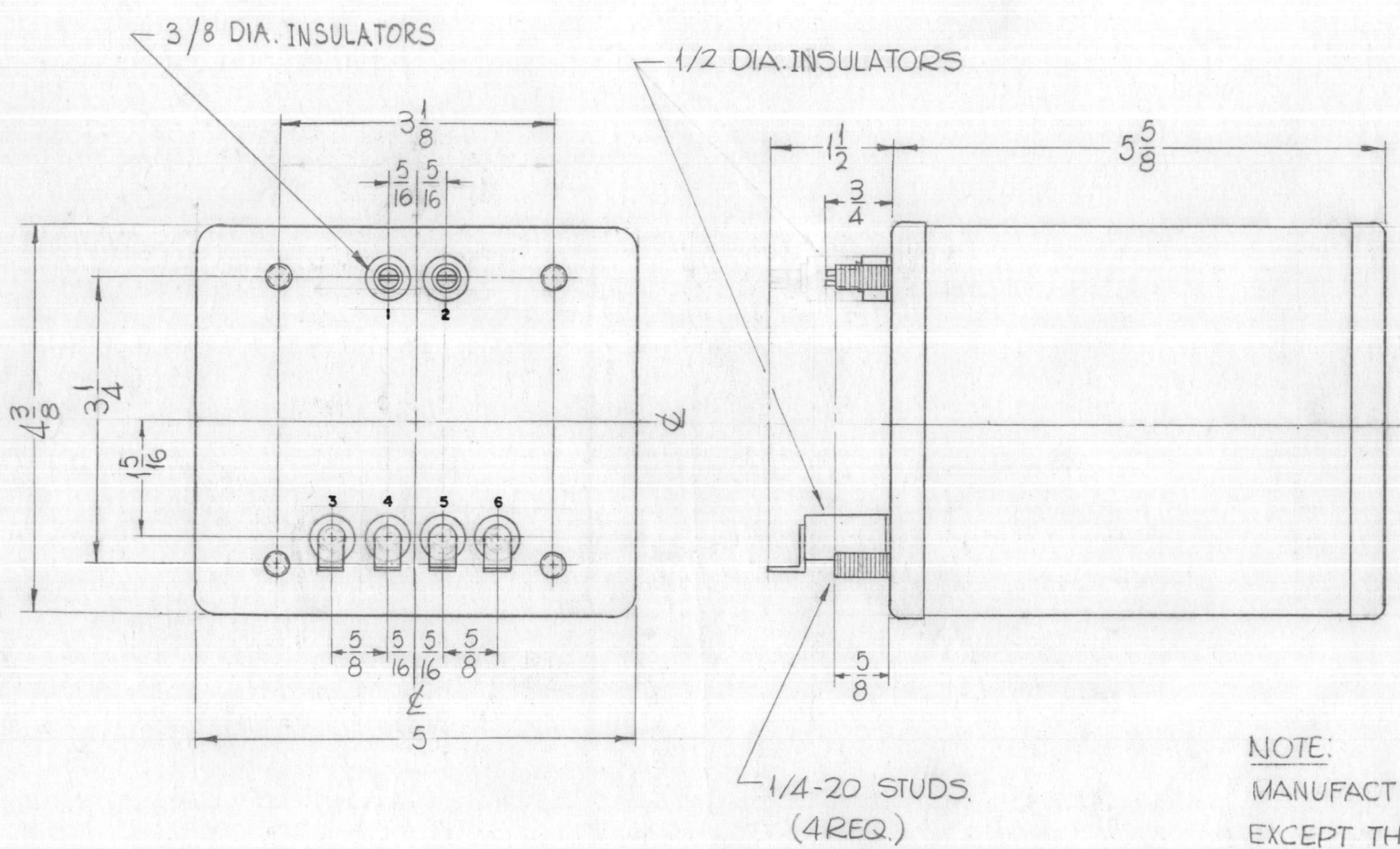
CODE	S-401-230 (1-4)	S401-158 (-5)	
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
	KOHN	E 3037.48 THRU S1	
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
TRANSFORMER, AUDIO FREQ			
MATERIAL			
TYPE & TEMPER		HEAT TREAT. SPEC.	
DRAWN		CHECKED	FINAL APPROVAL
Ron KOHN		L.S. 7/19/63	BP
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
			TF-267
			D



STANDARD DRAWING

TF-268  
A

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.



ELECTRICAL SPECIFICATIONS:  
PRIMARY- 220 V AC  
SECONDARY- 6.3V AT 25AMPS.  
                  5.5V AT 7AMPS

BREAKDOWN TEST:  
TEST VOLTAGE- 10000  
TERM. 6 TO CASE  
TERM. 4 TO CASE  
TERM. 6 TO TERM. 1  
TERM. 4 TO TERM. 1.

MECHANICAL SPECIFICATIONS:  
CASE-RECTANGULAR, STEEL, MIL. TYPE YY,  
HERMETICALLY SEALED.  
FINISH-TMC SMOOTH GREY ENAMEL (S-115)  
EXCEPT TERMINAL END.  
SPAMPING-TERMINALS SHALL BE METAL  
STAMPED. OPOSITE END SHALL  
BE STAMPED IN BLACK GOTHIC.  
TERMINALS -STYLE OPTIONAL

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. REQD.

A	"TERMINALS" ADDED TO MECH. SPEC.	7-19-66	16589	RME	<i>JCS</i>	<i>MM</i>
O	ORIGINAL RELEASE FOR PRODUCTION	3-3-64		AM		
X1	INSULATOR GOT SHORTENED	2-21-64				

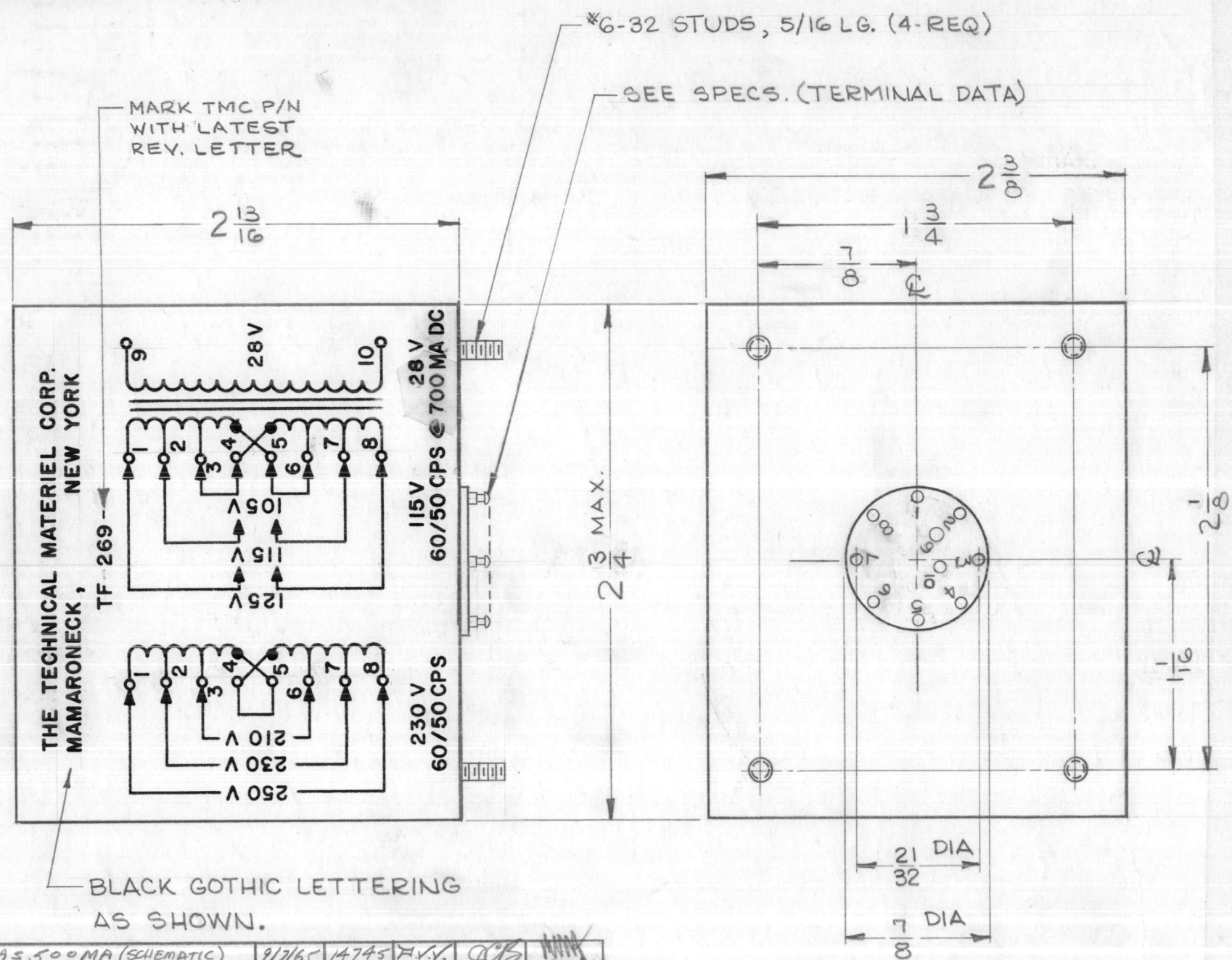
SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
UNLESS OTHERWISE SPECIFIED:		SCALE: 1:2				
DIMENSIONS ARE IN INCHES		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.				
TOLERANCES ON FRACTIONS ± 1/64		DECIMALS ± .005		ANGLES ± 1/2°		
		REMOVE ALL BURRS AND SHARP EDGES				

1	GPT-200K		AX-398	6-28-63
REQ. PER UNIT	MODEL	SECTION	ASS'Y. NO.	DATE
USED ON				

REQ.	ITEM	PART NO.	F. BUDETTI	DESCRIPTION	SYMBOL
				THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
				TRANSFORMER, FILAMENT	
			<i>SRG</i>	<i>JCS</i>	<i>RDE</i>
			<i>QB</i>	<i>aa</i>	
				TF-268	A

TF-269 E

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.



THE TECHNICAL MATERIEL CORP.  
MAMARONECK, NEW YORK  
TF-269

MARK TMC P/N WITH LATEST REV. LETTER

\*6-32 STUDS, 5/16 LG. (4-REQ)

SEE SPECS. (TERMINAL DATA)

BLACK GOTHIC LETTERING AS SHOWN.

SPECIFICATIONS

- 1- TRANSFORMER, POWER, ISOLATION & STEP DOWN.
- 2- CASE DATA:
  - A. HERMETICALLY SEALED
  - B. FULLY INCLOSED
  - C. CASE MATERIAL- STEEL
  - D. FINISH- S115, TMC SMOOTH GRAY ENAMEL, EXCEPT TERMINAL END.
- 3- PRIMARY WINDING INPUT DATA:
  - A. VOLTAGE- 105, 115, 125, or 210, 230, 250V.
  - B. FREQUENCY- 50 TO 60 CPS
  - C. PHASE- 1
- 4- SECONDARY WINDING DATA:
  - A. VOLTAGE- 28
  - B. CURRENT RATING- 700 MA.
- 5- TERMINAL DATA:
  - A. QUANTITY- 10
  - B. TYPE- SOLDER STUD

E	700 MA WAS 500 MA (SCHEMATIC)	9/7/65	14745	F.V.V.	908	
D	CURRENT RATING WAS 500 MA. (4B)	8-3-65	14500	F.V.V.	908	
C	"LATEST REV. LETTER" NOTE ADDED TO 5401-30 (BTC5317C) ONLY" ADDED	1.6.65	13231	WB		
B	DIM 2 3/4 MAX. WAS 2 11/16 MAX.	10.12.64	12616	WB		
A	HEADER ROTATED 90° CLOCKWISE	9.17.64	12381	WB	@	
O	ORIGINAL RELEASE FOR PRODUCTION	5/11/64	0	A.M.	@	
X3	COMPLETELY REVISED BASE DIM.'S; 2 13/16 HT DIM. WAS 2 3/16; REORIENTATED TERM. HEADER	4/13/64	3	JL		
X2	SPECS COMPLETELY UPDATED	3/23-64	2			
X1	REVISED TERMINAL ORIENTATION	10-25-63	1	G. Suman	R.W.	

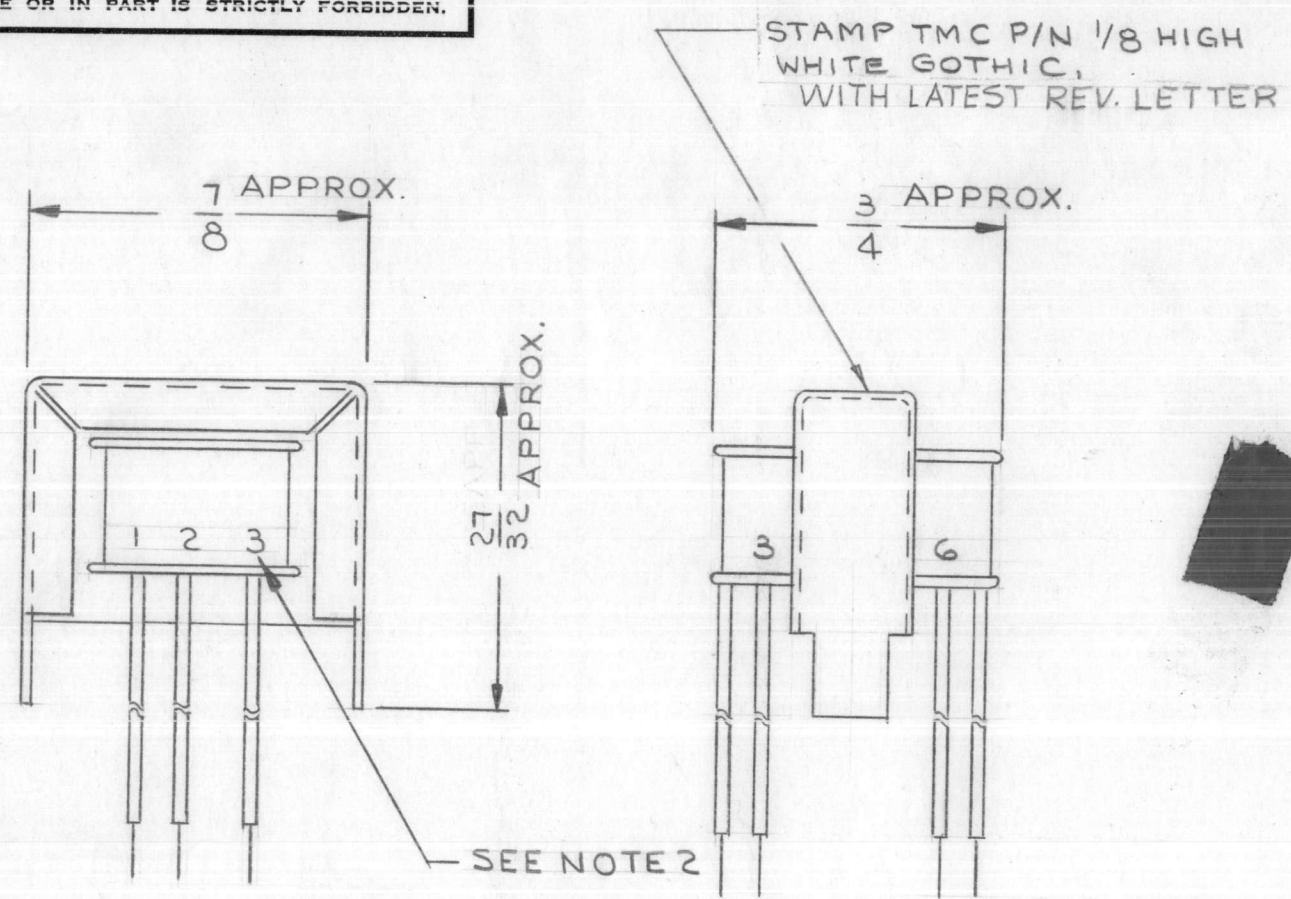
UNLESS OTHERWISE SPECIFIED:  
 DIMENSIONS ARE IN INCHES  
 TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/2°  
 SCALE: 5401-30 (BTC5317C) ONLY  
 MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.  
 REMOVE ALL BURRS AND SHARP EDGES

1	CMRA-1			8-5-64
1	LFS-1			6-26-63
1	VLR-1			6-26-63
REQ. PER UNIT	MODEL	SECTION	ASS'Y. NO.	DATE

REQ.	ITEM	PART NO.	M. GELLMAN	DESCRIPTION	SYMBOL
				THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		STOCK SIZE		TRANSFORMER, POWER, ISOLATION AND STEP DOWN	
		SEE SPECS			
		MATERIAL			
			G. Suman	@	R.W.
		TYPE & TEMPER		DRAWN	CHECKED
		HEAT TREAT. SPEC.			FINAL APPROVAL
		SEE SPECS			
		FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
				TF 269	E

TF-270 B

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.



**SPECIFICATIONS:**

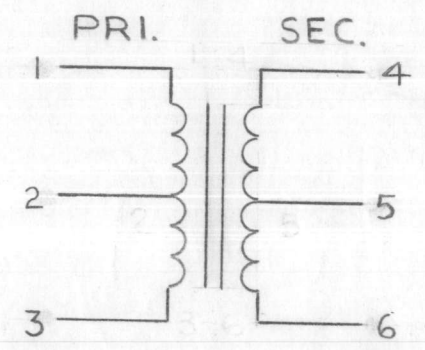
TYPE = INTERSTAGE  
IMPEDANCE  
PRIMARY =  $10K \Omega$  CT  
SECONDARY =  $1.5K \Omega$  CT  
DIRECT CURRENT RATING = PRIMARY: .5MA  
POWER RATING = 100 MW  
TURNS RATIO, PRI. TO SEC. = NOT RATED  
FREQUENCY DATA  
FREQUENCY RANGE = 50-10,000 CPS  
DB VARIATION OVER FREQ. RANGE = 3 DB

**CASE DATA**  
MATERIAL = ENCAPSULATED    COLOR = BLACK

**TERMINAL DATA**  
WIRE LEADS

**NOTES:-**

- 1- ALL DIMENSIONS ARE AFTER ENCAPSULATION.
- 2- ALL TERMINAL NO.'S TO BE STAMPED IN WHT.



B	DIR. CURRENT RATING WAS "NOT RATED"	1.5.64	13186	WJB	<i>[Signature]</i>	<i>[Signature]</i>
A	"WHITE" ADD. TO STAMP, CASE COLOR ADDED	9.17.64	12381	WJB	<i>[Signature]</i>	<i>[Signature]</i>
O	ORIGINAL RELEASE FOR PRODUCTION	5/12/64	0	A.M.	<i>[Signature]</i>	<i>[Signature]</i>
SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
UNLESS OTHERWISE SPECIFIED:		SCALE: NONE S-401-30				
DIMENSIONS ARE IN INCHES		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.				
TOLERANCES ON FRACTIONS $\pm 1/64$ DECIMALS $\pm .005$ ANGLES $\pm 1/2^\circ$		REMOVE ALL BURRS AND SHARP EDGES				

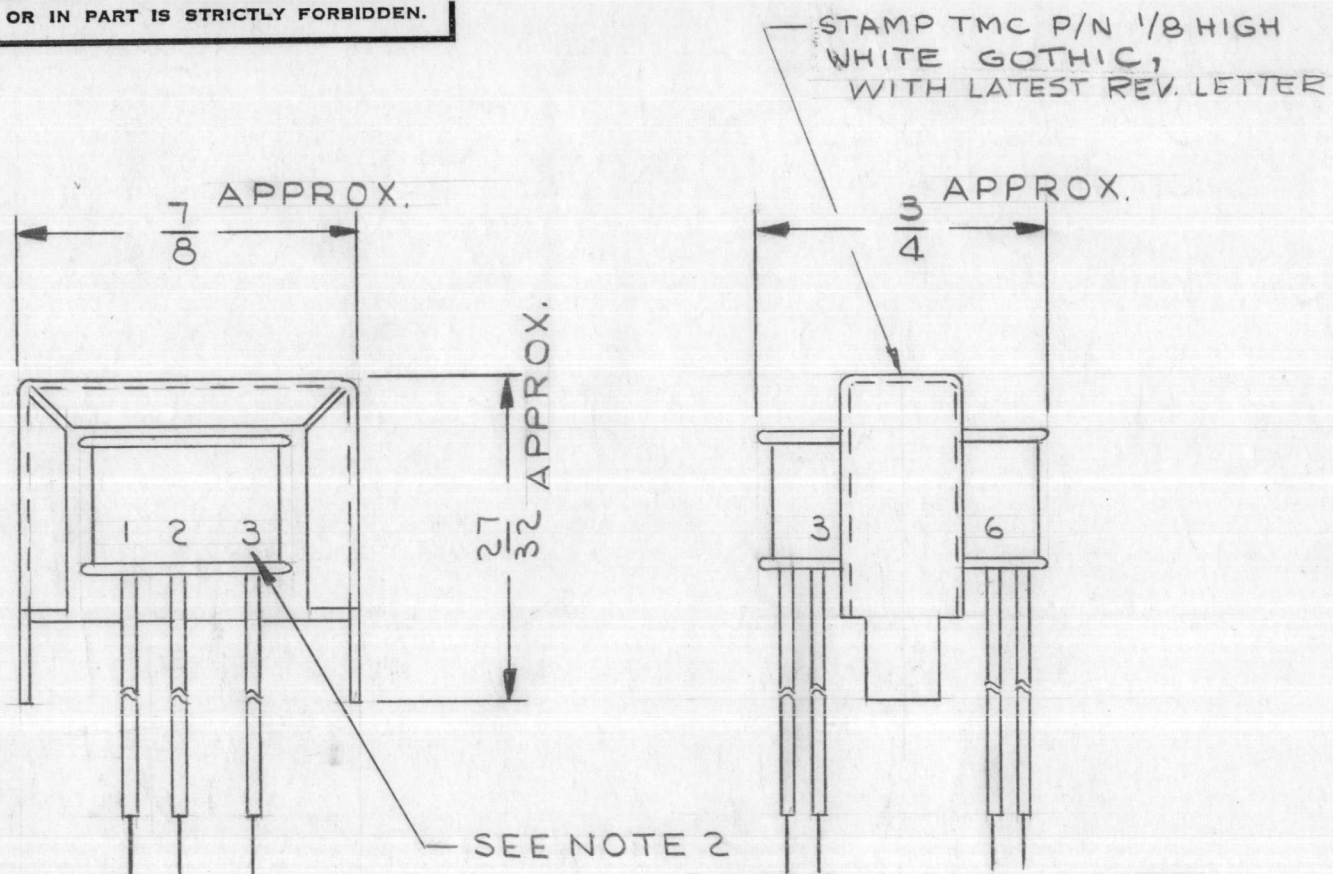
2	VLR-1		A-3021	
REQ. PER UNIT	MODEL	SECTION	ASS'Y. NO.	DATE

USED ON

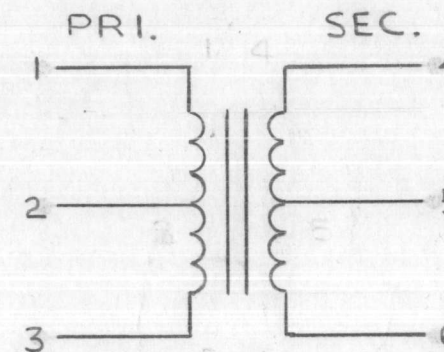
REQ. ITEM	PART NO.	M. GELLMAN	DESCRIPTION	SYMBOL
#			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
#			TRANSFORMER, AUDIO, INTERSTAGE	
#		J. LESHINSKI	<i>[Signature]</i>	<i>[Signature]</i>
#		WJB	WJB	TF-270 B
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED	FINAL APPROVAL
#				
FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.		

TF-271 C

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.



**SPECIFICATIONS:** AUDIO FREQUENCY  
 TYPE = LINE OUTPUT  
 IMPEDANCE  
 PRIMARY = 5KΩ CT  
 SECONDARY = 600Ω CT  
 DIRECT CURRENT RATING = NOT RATED  
 POWER RATING = 10 MW  
 TURNS RATIO, PRI. TO SEC. = NOT RATED  
 FREQUENCY DATA  
 FREQUENCY RANGE = 50-10,000 CPS  
 DB VARIATION OVER FREQ. RANGE = 3 DB RATED  
 CASE DATA  
 MATERIAL = ENCAPSULATED COLOR = BLACK  
 TERMINAL DATA  
 WIRE LEADS



**NOTES:-**

- 1- ALL DIMENSIONS ARE AFTER ENCAPSULATIONS.
- 2- ALL TERMINAL NO.'S TO BE STAMPED IN WHT.

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
C	CLERICAL CHANGE A3201 WAS A302A	1.21.65	-	22	@	
B	CLERICAL CHANGE	9.30.64	-	WB	@	
A	CASE COLOR ADDED TO SPECS "WHITE" ADDED TO STAMP NOTE	9.17.64	12381	WB	@	
O	ORIGINAL RELEASE FOR PRODUCTION	5/12/64	0	A.M.	@	

UNLESS OTHERWISE SPECIFIED:		SCALE: NONE   S-401-30	
DIMENSIONS ARE IN INCHES		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.	
TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/2°		REMOVE ALL BURRS AND SHARP EDGES	

REQ. PER UNIT	MODEL	SECTION	ASS'Y. NO.	DATE
1	VLR-1		A3201	
USED ON				

REQ. ITEM	PART NO.	M. GELLMAN	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		
STOCK SIZE		TRANSFORMER, AUDIO OUTPUT		
MATERIAL				
TYPE & TEMPER		HEAT TREAT. SPEC.	DRAWN	CHECKED
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.	FINAL APPROVAL
		J. LESHINSKI @	RAC	TF-271 C

SPECIFICATIONS: MER AUDIO OUTPUT

TYPE - AUDIO OUTPUT

IMPEDANCE:

PRIMARY - 500  $\Omega$ , C.T.

SECONDARY - 4  $\Omega$

DIRECT CURRENT - NOT RATED

MAX. AUDIO OPERATING LEVEL - 1 WATT

TURNS RATIO, PRIMARY TO SECONDARY - NOT RATED

FREQUENCY DATA:

FREQ. RANGE - 50 TO 10,000 CPS

DB VARIATION OVER FREQ RANGE - WITHIN 3DB.

CASE DATA:

TYPE - FULLY INCLOSED

MATERIAL - STEEL

FINISH - S-115, SMOOTH GRAY ENAMEL EXCEPT  
TERMINAL END.

HERMETICALLY SEALED

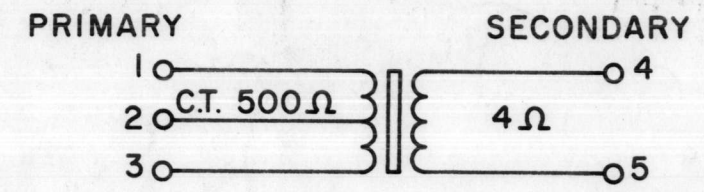
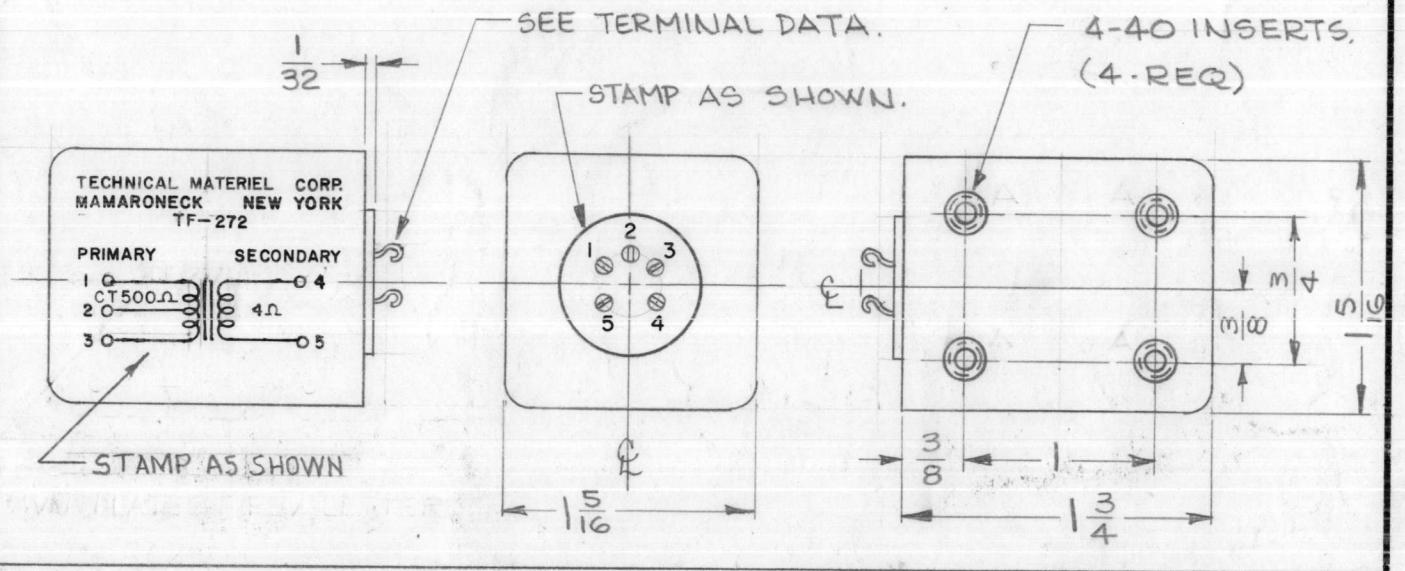
TERMINAL DATA:

QUANTITY - 5

TYPE - SOLDER STUDS

TF 272 A

REVISIONS						
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
O	ORIGINAL RELEASE FOR PRODUCTION	5-12-64	O	A.M.	@	
A	STAMP WAS "TMC PART NO."	9-25-64	12457	R.L.	@	



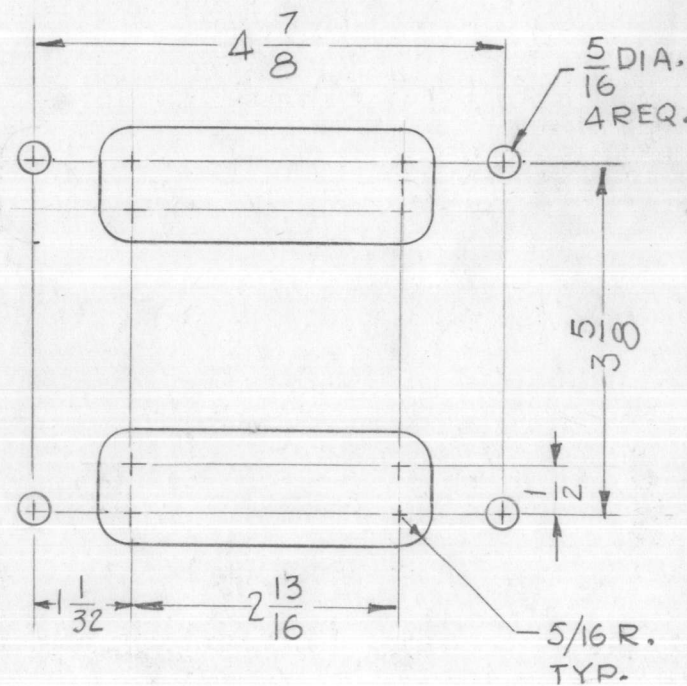
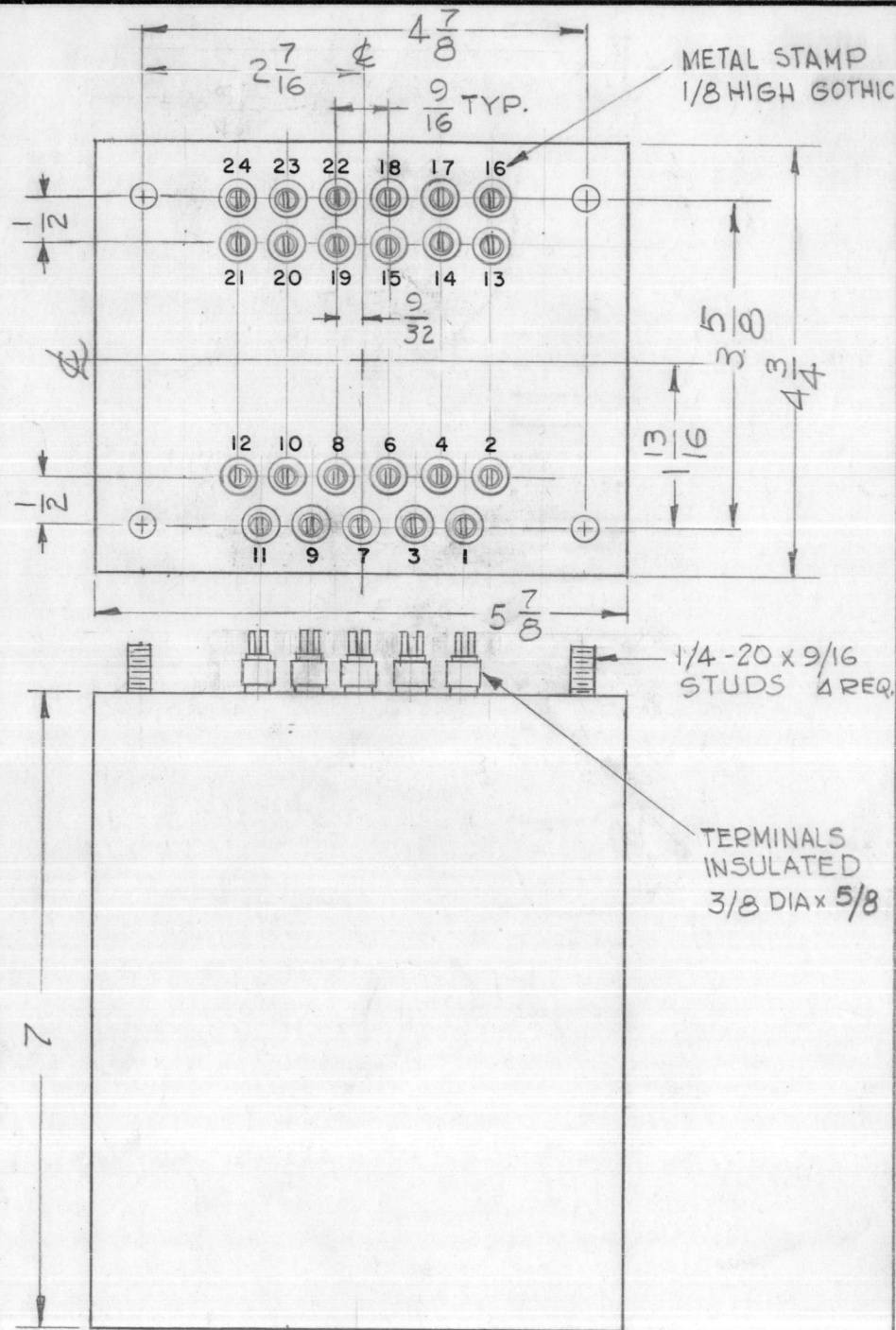
—SCHEMATIC DIAGRAM—

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
M. GELLMAN LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE	
SEE CASE DATA SPEC.			TRANSFORMER, AUDIO OUTPUT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES			DRAWN: <i>G. Sencan</i> DATE: 8-9-63 CHECKED: @ DATE: 5-7-64 ELECT. DES: <i>[Signature]</i> DATE: MECH. DES: <i>[Signature]</i> DATE: 5-7-64	FINAL APPROVAL: <i>[Signature]</i> DATE: TF-272 A SHEET
DECIMALS: .X $\pm$ .05 .XX $\pm$ .01 .XXX $\pm$ .005			TOLERANCES: $\pm$ 1/64 ANGLES: $\pm$ 0° 30'	

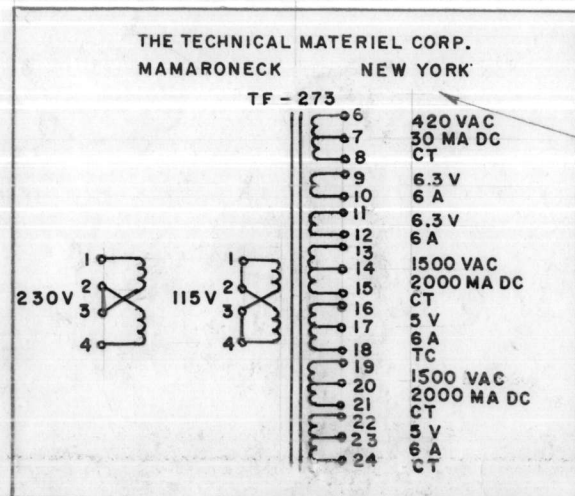
1	VLR-1	AX-434
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE: NONE	CODE: C	9401-30

NOTES

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.



MOUNTING DETAIL



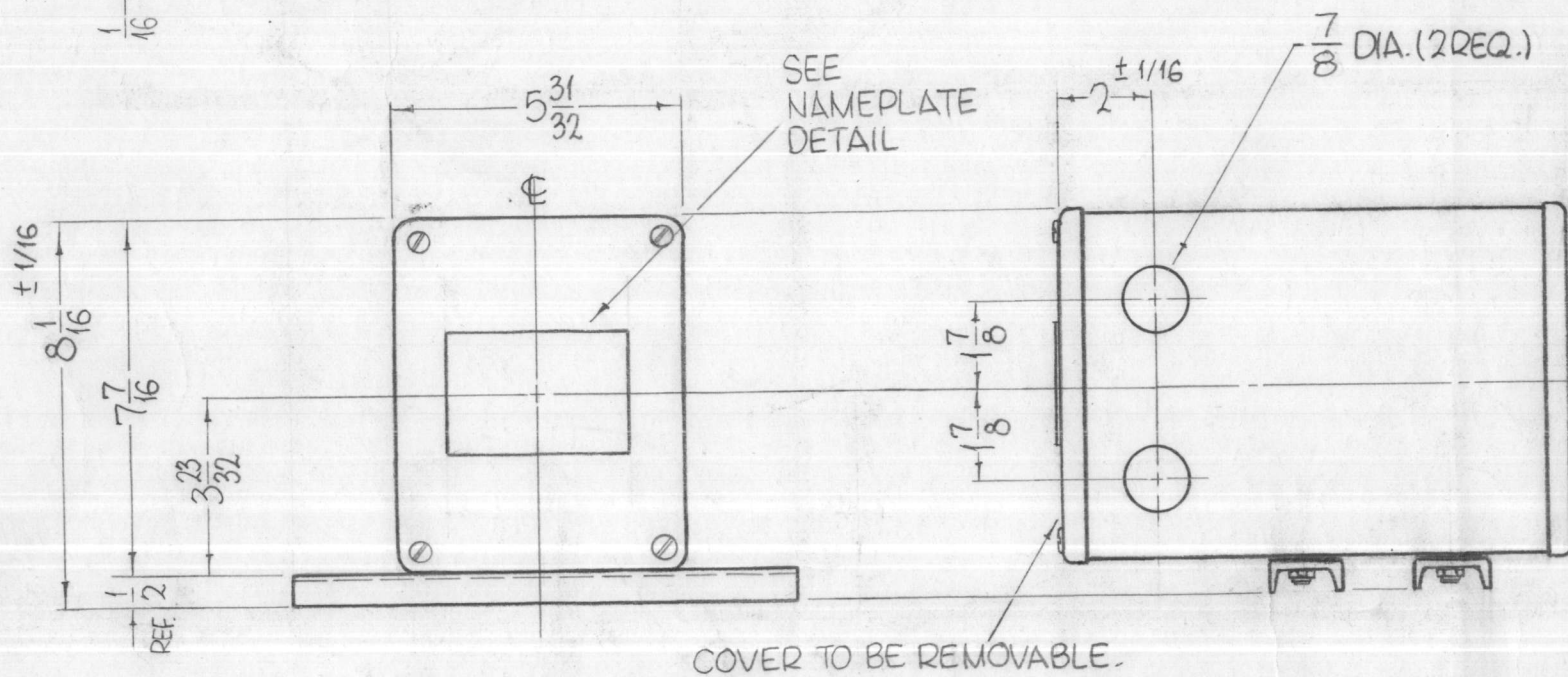
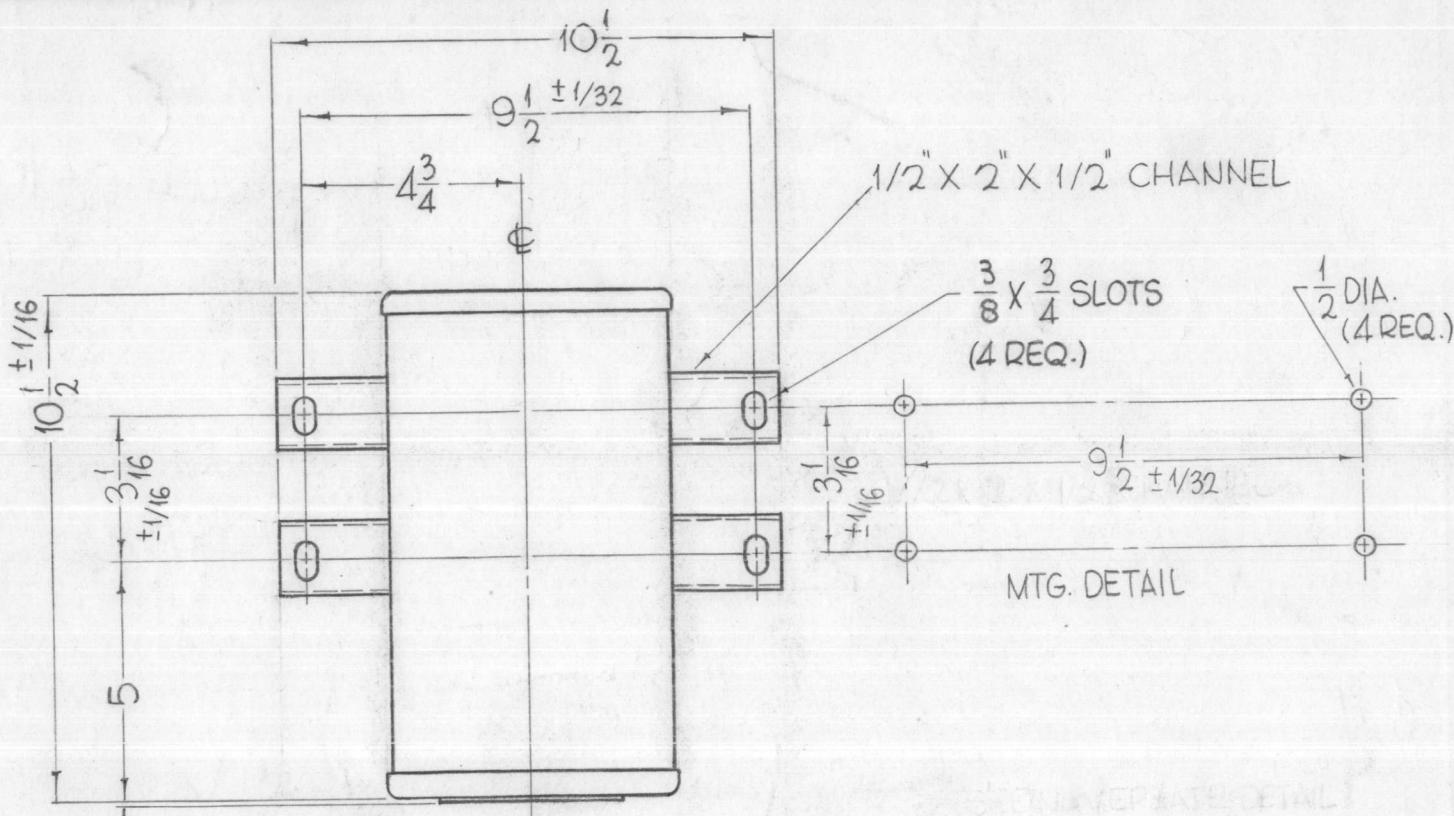
MARK AS SHOWN IN BLACK LETTERS 1/8 HIGH GOTHIC. MARKING PROCESS AS PER TMC SPEC. S-727

TF-273

REVISIONS					
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD APPD
Ø	ORIGINAL RELEASE FOR PRODUCTION	1/14/69	Ø		

- SPECIFICATIONS
- TRANSFORMER, POWER, BIAS SUPPLY
  - CASE DATA:  
STEEL, HERMETICALLY SEALED, SMOOTH GRAY ENAMEL FINISH PER TMC SPEC. S-115, EXCEPT TERMINAL END.
  - PRIMARY WINDING:  
115/230V  
50/60 CPS
  - SECONDARY WINDINGS:  
A. 1500 V. CT AT 200 MA FOR 750 INTO CHOKE INPUT FILTER  
B. 1500 V. CT AT 200 MA FOR 750 VOLTS DC INTO CHOKE INPUT FILTER  
C. 5 VOLTS C.T. AT 6 AMPS  
D. 5 VOLTS C.T. AT 6 AMPS  
E. 6.3 VOLTS AT 6 AMPS  
F. 6.3 VOLTS AT 6 AMPS  
G. 420 V C.T. AT 30MA FOR 210 VOLTS INTO R-C FILTER  
INSULATION: 2000 VOLTS
  - TERMINALS: INSULATED TYPE 3/8 DIA . x 5/8 HIGH
  - SCHEMATIC DIAGRAM TO BE PLACED ON END OPPOSITE TERMINAL END,
- NOTE:  
MANUFACTURED IN ACCORDANCE WITH MIL-T-27A EXCEPT THAT MIL-T-27A SHALL NOT APPEAR ON CASE AND NO QUALIFICATION TESTING IS REQUIRED.

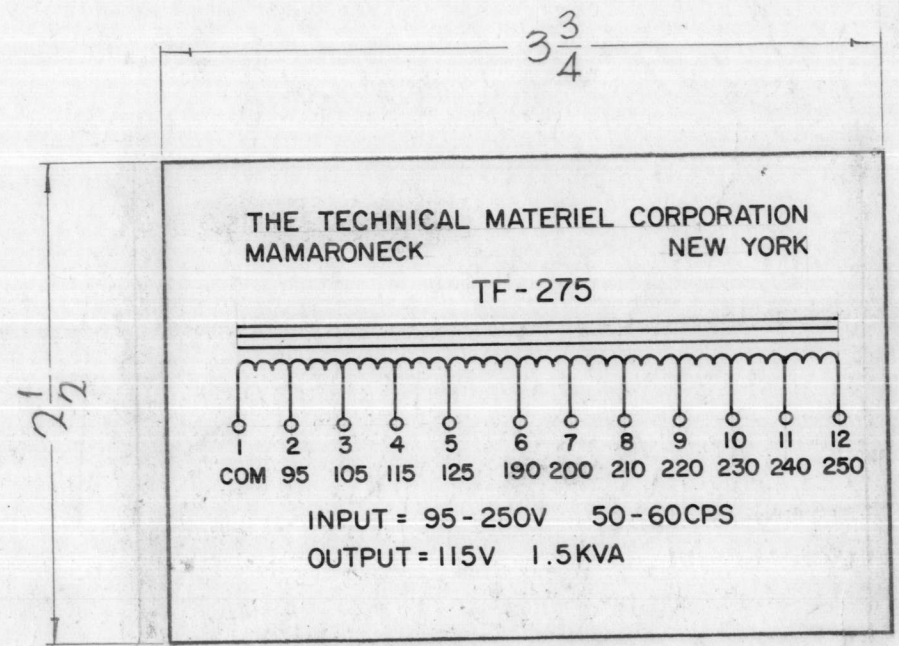
REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE TRANSFORMER, POWER BIAS SUPPLY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES			DRAWN G.D.L.	DATE 10-5-63
SCALE 1:2			CHECKED	DATE
MODEL USED ON GPT-40KLF			ELECT. DES. RT	DATE
ASS'Y. NO. S401-30			MECH. DES.	DATE
TOLERANCES			FINAL APPROVAL Ø K SPT 8/8/69	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005			TF-273	
FRACTIONS ± 1/64 ANGLES ± 0° 30'			SHEET	
THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.			REV. LTR.	



TF-275 B

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT
O	ORIGINAL RELEASE FOR PRODUCTION	5-4-64		SRG
A	(4) SLOTS WERE 1/2 X 3/4	8-6-64	10254	SRG
B	7/8 DIA (2 REQ) WAS 1 3/8 DIA (2 REQ)	12-24-64	13170	SRG



NAMEPLATE DETAIL

CASE DATA:  
MAT'L - STEEL  
FINISH - S115 - SMOOTH GRAY ENAMEL.  
TERMINAL DATA:  
QUAN - 12, TYPE - MTG. SCREW

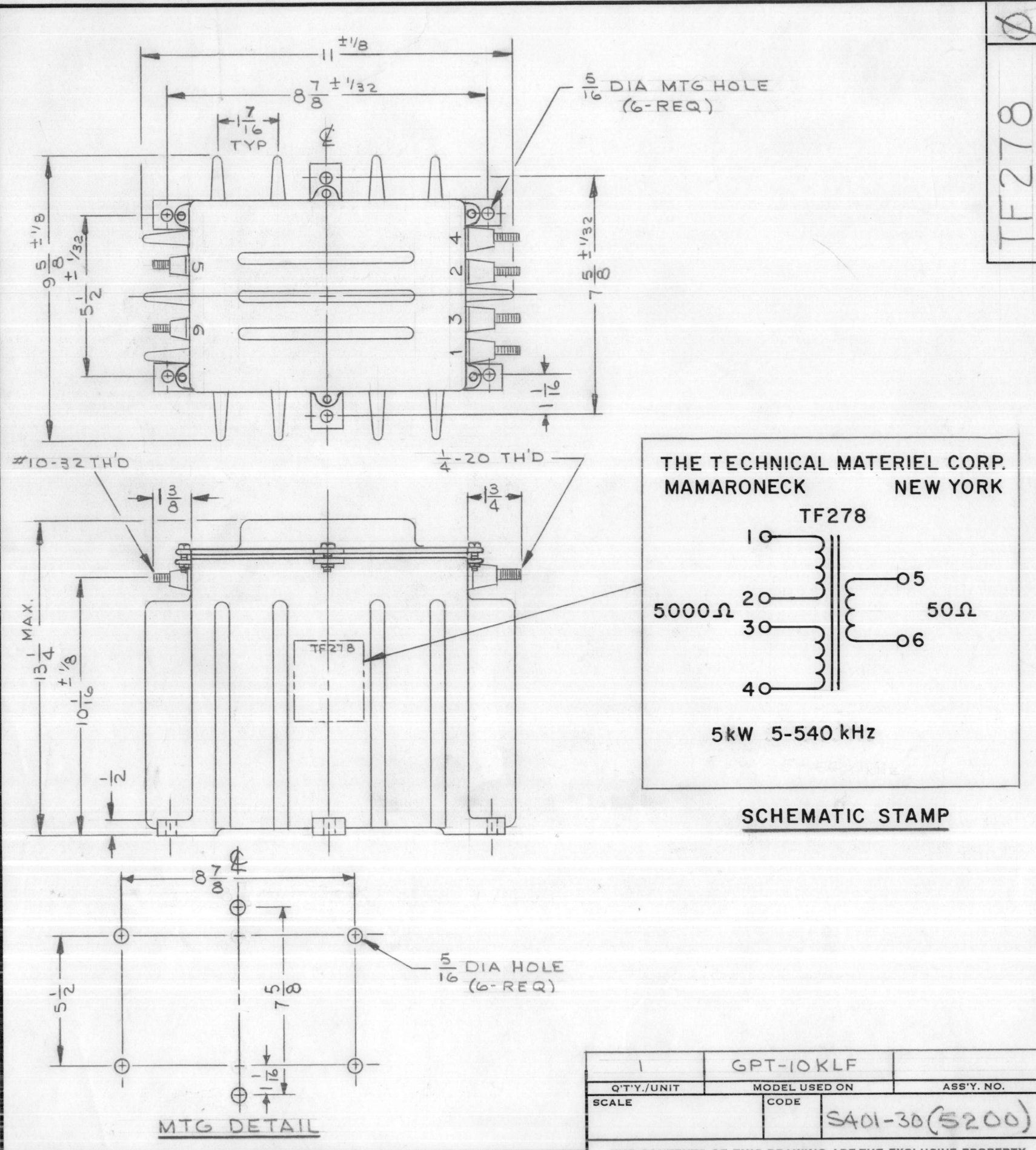
OVERALL WINDING DATA:  
INPUT - 95-250V, OUTPUT - 115V  
FREQ - 50-60 CPS, KVA RATING - 1.5  
TAP DATA:  
QUAN: 12  
VOLTAGE - INPUT - 95-250V,  
OUTPUT - 115V

NOTES

1 EACH	DDR-7B, C	
1	GPTIDK(R)7 (AX507)	
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE #	CODE A	

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
MATERIAL		SEE NOTES		
FINISH		SEE NOTES		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		TOLERANCES		
DECIMALS	.X ± .05	FRACTIONS	± 1/64	ANGLES
	.XX ± .01		± 0° 30'	
	.XXX ± .005			
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		TITLE TRANSFORMER, POWER, FIXED AUTOTRANSFORMER		
DRAWN John C Biele	DATE 2-13-64	FINAL APPROVAL [Signature]		DATE
CHECKED [Signature]	DATE 5/3/64	DATE TF-275		B
ELECT. DES. [Signature]	DATE	SHEET		REV. LTR.
MECH. DES.	DATE			



REVISIONS						
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
X	EXP. RELEASE	10/15/66		JL	<i>[Signature]</i>	
X1	CHG'D 1-3/16 TO 1-7/16. RELOC 2 MTG HOLES FR 5-1/2 TO 7-5/8. ADDED 1/16 DIM	1-9-67		RME		
Ø	ORIGINAL RELEASE FOR PRODUCTION	1/10/67		CV		

**SPECIFICATIONS**

**IMPEDANCE DATA:**

INPUT IMPEDANCE: 5000 Ω BALANCED  
OUTPUT IMPEDANCE: 50 Ω UNBALANCED

OPERATING FREQUENCY: 5 TO 540 kHz

AVERAGE POWER RATING: 5 kW AVR 25 kW PEAK

INSULATION TEST:  
PRIMARY TO GRD TERM 2&3 TIED TOGETHER 15 K VRMS  
SECONDARY TO GRD EITHER TERMINAL 2 K VRMS

CASE DATA:  
HERMETICALLY SEALED: NO  
CASE TYPE: OPEN FRAME

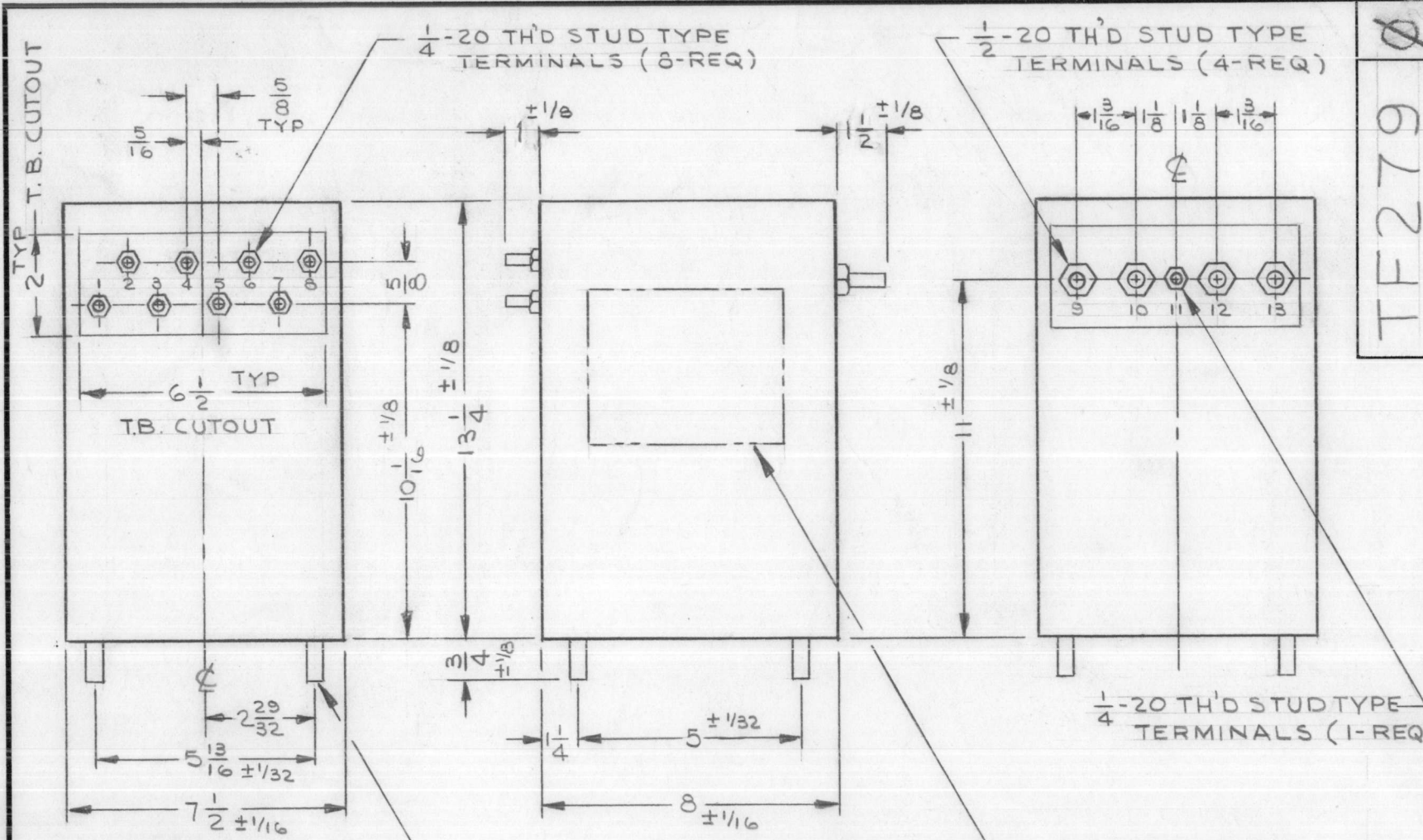
NOTE: TO BE MANUFACTURED IN ACCORDANCE WITH MIL-T-27, EXCEPT THAT MIL-T-27 SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING NOT REQUIRED.

BTC#5200

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
BUDETTI LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE TRANSFORMER, RF, OUTPUT PUSH-PULL FIXED	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES			DRAWN J. LESHINSKI CHECKED <i>[Signature]</i>	DATE 10/15/66 DATE
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005			FINAL APPROVAL <i>[Signature]</i> DATE 1/10/67	
FRACTIONS ± 1/64 ANGLES ± 0° 30'			ELECT. DES. <i>[Signature]</i>	DATE
TOLERANCES			MECH. DES. <i>[Signature]</i>	DATE
THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.			SHEET TF278	
			REV. LTR.	



# STANDARD DRAWING



**TF 279**

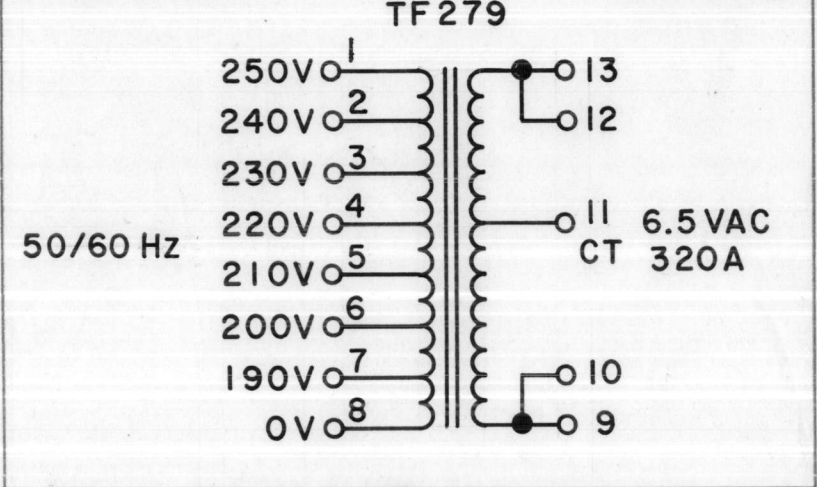
REVISIONS					
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD
X <sub>1</sub>	ADDED T.B. CUTOUT REF.; NO LOAD VOLTAGE	1/9/66		JL	
X <sub>2</sub>	CHG'D 15/16 TO 1 ± 1/8 & 1 1/16 TO 1 1/2 ± 1/8	1-9-67		RME	
Ø	ORIGINAL RELEASE FOR PRODUCTION	1/10/67	Ø	CV	

- SPECIFICATIONS -

1. PRIMARY WINDING:
  - A. VOLTAGE: 190, 200, 210, 220, 230, 240, 250 V
  - B. FREQUENCY: 50/60 Hz
  - C. PHASE: 1
2. SECONDARY WINDING:
  - A. FULL LOAD:
    - 1. VOLTAGE: 6.5 VAC CT
    - 2. CURRENT: 320 AMPS
  - B. NO LOAD VOLTAGE 6.7 V
3. BREAKDOWN VOLTAGE: 1500 VAC
4. CASE DATA:
  - 1. HERMETICALLY SEALED: NO
  - 2. CASE TYPE: STEEL CASE
5. TERMINAL DATA:
  - 1. NO. OF TERMINALS: 13
  - 2. TYPE: 9-(1/4"-20THD STUD), 4-(1/2"-20THD STUD)
6. FINISH: SMOOTH GRAY ENAMEL (TMC SPEC S115)
7. MARKING:
  - 1. ALL TERMINALS TO BE METAL STAMPED 1/8 HIGH GOTHIC
  - 2. SCHEMATIC STAMP MARKING TO BE PER TMC SPEC S727

NOTE: TO BE MANUFACTURED IN ACCORDANCE WITH MIL-T-27 EXCEPT THAT MIL-T-27 SHALL NOT APPEAR ON CASE & QUALIFICATION TESTING IN NOT REQUIRED.

**THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK**



**SCHMATIC STAMP**

1	GPT-10KLF	
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE <b>H</b>	CODE	S401-30 (5595)

**NOTES**

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS	TOLERANCES	FRACTIONS
.X ± .05 .XX ± .01 .XXX ± .005		± 1/64 ANGLES ± 0° 30'

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
<b>BUDETTI LIST OF MATERIAL</b>				
MATERIAL			<b>THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK</b>	
FINISH			TITLE <b>TRANSFORMER, POWER - STEP DOWN</b>	
DRAWN J. LESHINSKI		DATE 3/21/66	FINAL APPROVAL <i>[Signature]</i>	
CHECKED <i>[Signature]</i>		DATE	DATE 1/10/67	
ELECT. DES. <i>[Signature]</i>		DATE 11/7/66	<b>TF 279</b>	
MECH. DES. <i>[Signature]</i>		DATE	SHEET	
MIL. SPEC. JAN 10-66			REV. LTR.	

STANDARD DRAWING

TF280

REVISIONS

SYM	DESCRIPTION	DATE	E. M. N. NO.	DRAFT	CHKD	APPD
Ø	ORIGINAL RELEASE FOR PRODUCTION	1/9/67		WTO		

SPECIFICATIONS

ELECTRICAL:

INDUCTANCE: 14 HY  
 DC CURRENT RATING: 2.5 A  
 DC RESISTANCE:  
 INSULATION TEST VOLTAGE: 15 KV

MECHANICAL:

CASE: COLD ROLLED STEEL  
 FINISH: SMOOTH GREY ENAMEL (TMC SPEC S115) EXCEPT MTG STUD END

TERMINAL DATA:

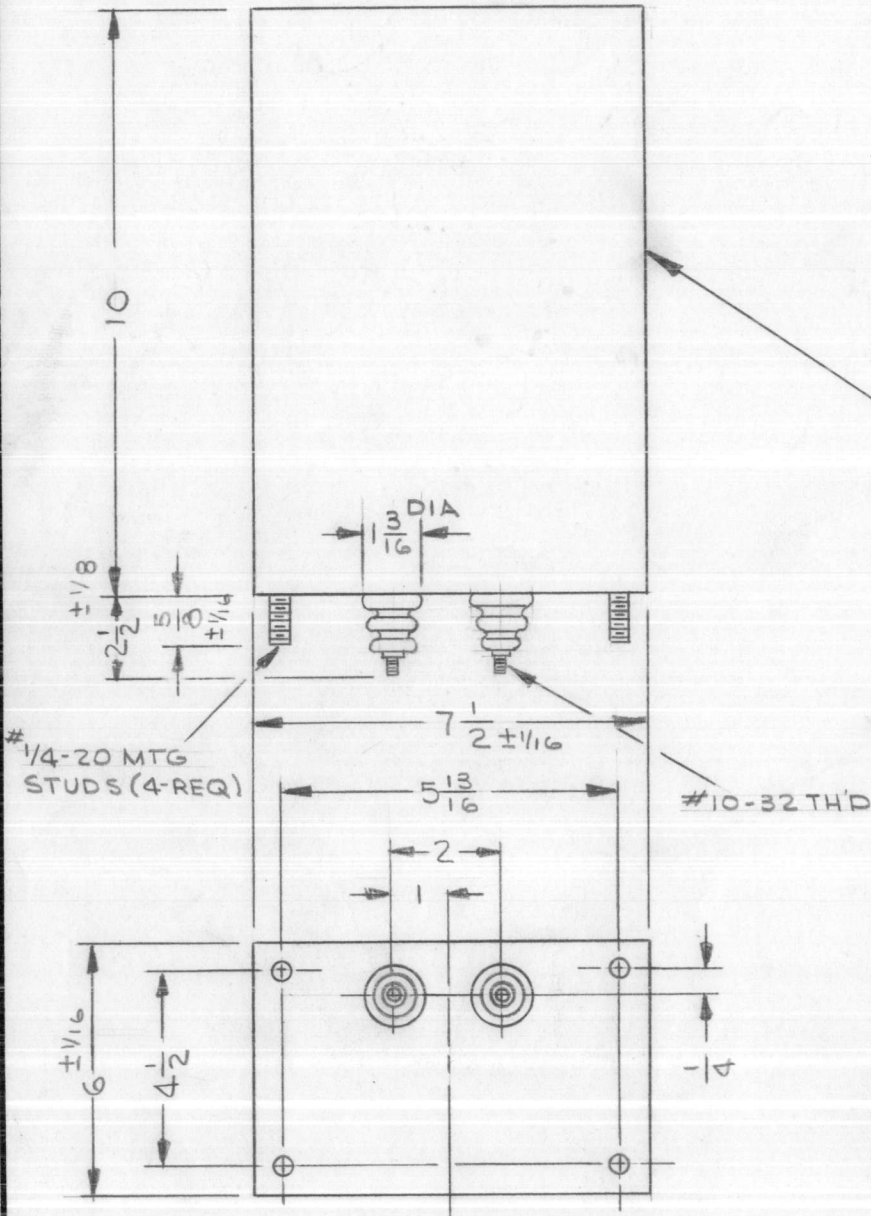
TYPE: PILLAR, THREADED STUD #10-32

STAMPING:

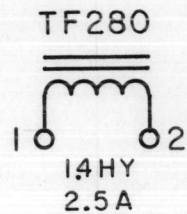
TERMINALS SHALL BE METAL STAMPED 1-2 AS SHOWN. SCHEMATIC DIAGRAM TO BE PLACED WHERE SHOWN. ALL LETTERING & LINEWORK TO BE IN ACCORDANCE WITH TMC SPEC S727.

NOTE:

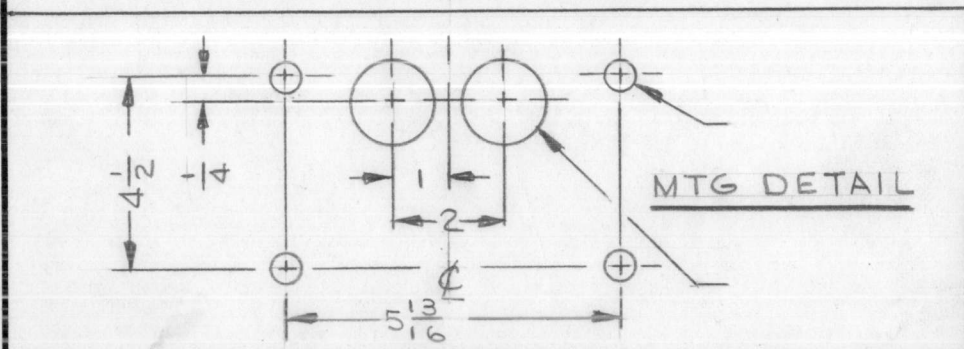
MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING NOT REQUIRED



THE TECHNICAL MATERIEL CORP.  
 MAMARONECK NEW YORK



SCHEMATIC STAMP



NOTES

1	GPT-10KLF	
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE	CODE	5401-30 (5596)

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

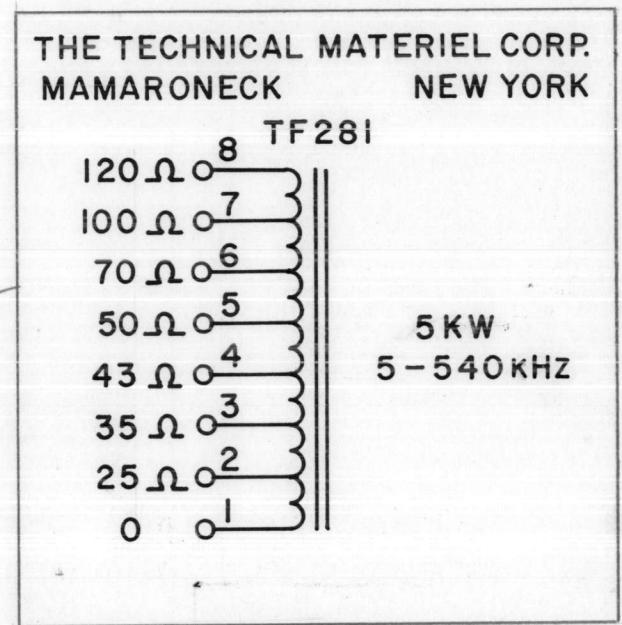
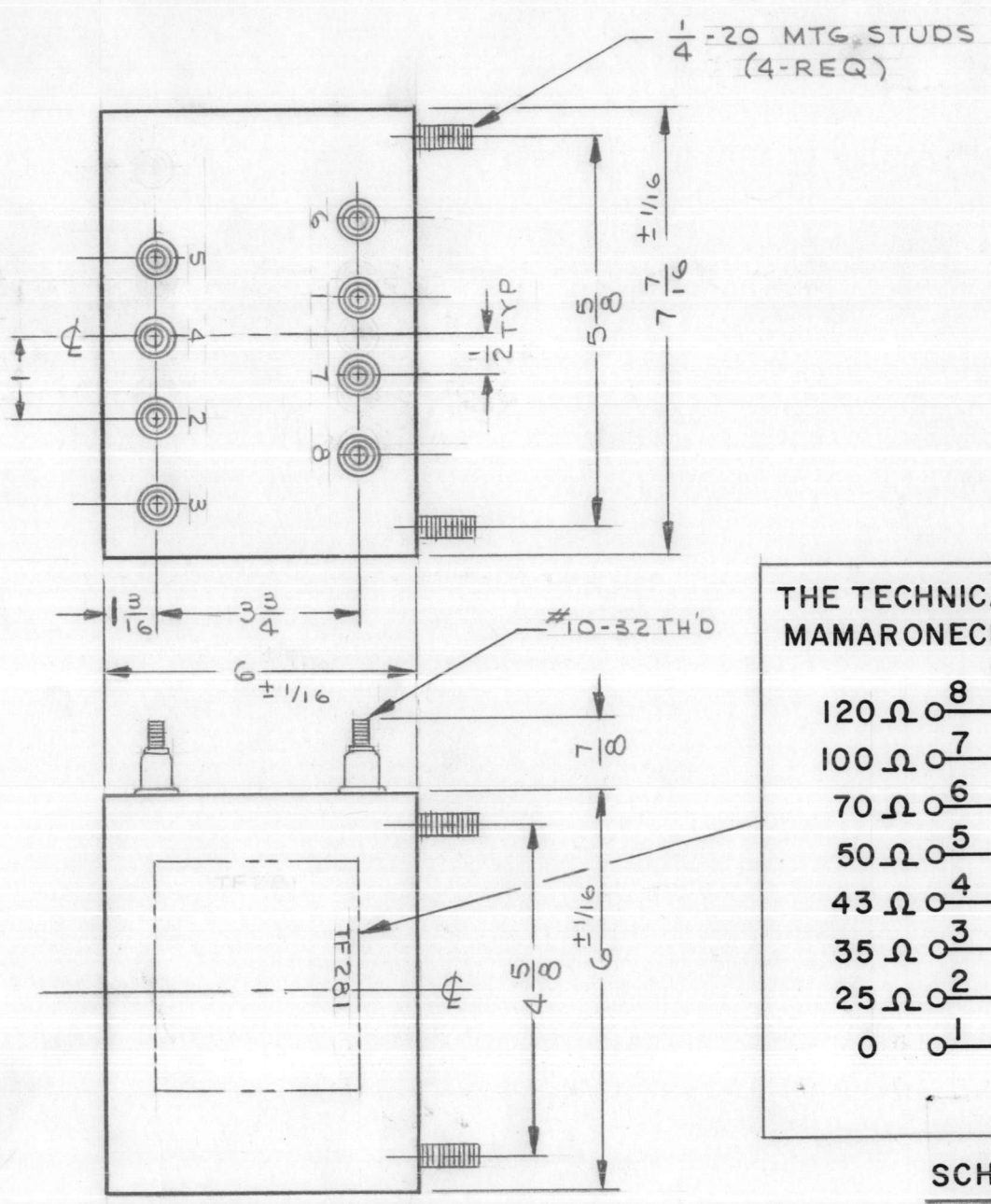
REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
BUDETTI LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE CHOKE, FILTER	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES			DRAWN J. LESHINSKI CHECKED ELECT. DES. MECH. DES.	DATE 10/14/66 DATE 11/29/66 DATE DATE
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005			TOLERANCES ± 1/64 ANGLES ± 0° 30'	FINAL APPROVAL DATE 1/9/67 TF280 SHEET REV. LTR.

# STANDARD DRAWING

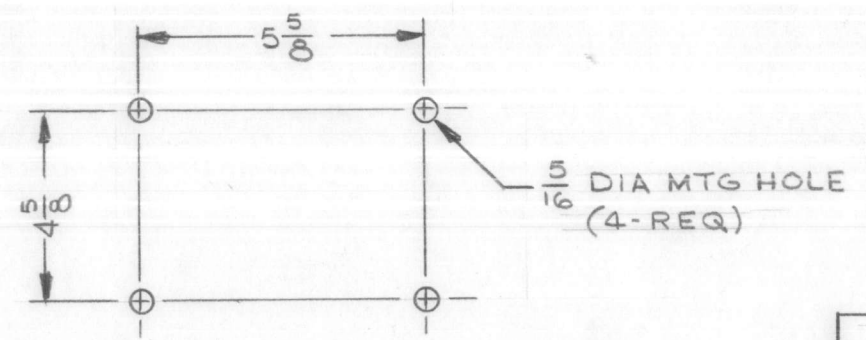
TF281

## REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
X	EXP. RELEASE	10/14/66		JL	JL	
Ø	ORIGINAL RELEASE FOR PRODUCTION	1-9-67	4	WFO	JL	



**SCHEMATIC STAMP**



**MTG DETAIL**

## NOTES

1	GPT-10KLF	
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE	CODE	S401-30 (5201)

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

## SPECIFICATIONS

### ELECTRICAL

INSULATION TEST VOLTAGE: 2 KV RMS  
POWER CAPABILITY: 5 KW AVERAGE  
25 KW PEAK  
FREQUENCY: 5-540 KHZ

### TAP DATA

QUANTITY: 8  
IMPEDANCE: 0, 25, 35, 43, 50, 70, 100, 120 Ω

### MECHANICAL

CASE: COLD ROLLED STEEL  
FINISH: S115 SMOOTH GREY ENAMEL (EXCEPT TERMINALS)  
TERMINALS: CERAMIC, STANDOFF THREADED STUD (#10-32 THD)  
TOLERANCE: ±1/32 UNLESS OTHERWISE SPECIFIED

### STAMPING

ACCORDING TO TMC SPEC S727, BLACK GOTHIC LETTERING & LINE WORK. SCHEMATIC TO BE PLACED 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 NOT REQUIRED

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
--------	------	-------------	-------------	--------

## BUDETTI LIST OF MATERIAL

MATERIAL	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
FINISH	TITLE FIXED AUTOTRANSFORMER, R.F.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	DRAWN J. LESHINSKI	DATE 10/14/66	FINAL APPROVAL <i>[Signature]</i> 1/9/67	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	CHECKED <i>[Signature]</i>	DATE 11/11/66	DATE 11/11/66	
FRACTIONS ± 1/64 ANGLES ± 0° 30'	ELECT. DES. <i>[Signature]</i>	DATE	SHEET	
TOLERANCES	MECH. DES. <i>[Signature]</i>	DATE	REV. LTR.	

*HL Alex Jan 10, 1966*

TF282

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
X	EXP. RELEASE	10/3/66		JL	file	
Ø	ORIGINAL RELEASE FOR PRODUCTION	1-9-67	tt	WTO		

SPECIFICATIONS

- PRIMARY WINDING:
  - VOLTAGE: 115/230 V
  - FREQUENCY: 50/60 HZ
  - PHASE: 1
- SECONDARY WINDING:
  - FULL LOAD:
    - VOLTAGE: 25 VAC
    - CURRENT: 4.5 VA
  - NO LOAD VOLTAGE: 30.5 V RMS
- BREAKDOWN VOLTAGE: 1000 VAC
- CASE DATA:
  - HERMETICALLY SEALED
  - CASE TYPE: STEEL CASE
- TERMINAL DATA:
  - NO. OF TERMINALS: 6
  - TYPE: STANDOFF, SOLDER TERMINAL
- FINISH: SMOOTH GRAY ENAMEL(TMC SPEC S115)
- MARKING:
  - ALL TERMINALS TO BE METAL STAMPED 3/32 HIGH GOTHIC
  - SCHEMATIC STAMP MARKING TO BE PER TMC SPEC S727

NOTE: TO BE MANUFACTURED IN ACCORDANCE WITH MIL-T-27, EXCEPT THAT MIL-T-27 SHALL NOT APPEAR ON CASE & QUALIFICATION TESTING IS NOT REQUIRED.

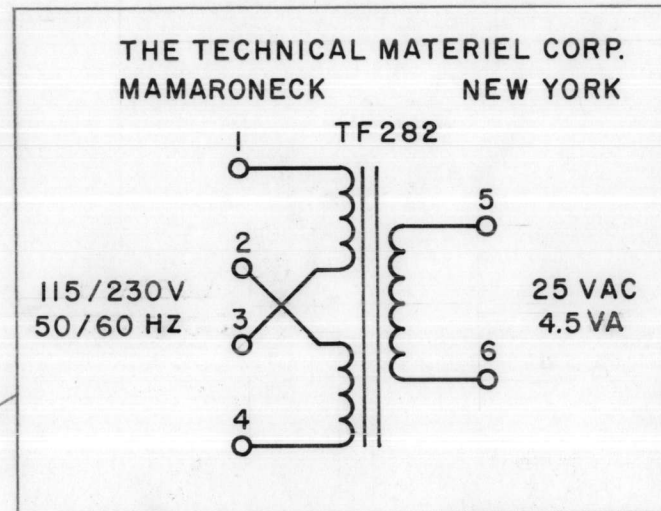
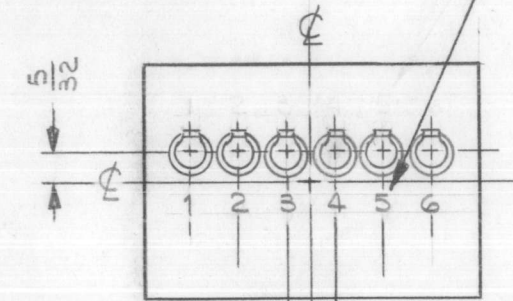
REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
--------	------	-------------	-------------	--------

BUDETTI

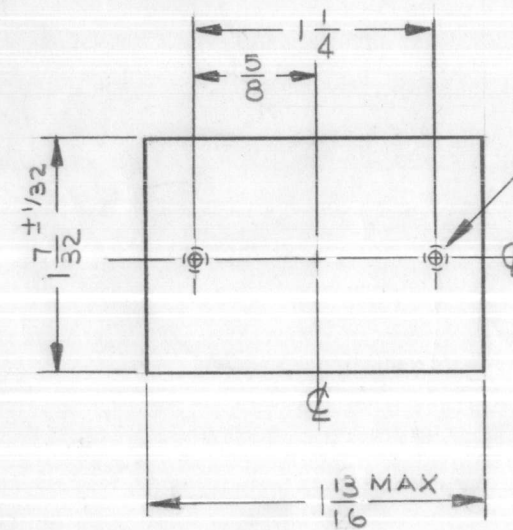
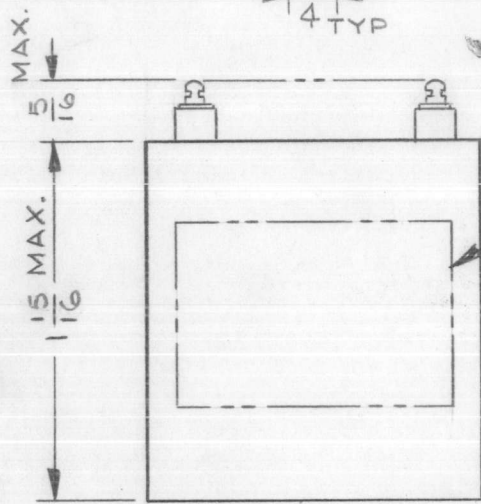
LIST OF MATERIAL

MATERIAL	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
FINISH	TITLE TRANSFORMER, POWER			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	DRAWN J. LESHINSKI	DATE 9-21-66	FINAL APPROVAL <i>[Signature]</i>	
	CHECKED <i>[Signature]</i>	DATE	DATE 1/9/67	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	TOLERANCES	FRACTIONS ± 1/64 ANGLES ± 0° 30'	ELECT. DES. <i>[Signature]</i>	DATE
		MECH. DES. <i>[Signature]</i>	DATE	SHEET TF282
			REV. LTR.	Ø

METAL STAMP 3/32 HIGH GOTHIC



SCHEMATIC STAMP



#6-32 X 1/4 DEEP  
MTG INSERTS (2-REQ)

NOTES

1	GPT-10KLF	
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE	CODE	S401-30 (5648)

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

DECIMALS  
.X ± .05  
.XX ± .01  
.XXX ± .005

FRACTIONS  
± 1/64  
ANGLES  
± 0° 30'

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
XI	TERMINAL STYLE CHANGED	6-23-65	M	JC		
Ø	ORIGINAL RELEASE	11-29-65	Ø		JDC	

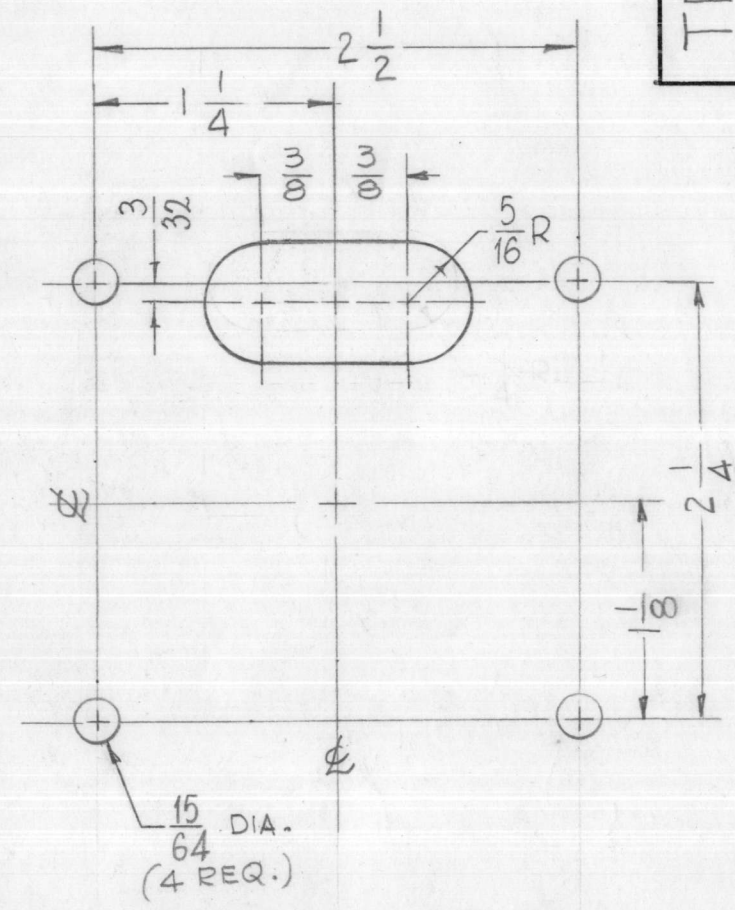
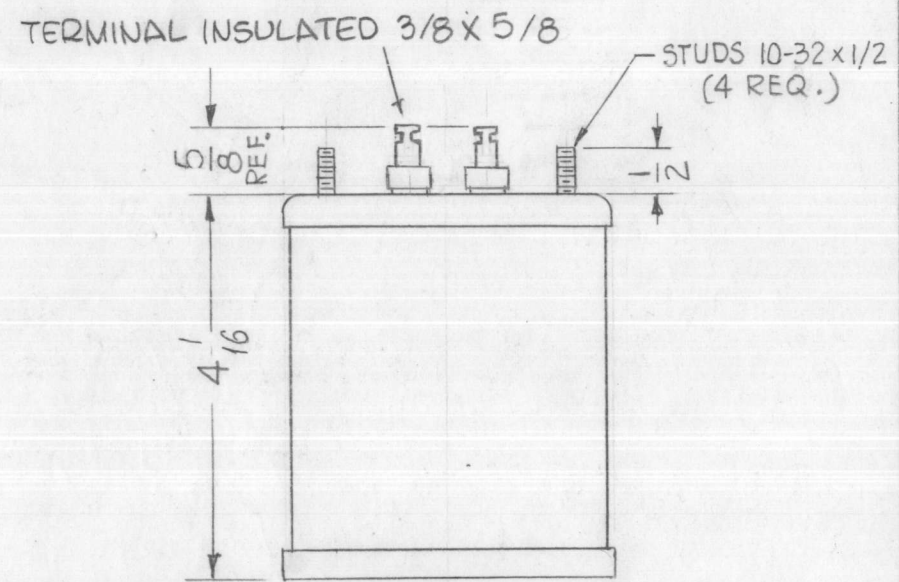
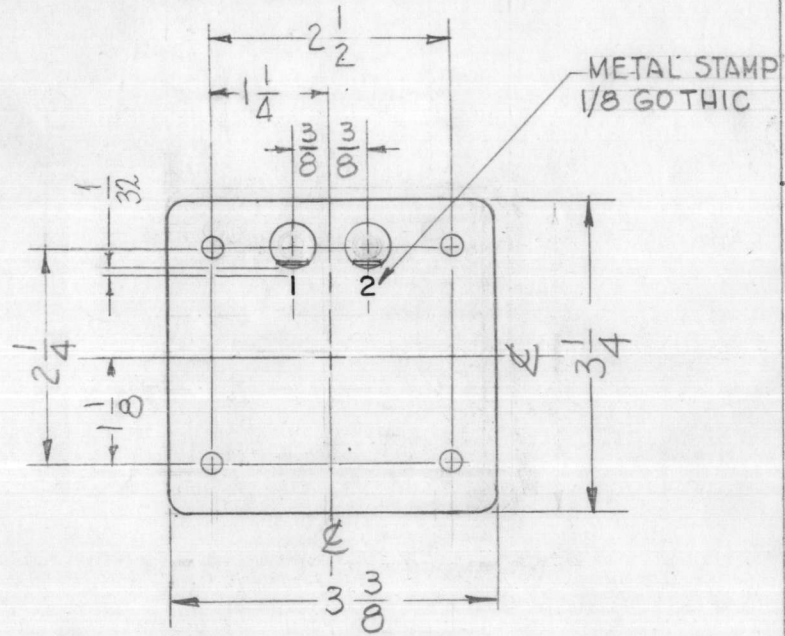
TF 283

-ELECTRICAL SPECIFICATIONS-

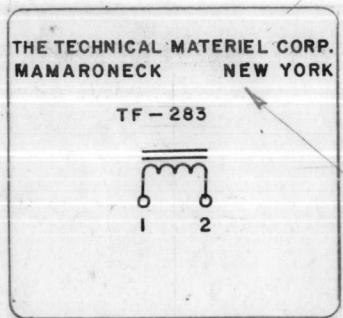
1. REACTOR, FILTER
2. INDUCTANCE TYPE: FIXED
3. COIL DATA:
  - A. SINGLE COIL
  - B. 9 HY INDUCTANCE
  - C. 280 MA
  - D. DC RESISTANCE: 85Ω APPROX.

-MECHANICAL SPECIFICATIONS-

1. CASE DATA
  - A. HERMETICALLY SEALED
  - B. RECTANGULAR METAL CASE, MIL TYPE YY.
  - C. BODY DIMENSIONS:
    - 3 1/4" LONG
    - 3 3/8" WIDE
    - 4 1/16" HIGH
2. MOUNTING DATA:
  - A. MOUNTING METHOD: STUD
  - B. MOUNTING DIM:
    - (4) #10-32 THD. STUDS ON 2-1/4 X 2-1/2 CENTERS 1/2 HIGH.
3. TERMINAL DATA:
  - A. 2 TERMINALS
  - B. SOLDER STUD TYPE 5/8 HIGH INSULATED
4. FINISH:
  - SMOOTH GRAY ENAMEL (TMC SPEC. S-115) EXCEPT TERMINAL END.
5. MARKING:
  - METAL STAMP TERMINALS 1 & 2 AS SHOWN.
  - MARK BOTTOM AS SHOWN PER TMC SPECIFICATION S727.



MOUNTING DATA (SCALE 1:1)



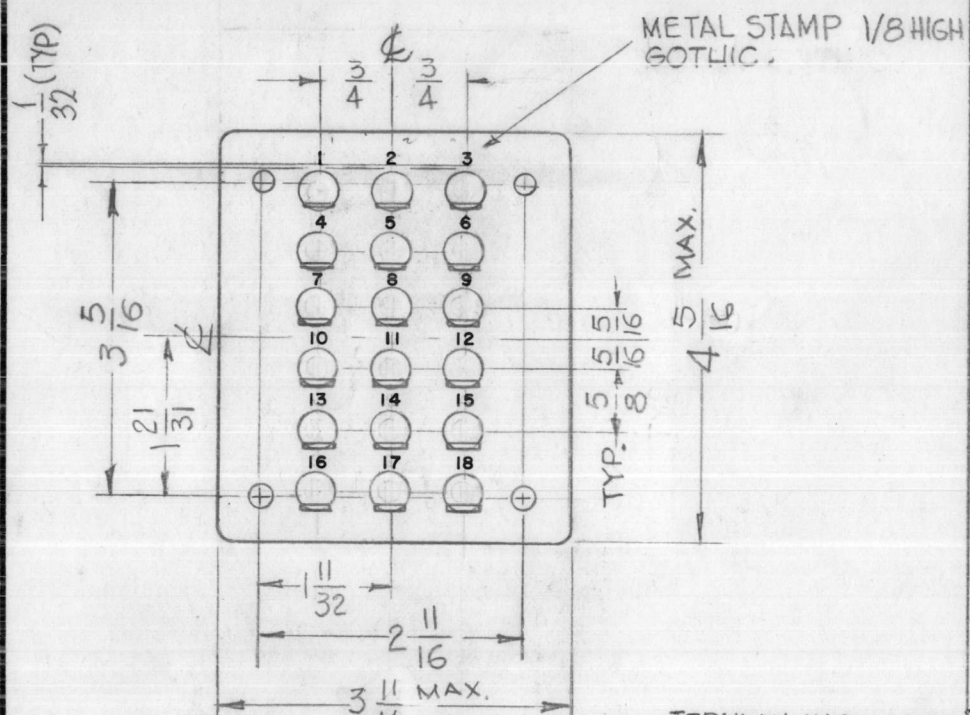
MARK AS SHOWN IN BLACK LETTERS 1/8 HIGH GOthic, MARKING PROCESS: AS PER TMC SPEC. S-727

NOTES

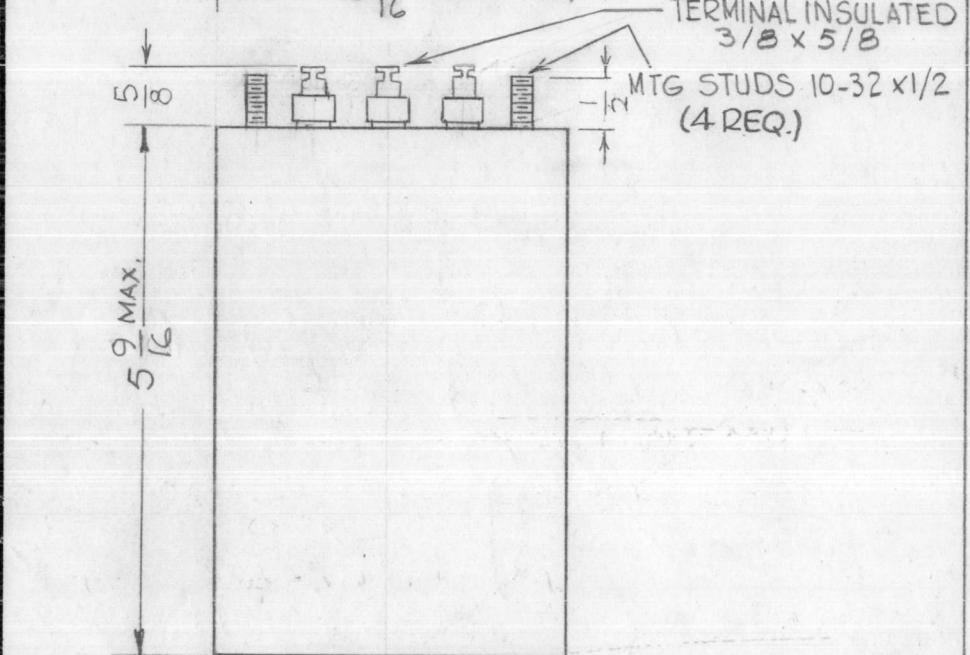
4	VLLA-1	
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE 1:2	CODE C	S401-30 (5758)

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

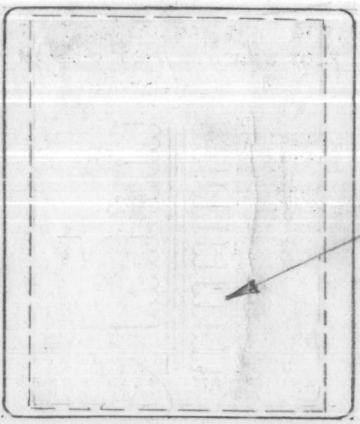
REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
POSE LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE REACTOR, FILTER - 9HY - 280 MA	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES			DRAWN G.D.L.	DATE 4/7/64
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005			CHECKED JCB	DATE 6/24/65
FRACTIONS ± 1/64 ANGLES ± 0° 30'			ELECT. DES. JCB	DATE
TOLERANCES			MECH. DES. JCB	DATE
			FINAL APPROVAL [Signature] DATE 11/29/65	
			TF 283	
			SHEET	REV. LTR.



METAL STAMP 1/8 HIGH  
GOTHIC.

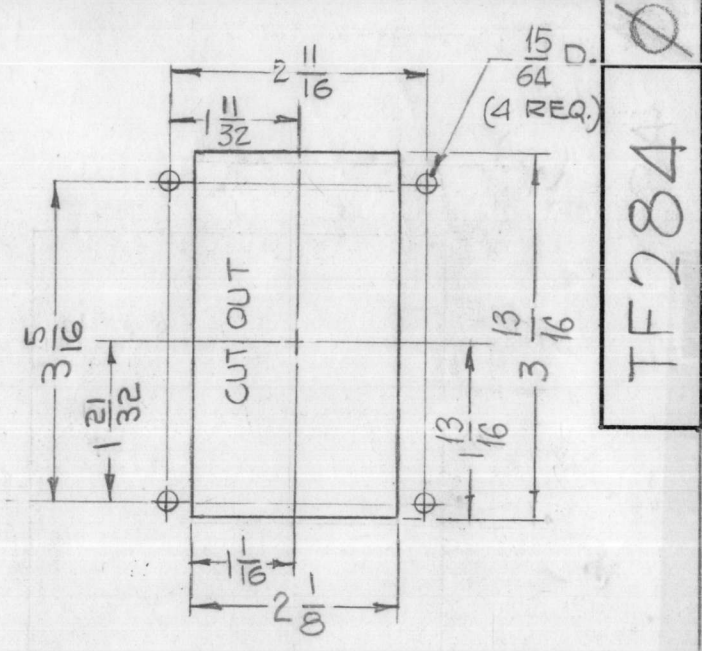


TERMINAL INSULATED  
3/8 x 5/8  
MTG STUDS 10-32 x 1/2  
(4 REQ.)

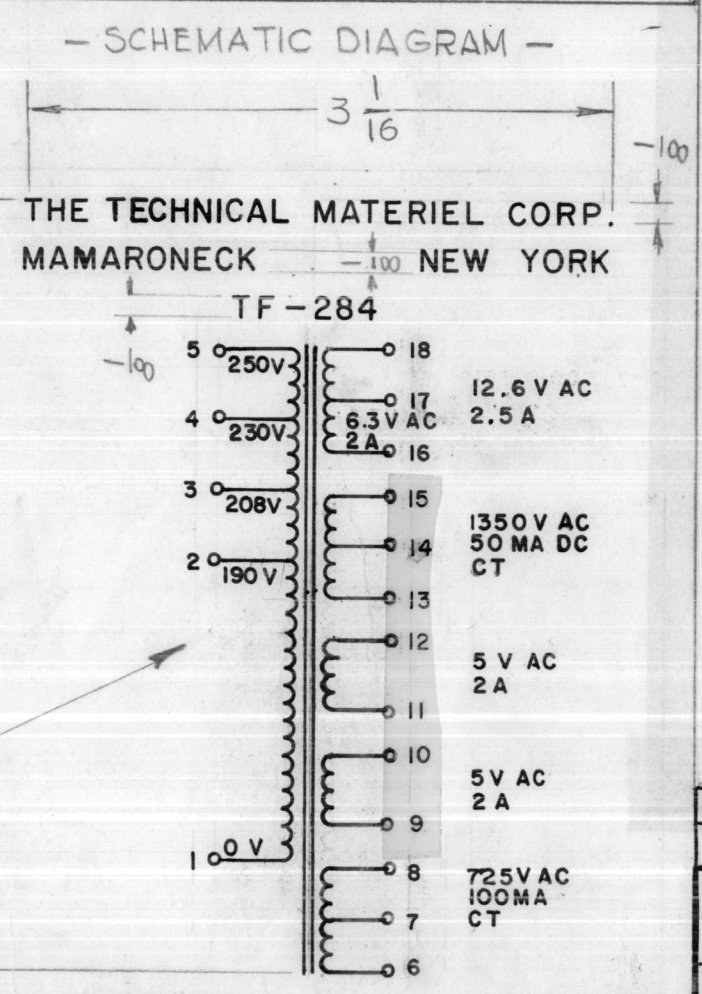


UNLESS OTHERWISE SPECIFIED  
MARK AS SHOWN  
IN BLACK LETTERS  
5/64 HIGH GOTHIC  
MARKING PROCESS.  
AS PER TMC SPEC. S-727

**NOTES**



- MOUNTING DETAIL -



THE TECHNICAL MATERIEL CORP.  
MAMARONECK NEW YORK

TF - 284

1	VLLA-1	
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE	CODE	
1:2		

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY  
OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR  
REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

TF284

**REVISIONS**

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
X1	TERMINAL STYLE CHANGED	6-23-65		Jc		
X2	ELECTRICAL & MECHANICAL SPECS REVISED	12-1-65		Jc		
X3	4-5/16 WAS 4-1/4, 3-11/16 WAS 3-5/8, 5-9/16 WAS 5-1/2 1350VAC WAS 350	2-16-66	X3	Jc		
Ø	ORIGINAL RELEASE FOR PRODUCTION	2-23-66		Jc	Jc	

**-ELECTRICAL SPECIFICATIONS-**

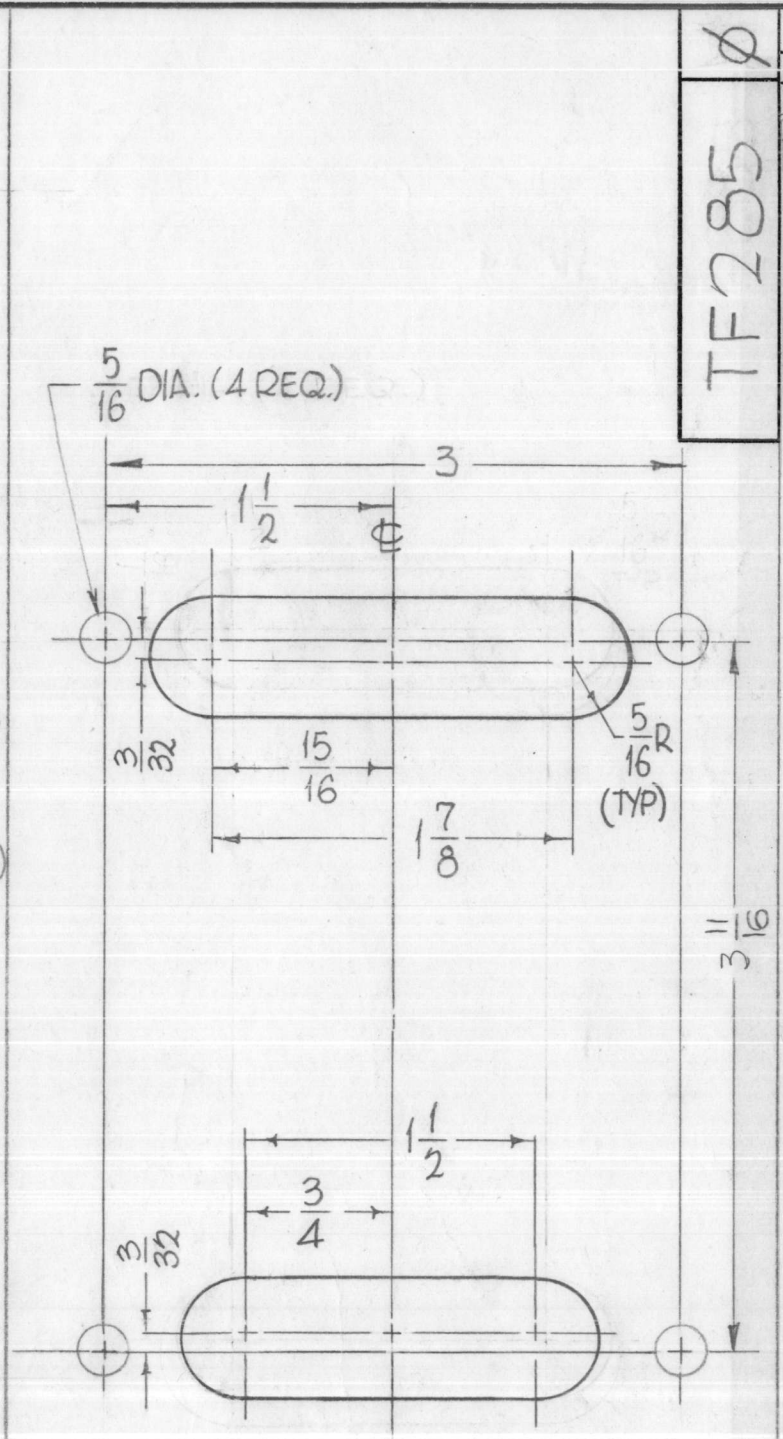
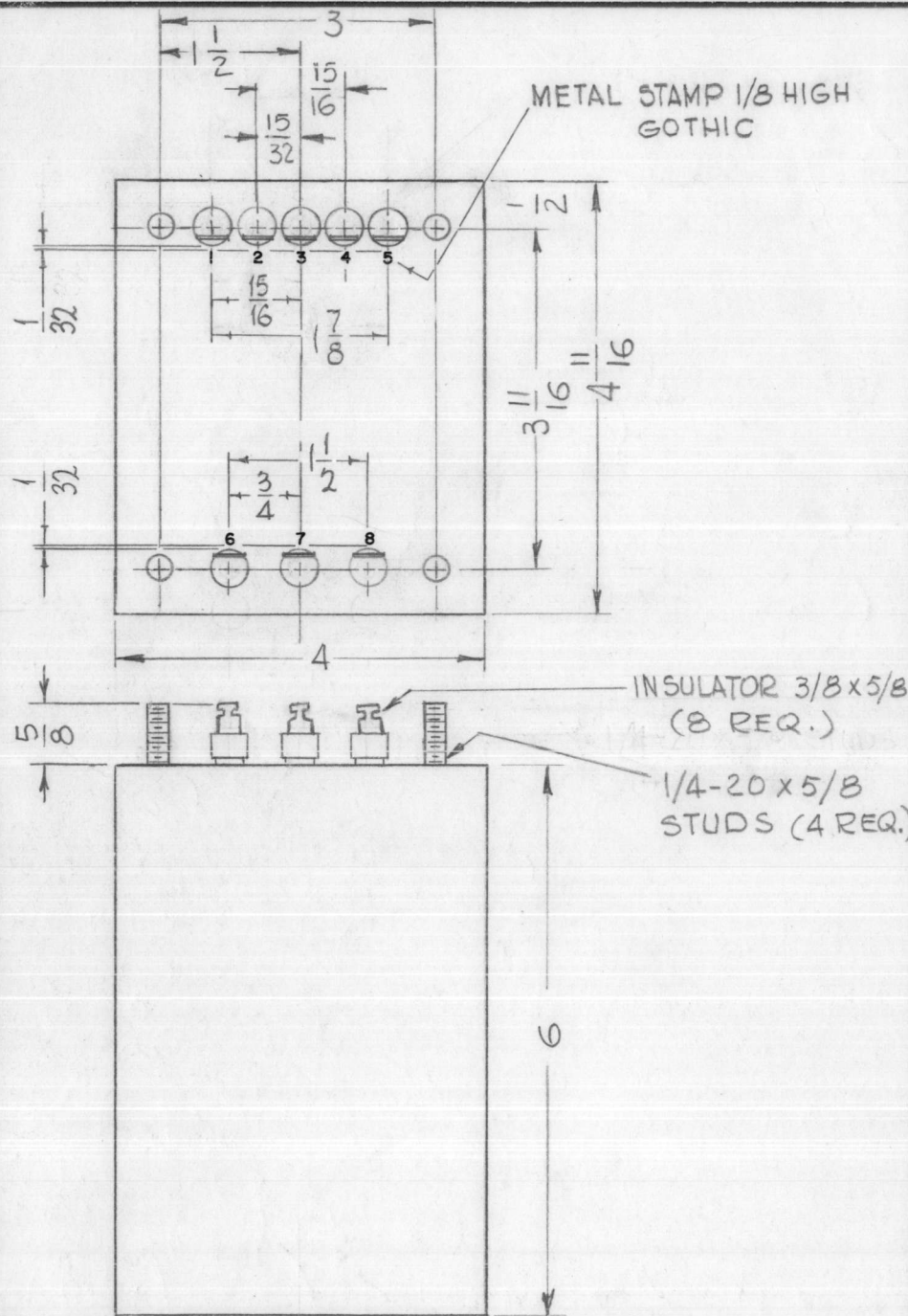
1. TRANSFORMER, POWER
2. COIL DATA: PRIMARY WINDING - TAPPED FOR 190, 208, 230 and 250 VOLTS AT 50/60 CYCLES.

- SECONDARY WINDING -
- A - 300 VDC AT 100 MA INTO FULL WAVE RECTIFIER (CHOKE INPUT)
  - B - 5 VAC AT 2 AMP
  - C - 5 VAC AT 2 AMP
  - D - 500 VDC AT 50 MA INTO FULL WAVE RECTIFIER (CHOKE INPUT)
  - E - 12.6 VAC AT 2.5 AMP
  - F - 6.3 VAC AT 2 AMP

**-MECHANICAL SPECIFICATIONS-**

1. CASE DATA
  - A. HERMETICALLY SEALED
  - B. RECTANGULAR METAL CASE, MIL TYPE
  - C. BODY DIMENSIONS: 4 5/16 LONG MAX., 3 11/16 WIDE MAX., 5 9/16 HIGH MAX.
2. MOUNTING DATA:
  - A. MOUNTING METHOD: STUD
  - B. MOUNTING DIM. - (4) #10-32 TH'D STUDS ON 2 11/16 X 3 5/16 CENTERS 1/2 HIGH
3. TERMINAL DATA:
  - A. (18) TERMINALS
  - B. SOLDER TYPE 5/8 HIGH INSULATED
4. FINISH: SMOOTH GRAY ENAMEL (TMC SPEC S115) EXCEPT TERMINAL END
5. MARKING: METAL STAMP TERMINALS 1 THRU 18 AS SHOWN. MARK BOTTOM AS SHOWN PER TMC SPECIFICATION S727.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
O. POSE				
MATERIAL			LIST OF MATERIAL	
SEE NOTE			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE	
SEE NOTE			TRANSFORMER POWER	
UNLESS OTHERWISE SPECIFIED				
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES				
DRAWN		G.D.L.	DATE	
CHECKED		Jc	DATE 12/1/65	
ELECT. DES.		Jc	DATE	
MECH. DES.		Jc	DATE	
M/L 28721			SHEET	
DECIMALS		TOLERANCES		
.X ± .05		FRACTIONS ± 1/64		
.XX ± .01		ANGLES ± 0° 30'		
.XXX ± .005				
SHEET				
REV. LTR.				

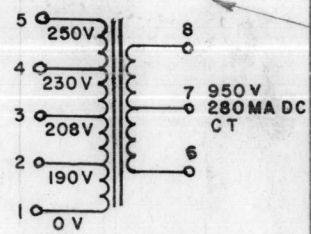


REVISIONS					
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD
X1	TERMINAL STYLE CHANGED	6-23-65		JC	
X2	ELECTRICAL & MECHANICAL SPECS REVISED	11-30-65		JC	
Ø	ORIGINAL RELEASE FOR PRODUCTION	12-2-65			

- ELECTRICAL SPECIFICATIONS-**
1. TRANSFORMER, POWER
  2. COIL DATA: PRIMARY WINDING:  
TAPPED FOR 190, 208, 230 AND 250 VOLTS AT 50/60 CPS
  3. SECONDARY WINDING: 950V CT AT 280MA DC (INTO FULL WAVE BRIDGE, CHOKE INPUT)

- MECHANICAL SPECIFICATIONS-**
1. CASE DATA:
    - A. HERMETICALLY SEALED
    - B. RECTANGULAR METAL CASE, MIL TYPE
    - C. BODY DIMENSIONS - 4 11/16" LONG  
4" WIDE  
6" HIGH
  2. MOUNTING DATA:
    - A. MOUNTING METHOD: STUD
    - B. MOUNTING DIM. - (4) 1/4-20 TH'D STUDS ON 3 X 3 11/16 CENTERS 5/8 HIGH
  3. TERMINAL DATA:
    - A. (8) TERMINALS
    - B. SOLDER TYPE 5/8 HIGH INSULATED
  4. FINISH: SMOOTH GRAY ENAMEL (TMC SPEC S115) EXCEPT TERMINAL END
  5. MARKING: METAL STAMP TERMINALS 1 THRU 8 AS SHOWN  
MARK BOTTOM AS SHOWN PER TMC SPECIFICATION S 727.

THE TECHNICAL MATERIEL CORP.  
MAMARONECK NEW YORK  
TF-285



MARK AS SHOWN  
IN BLACK LETTERS  
1/8 HIGH GOTHIC.  
MARKING PROCESS:  
AS PER TMC SPEC.S727

**NOTES**

Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE	CODE	
1	VLLA-1	
1:2	S401-30 (5348)	

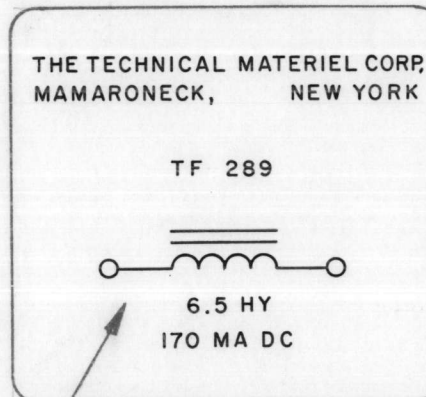
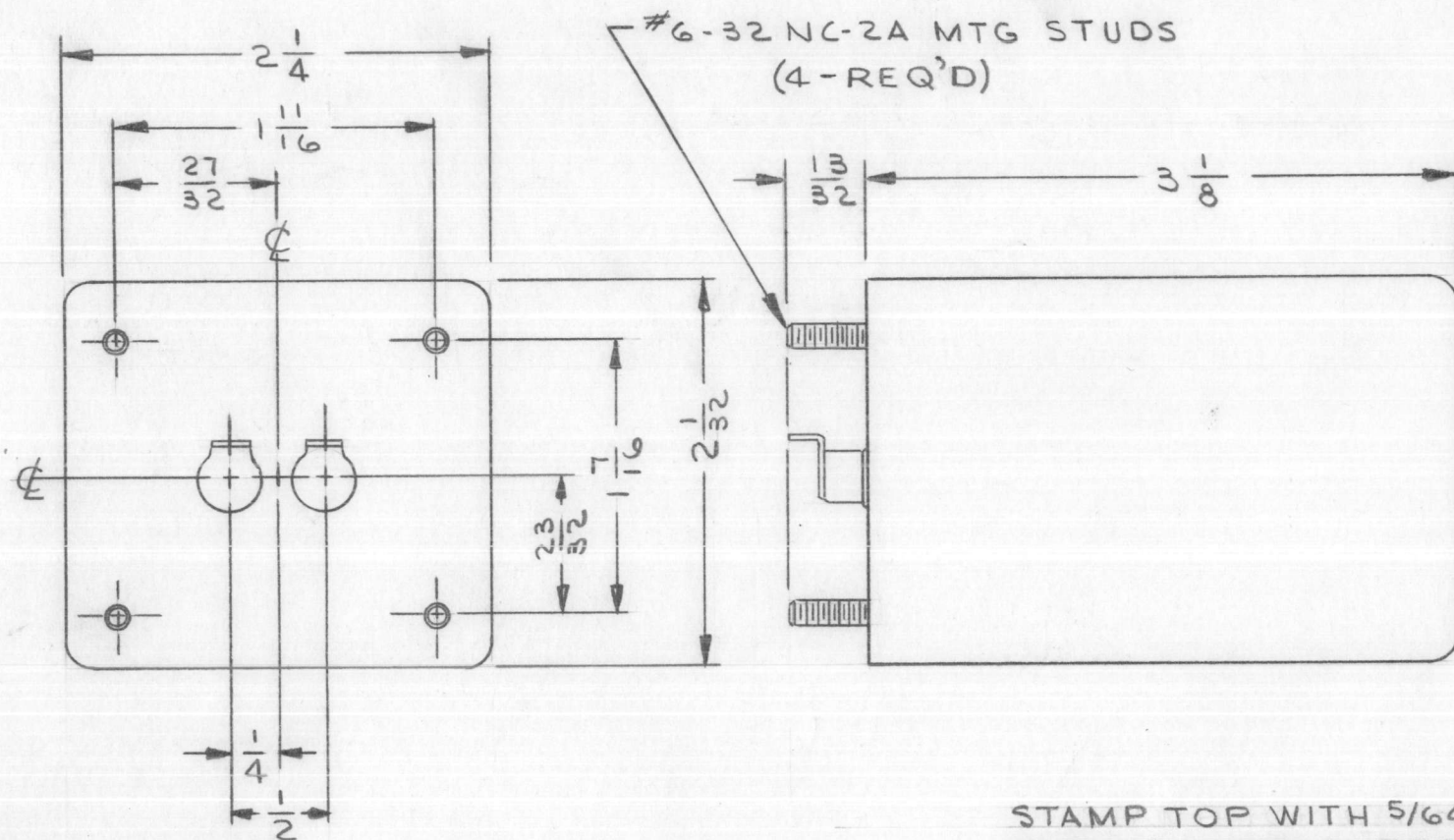
THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
O. POSE LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE TRANSFORMER, POWER	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES			DRAWN G.D.L.	DATE 10-10-63
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005			CHECKED [Signature]	DATE 6-24-65
FRACTIONS ± 1/64 ANGLES ± 0° 30'			ELECT. DES. [Signature]	DATE
TOLERANCES			MECH. DES.	DATE
			FINAL APPROVAL [Signature]	
			DATE 12/2/65	
			SHEET	
			REV. LTR.	

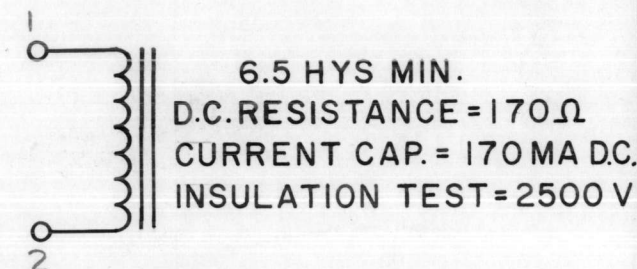
TF 289

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
X	EXPERIMENTAL RELEASE	4-28-64	X	A.M.	@	MS
O	ORIGINAL RELEASE FOR PRODUCTION	4/28/64	O	A.M.		



STAMP TOP WITH 5/64 HIGH  
GOTHIC CHARACTERS IN BLK  
INK AS SHOWN.



NOTE:-

FILTER CHOKE TO BE MANUFACTURED IN ACCORDANCE TO SPEC. MIL-T-27A, EXCEPT QUALIFICATION TESTING & MIL-T-27A MARKINGS ARE NOT REQUIRED.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE FILTER CHOKE	
S-115 T.M.C. GRAY				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		DRAWN J. LESHINSKI	DATE 4/27/64	FINAL APPROVAL DATE 4/28/64
		CHECKED @	DATE 4/28/64	DATE 4/28/64
		ELECT. DES. MS	DATE 4-28-64	DATE 4-28-64
		MECH. DES. MS	DATE 4-28-64	DATE 4-28-64
		SHEET		REV. LTR.

Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
1	GPR-92	
SCALE	CODE	ASS'Y. NO.
1:1	C	S401-30
THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.		

NOTES



5

4

3

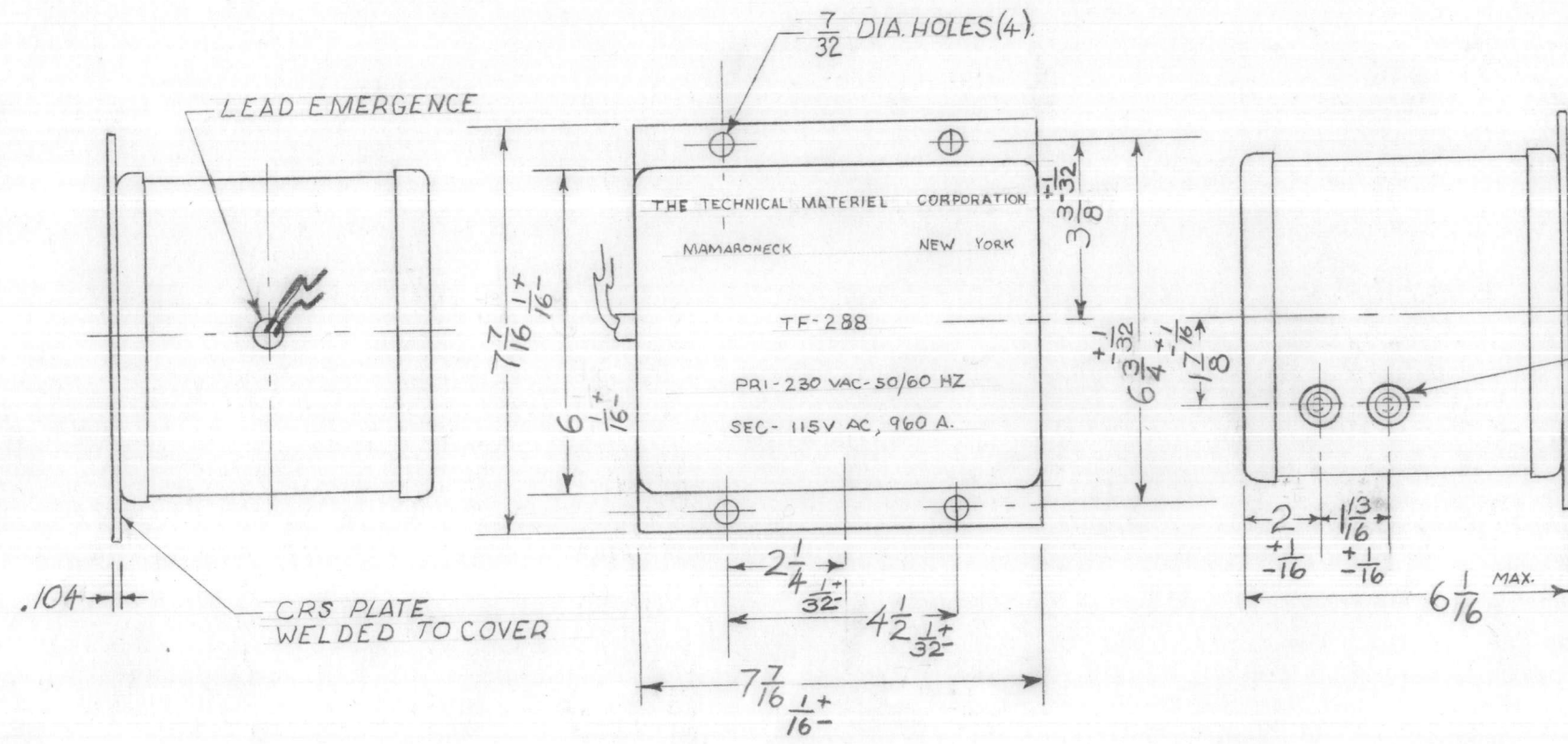
2

1

REVISIONS

SYM ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
O		ORIGINAL REL. FOR PROD.	5-16-64		SRG	AA	RDC
A		TFZ 88 PICT. CHANGED COMPLETELY TO CONFORM WITH BTC-5647(MFG)	1-22-69	19203	GE	JD	FB

TF-288



**SPECIFICATIONS:**

**MECHANICAL~**  
CASE - HERMETICALLY SEALED IN RECTANGULAR STEEL CASE MILTYPE YY.  
FINISH-S115, TMC SMOOTH GREY ENAMEL  
STAMPING - SCHEMATIC AND LETTERING TO BE STAMPED IN BLACK ON TOP OF TRANSF. AS SHOWN

**ELECTRICAL~**  
230 VAC TO 115 VAC, 960 VA

TRANSFORMER TO BE MANUFACTURED IN ACCORDANCE WITH MIL SPEC. T-27-A EXCEPT THAT MIL T-27-A SHALL NOT APPEAR ON THE TRANSFORMER AND QUALIFICATION TESTING IS NOT REQUIRED.

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
	F BUDETTI		LIST OF MATERIAL	
FINAL APPROVAL		RDC	DATE 5/16/64	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK
MECH. DES.		ASC	DATE 5/8/64	
ELECT. DES.		FB LB	DATE	
CHECKED		AA	DATE	
DRAWN		SRG GE	DATE 12-3-63	TRANSFORMER POWER
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	TF-288	A	
SCALE		SHEET OF		1

QTY / UNIT	MODEL USED ON	ASS'Y NO.
1	GPT-10K	
APPLICATION		
CODE	S401-30(5647)	

**NOTICE TO PERSONS RECEIVING THIS DRAWING**  
THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.

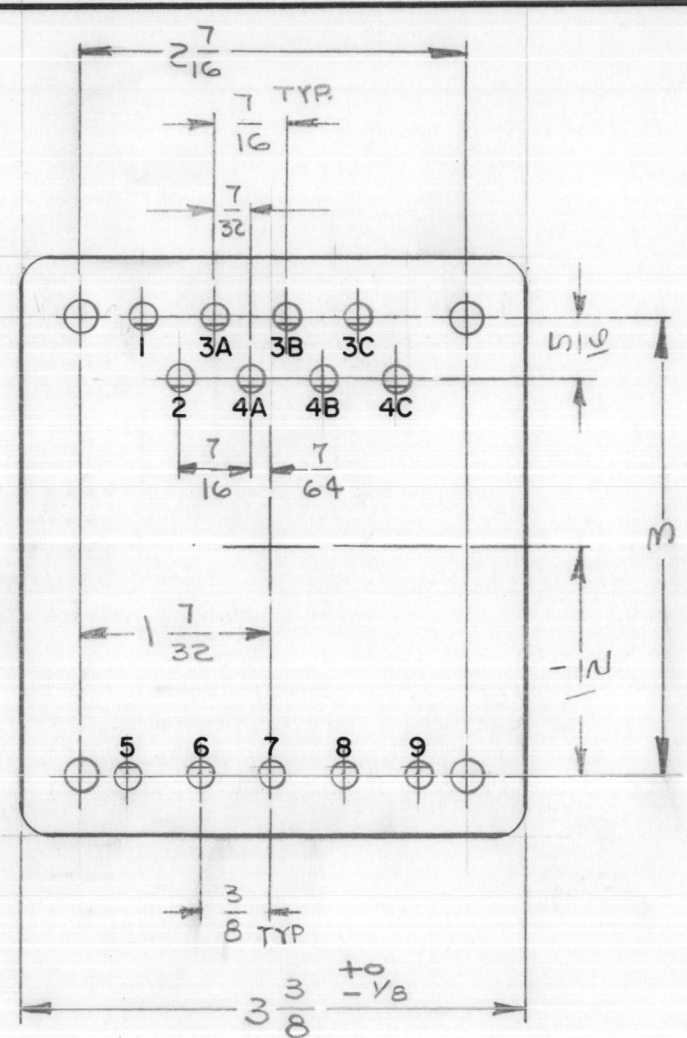
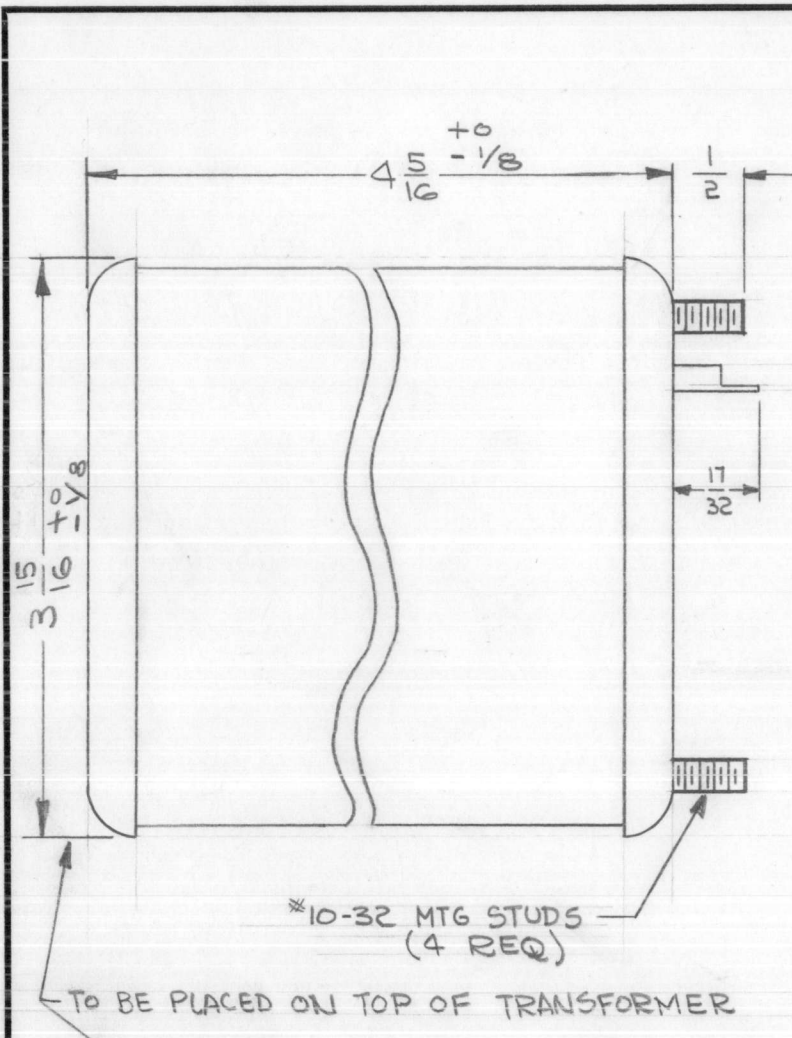
5

4

3

2

1



TF 290

REVISIONS						
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
Ø	ORIGINAL RELEASE FOR PRODUCTION	3-29-65	AA	SP	J.M.	N.L.

**CASE DATA:**  
 A. FULLY ENCLOSED  
 B. GRAY  
 C. HERMETICALLY SEALED  
 D. MATERIAL STEEL, HOT TINNED DIPPED

**PRIMARY WINDINGS:**  
 A. 105V, 115V, 125V  
 B. 50/60 CPS  
 C. SINGLE

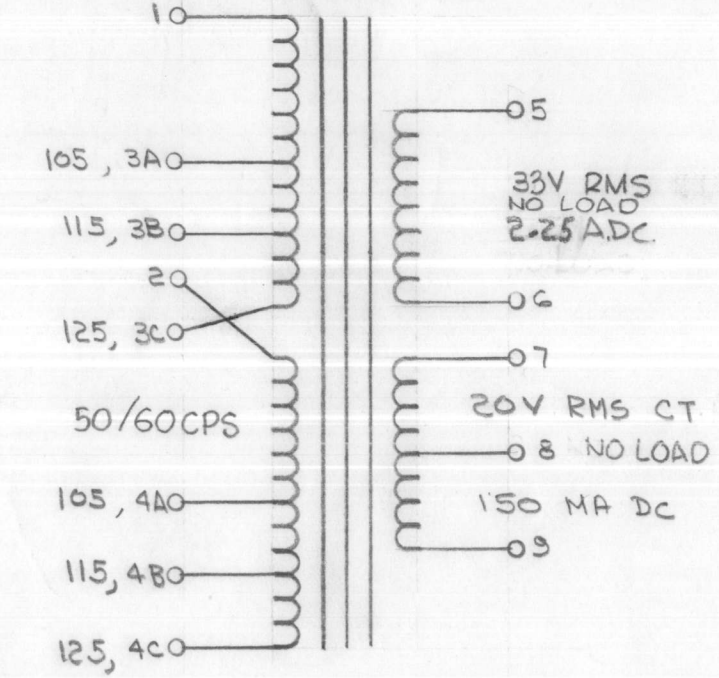
**SECONDARY WINDINGS:**  
 A. 33V RMS, NO LOAD, 20V RMS NO LOAD  
 B. 225A DC, 150MA DC

**TERMINAL DATA:**  
 A. QUANTITY 13  
 B. SOLDER LUG

**MARKING:**  
 A. SCHEMATIC TO BE PLACED ON TOP OF TRANSFORMER.  
 B. MARKING METHOD AS PER TMC SPEC S727.  
 C. LETTER AND NUMERALS TO BE GOTHIC, ALL MARKING TO BE IN BLACK.

THE TECHNICAL MATERIEL CORPORATION  
 MAMARONECK NEW YORK

TF 290

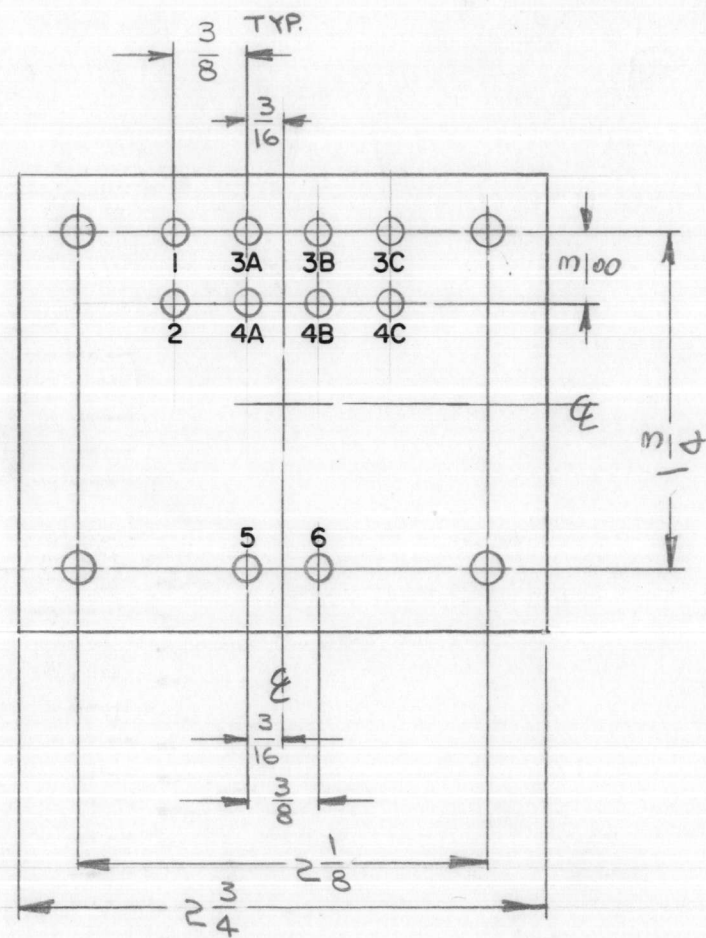
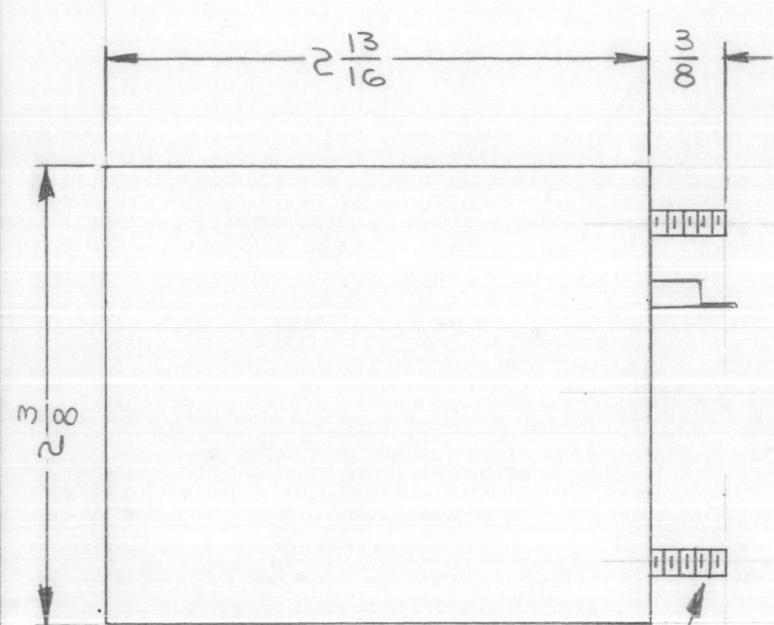


**NOTES**

1	RTPA-1	
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
4	C 3401-30 (6261)	

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

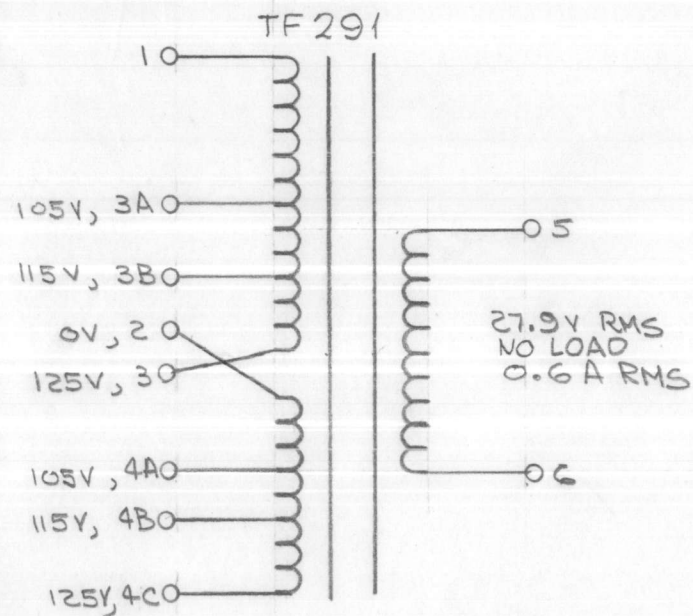
REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
<b>EATON LIST OF MATERIAL</b>				
MATERIAL			<b>THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK</b>	
FINISH			TITLE	
GRAY			TRANSFORMER, POWER	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		DRAWN: <i>G. Sencen</i> CHECKED: <i>JCP</i> ELECT. DES.: <i>J.P. Sencen</i> MECH. DES.:	DATE: 3-29-65 DATE: 3/29/65 DATE: 4/5/65	FINAL APPROVAL: <i>M. Sencen</i> DATE: 4/5/65
DECIMALS	TOLERANCES	FRACTIONS	SHEET	
.X ± .05 .XX ± .01 .XXX ± .005		± 1/32 ANGLES ± 0° 30'	TF 290	
			REV. LTR.	Ø



\*6-32 MTG STUDS  
(4 REQ)

TO BE PLACED ON TOP OF TRANSFORMER.

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK



NOTES

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

TF291

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
Ø	ORIGINAL RELEASE FOR PRODUCTION	3/29/65	M	BJS	J.M.	NC

CASE DATA:

- A. FULLY ENCLOSED
- B. GRAY
- C. HERMETICALLY SEALED
- D. MATERIAL STEEL, HOT TINNED DIPPED

PRIMARY WINDINGS:

- A. 105V, 115V, 125V
- B. 50/60 CPS
- C. SINGLE

SECONDARY WINDING:

- A. 27.9V RMS, NO LOAD
- B. 0.6A

TERMINAL DATA:

- A. QUANTITY 10
- B. SOLDER LUG

MARKING:

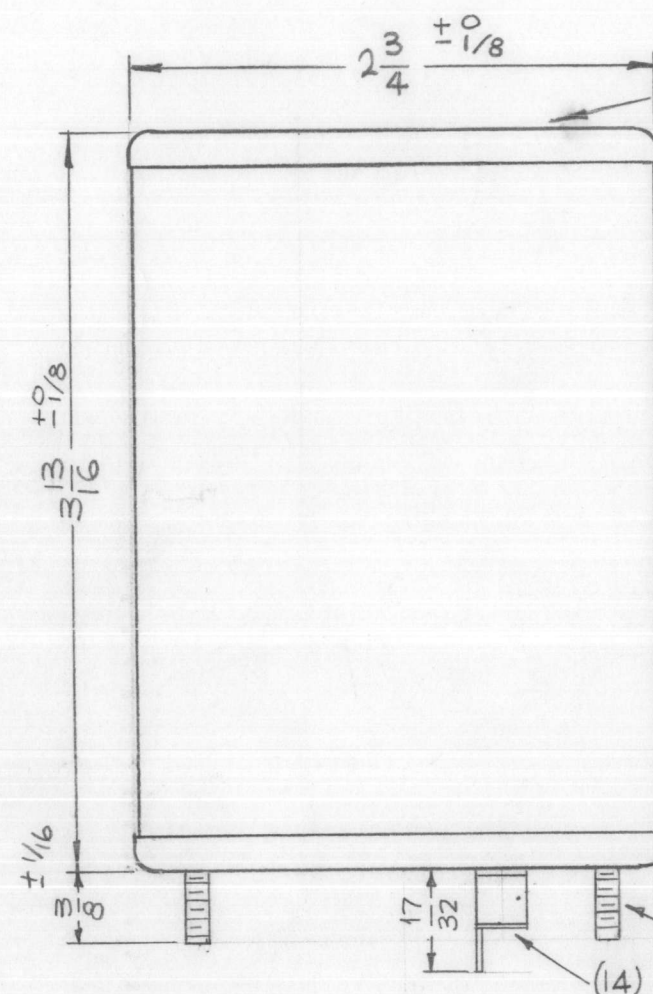
- A. SCHEMATIC TO BE PLACED ON TOP OF TRANSFORMER.
- B. MARKING METHOD AS PER TMC SPEC. S727.
- C. LETTERS AND NUMERALS TO BE GOTHIC, ALL MARKING TO BE IN BLACK.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
<b>EATON LIST OF MATERIAL</b>				
MATERIAL			<b>THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK</b>	
FINISH			TITLE <b>TRANSFORMER, POWER</b>	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES				
DRAWN <i>E. Jencen</i>		DATE 3-29-65	FINAL APPROVAL <i>[Signature]</i>	
CHECKED <i>[Signature]</i>		DATE 3/29/65	DATE 4/5/65	
ELECT. DES. <i>[Signature]</i>		DATE 4/5/65	TF291	
MECH. DES.		DATE	SHEET	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005		FRACTIONS ± 1/32 ANGLES ± 0° 30'		REV. LTR.

REVISIONS

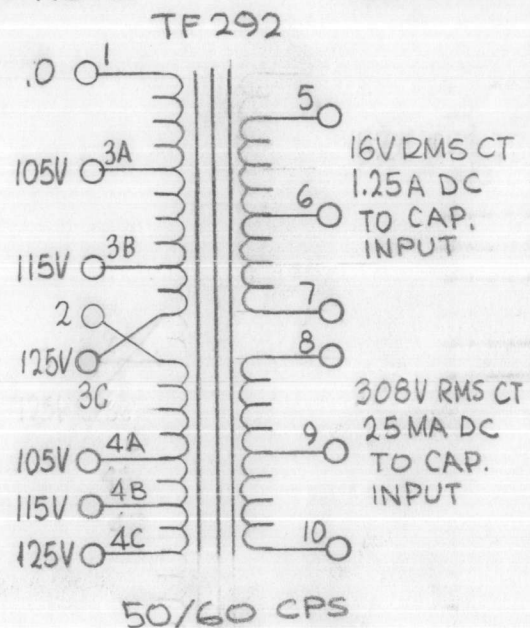
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
X	EXP. RELEASE	2-25-65	X	SRG	J.M	NL
Ø	ORIGINAL RELEASE FOR PRODUCTION	3-11-65	-M-	SRG	J.M	

TF 292



TO BE PLACED ON TOP OF TRANSFORMER

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK



CASE DATA:

- A. TOLERANCE ± 1/32
- B. FULLY ENCLOSED
- C. GRAY
- D. HERMETICALLY SEALED
- E. MATERIAL: STEEL HOT TIN DIPPED

PRIMARY WINDINGS:

- A. 105V, 115V, 125V
- B. 50/60 CYCLES

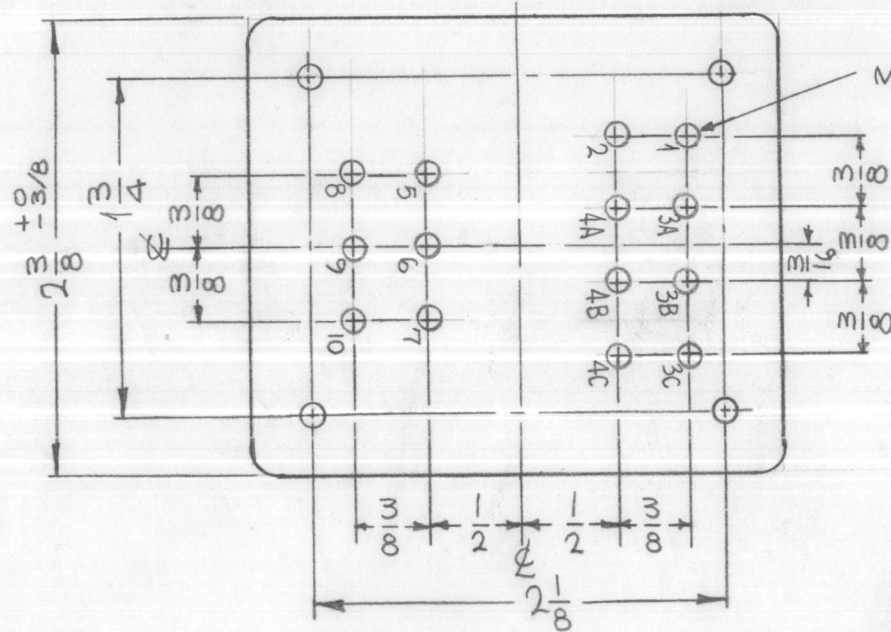
SECONDARY WINDINGS: (NO LOAD)

- A. 308 RMS CENTER TAPPED, 16V RMS
- B. 25 MA; 1.25A DC

TERMINAL DATA:

- A. QUANTITY 14
- B. SOLDER LUG

MARKING: SCHEMATIC TO BE STAMPED IN BLACK, LETTERING GOTHIC, AS PER TMC SPEC. S-727 LOCATED AS SHOWN.



NOTES

1	RTIA-1	
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE 1:1	CODE C	S401-30 (6240B)

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
<b>EATON LIST OF MATERIAL</b>				
MATERIAL		SEE SPECS		
FINISH		SEE SPECS		
		<b>THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK</b>		
		<b>TRANSFORMER, POWER</b>		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		DRAWN SRG	DATE 3/11/65	FINAL APPROVAL [Signature]
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005		CHECKED [Signature]	DATE 3/12/65	DATE 3/23/65
TOLERANCES ± 1/64 ANGLES ± 0° 30'		ELECT. DES. [Signature]	DATE 3/12/65	
		MECH. DES.	DATE	
				TF 292
SHEET				REV. LTR.

# STANDARD DRAWING

TF 293

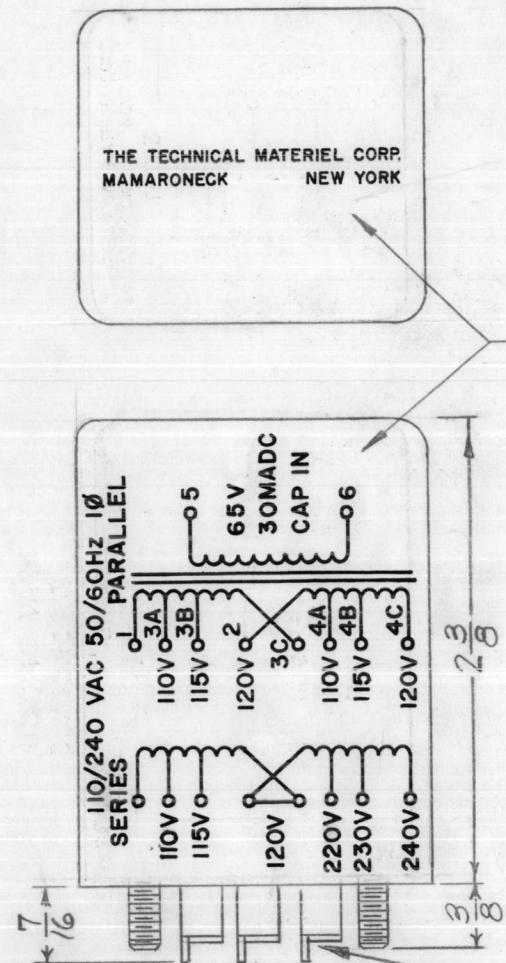
## REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
Ø	ORIGINAL RELEASE FOR PRODUCTION	12/7/66	Ø	CV		

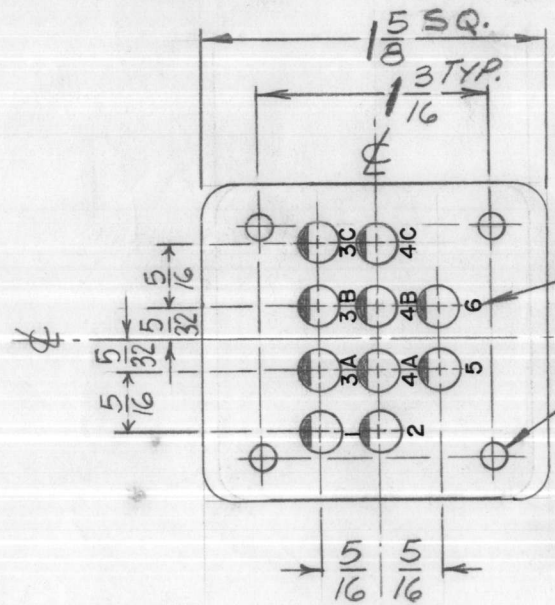
THE TECHNICAL MATERIEL CORP.  
MAMARONECK NEW YORK

*MARK TOP AS SHOWN  
PER TMC SPEC S727*

MARK AS SHOWN  
PER TMC SPEC S727  
BLACK GOTHIC LETTERING  
& LINEWORK



*7/32 DIA.*



*METAL STAMP TERMINALS  
AS SHOWN*

*6-32 x 3/8 LG. STUDS  
4 REQ'D.*

### —ELECTRICAL SPECIFICATIONS—

TRANSFORMER, POWER, ISOLATION & STEP-DOWN  
**COIL DATA:**  
 PRIMARY WINDING: 50/60CPS, 1 PHASE  
 SECONDARY VOLTAGE: 110, 115, 120/220, 230, 240  
 SECONDARY WINDING: 65 V, 20 MADC CAP IN

### —MECHANICAL SPECIFICATIONS—

**CASE DATA:** HERMETICALLY SEALED  
 CR STEEL  
 BODY DIMENSIONS- 1 5/8" LENGTH & WIDTH  
 2 3/8" HIGH

**MOUNTING DATA:**  
 MOUNTING METHOD: STUD  
 MOUNTING DIMENSIONS: (4) 6-32 THD STUDS ON 1 3/16  
 CENTERS 3/8 HIGH

**TERMINAL DATA:** (10) TERMINALS  
 SOLDER LUG TYPE 7/16 HIGH

**FINISH:** SMOOTH GRAY ENAMEL (TMC SPEC S115) EXCEPT TERMINAL END  
**MARKING:** METAL STAMP TERMINALS 1 THRU 10 AS SHOWN.  
 MARK TOP AS SHOWN PER TMC SPEC S727.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
--------	------	-------------	-------------	--------

### LIST OF MATERIAL

MATERIAL	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
FINISH	TITLE TRANSFORMER, POWER			

Q'TY./UNIT	ARCA-1	ASS'Y. NO.
SCALE	MODEL USED ON	
<i>1/16</i>	CODE	S401-30 (6242)

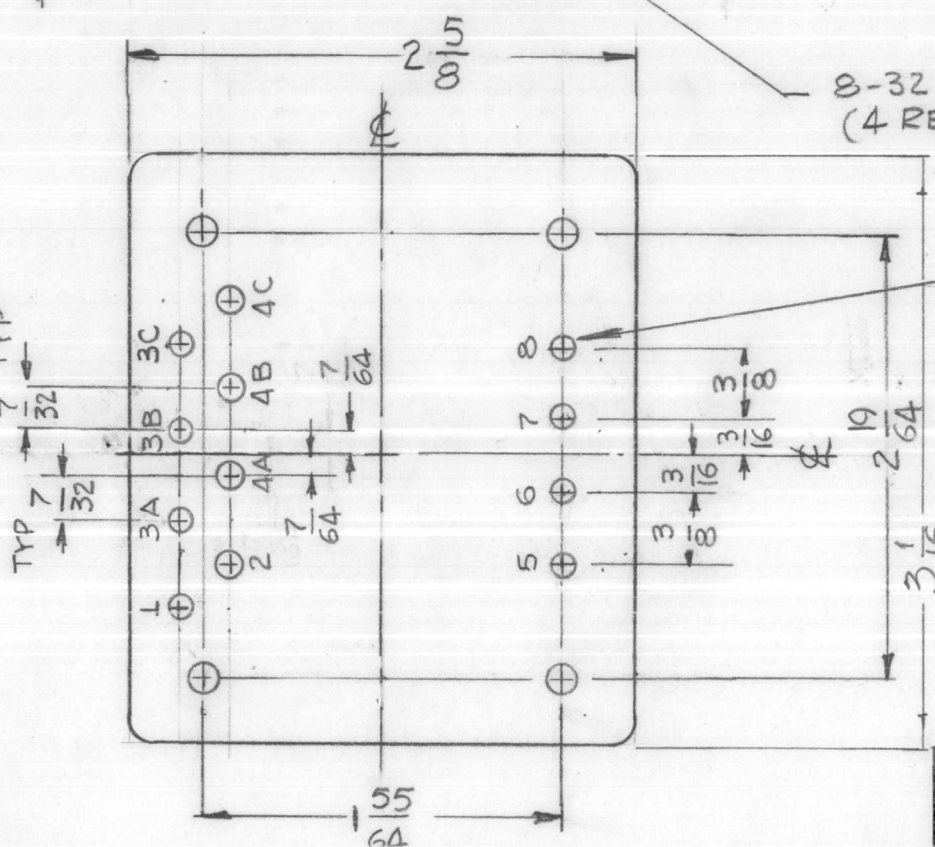
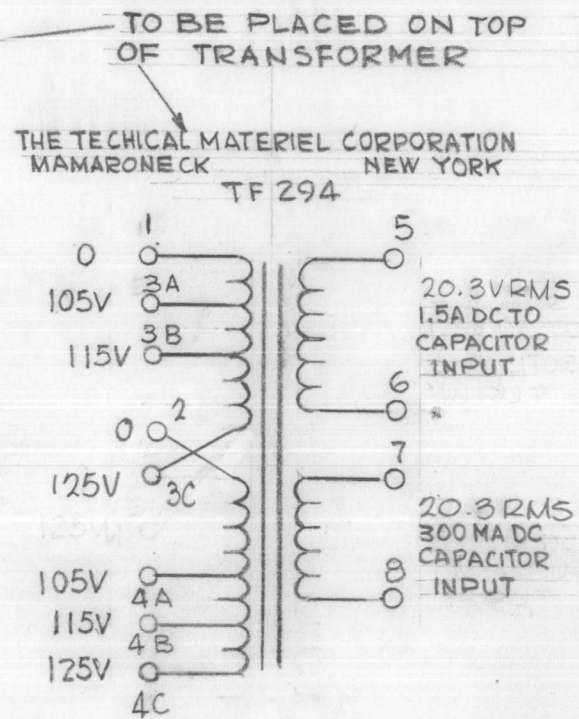
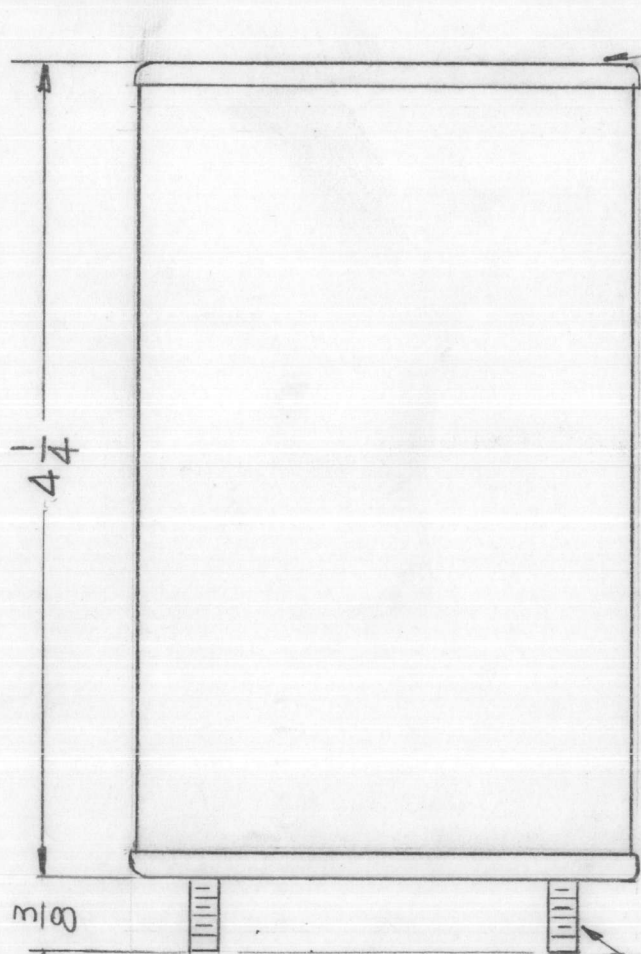
THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS ARE IN INCHES AND INCLUDE  
 CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS	TOLERANCES	FRACTIONS
.X ± .05		± 1/64
.XX ± .01		ANGLES
.XXX ± .005		± 0° 30'

DRAWN <i>H. AUSTIN</i>	DATE 3-25-66	FINAL APPROVAL	DATE 12/6/66
CHECKED <i>JHR</i>	DATE 10/27/66	<i>TF 293</i>	Ø
ELECT. DES.	DATE 11/2/66		
MECH. DES.	DATE	SHEET	REV. LTR.

### NOTES



TF 294

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
X	EXPERIMENTAL RELEASE	2-26-65	M	GDL	J.M	NL
Ø	ORIGINAL RELEASE FOR PRODUCTION	3-11-65	M	GDL	J.M	

- CASE DATA:
- A. HERMETICALLY SEALED
  - B. FULLY ENCLOSED
  - C. GRAY
  - D. MATERIAL: STEEL HOT TIN DIPPED

- PRIMARY WINDINGS:
- A. 105, 115, 125V
  - B. 50/60 CPS
  - C. 1

- SECONDARY WINDING
- A. 20.3V RMS; 20.3V RMS
  - B. 1.5A DC, 300 MADC

- TERMINAL DATA:
- A. QUANTITY 12
  - B. SOLDER LUG

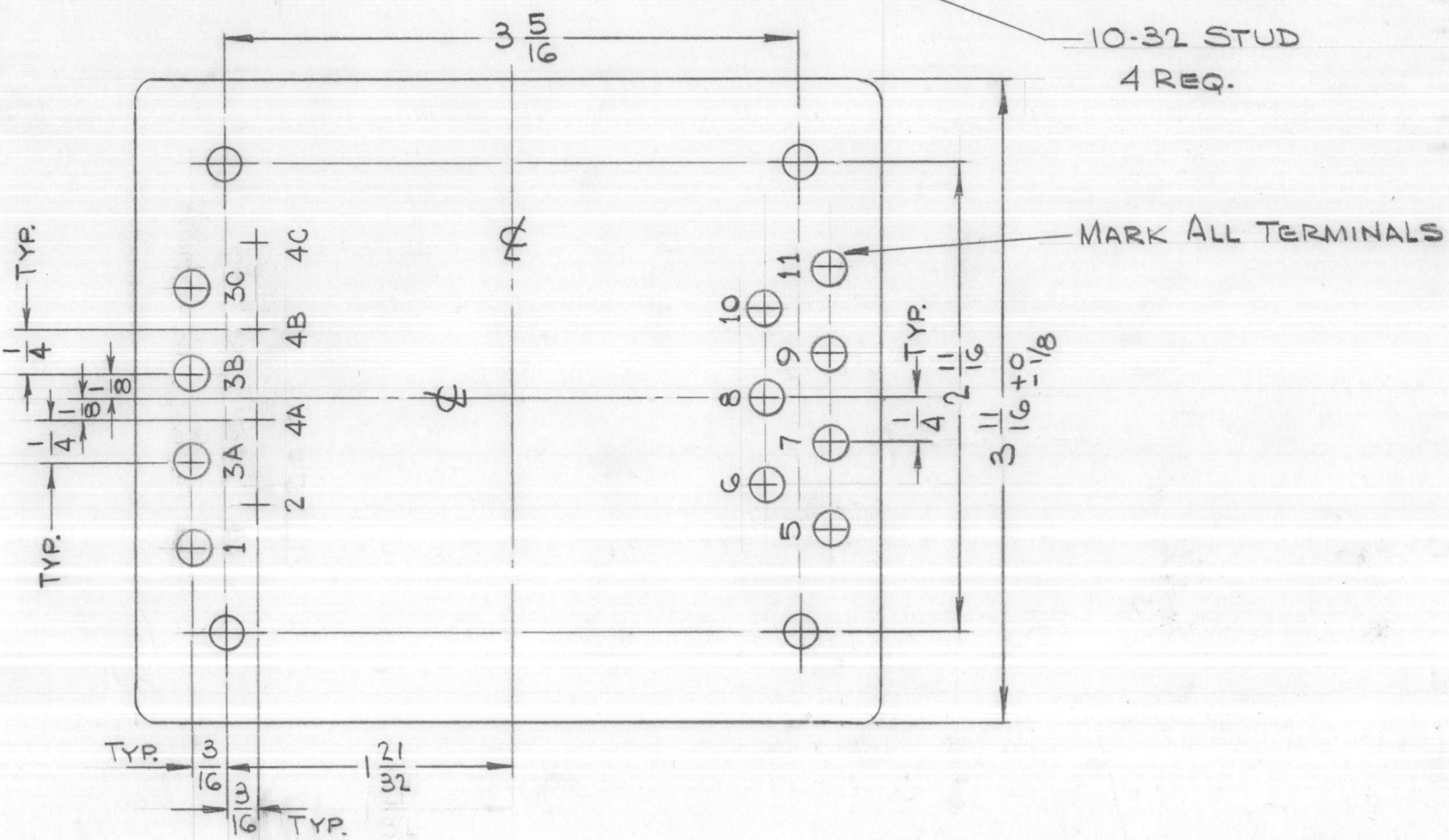
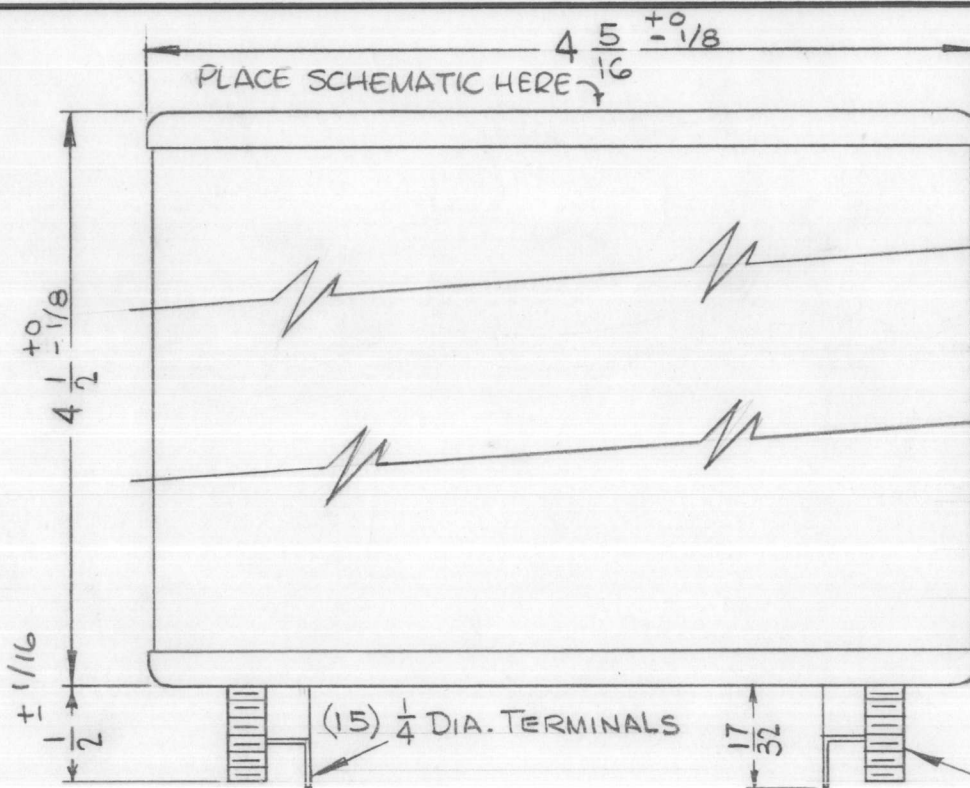
MARKING: SCHEMATIC TO BE STAMPED IN BLACK, LETTERING GOTHIC AS PER TMC SPEC. S-727 LOCATED AS SHOWN.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
<b>EATON LIST OF MATERIAL</b>				
MATERIAL		SEE SPEC		
FINISH		SEE SPEC		
		<b>THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK</b>		
		<b>TRANSFORMER, POWER</b>		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		DRAWN G.D.L. CHECKED JCB ELECT. DES. JCB MECH. DES.	DATE 2-26-65 DATE 3/11/65 DATE 3/12/65	FINAL APPROVAL [Signature] DATE 3/23/65 <b>TF 294</b>
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	TOLERANCES	FRACTIONS ± 1/64 ANGLES ± 0° 30'	SHEET	REV. LTR. Ø

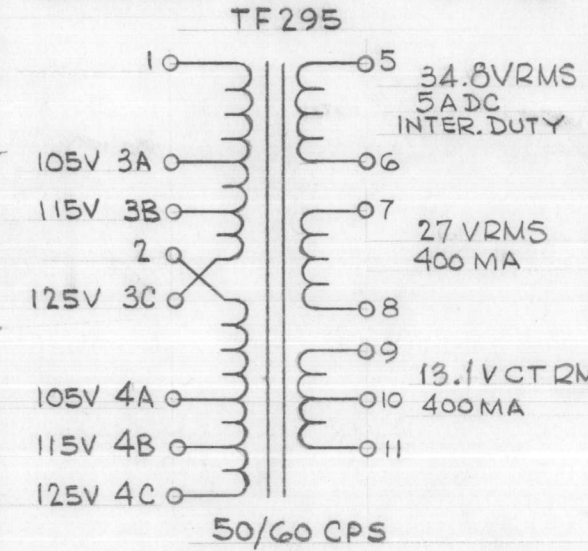
NOTES

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
1	RTPA-1	
SCALE 1:1	CODE C	5401-30 (G241B)



THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK



TF 295

TO BE PLACED ON TOP OF TRANSFORMER

- CASE DATA:
- A. FULLY ENCLOSED
  - B. GRAY
  - C. HERMETICALLY SEALED
  - D. MATERIAL: STEEL HOT TIN DIPPED

- PRIMARY WINDINGS:
- A. 105, 115, 1.25V
  - B. 50/60 CPS
  - C. SINGLE

- SECONDARY WINDING (NO LOAD)
- A. 34.8V, 27V, 13.1V
  - B. 5A; 400MA; 400MA
  - C. CENTER TAPPED

- TERMINAL DATA:
- A. QUANTITY 15
  - B. SOLDER LUG

MARKING: SCHEMATIC TO BE STAMPED IN BLACK, LETTERING GOTHIC, AS PER TMC SPEC. S727 LOCATED AS SHOWN.

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
X	EXPERIMENTAL RELEASE	2/26/65		HLA	J.M	NL
Ø	ORIGINAL RELEASE FOR PRODUCTION	3/11/65		HLA	J.M	

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
EATON LIST OF MATERIAL				

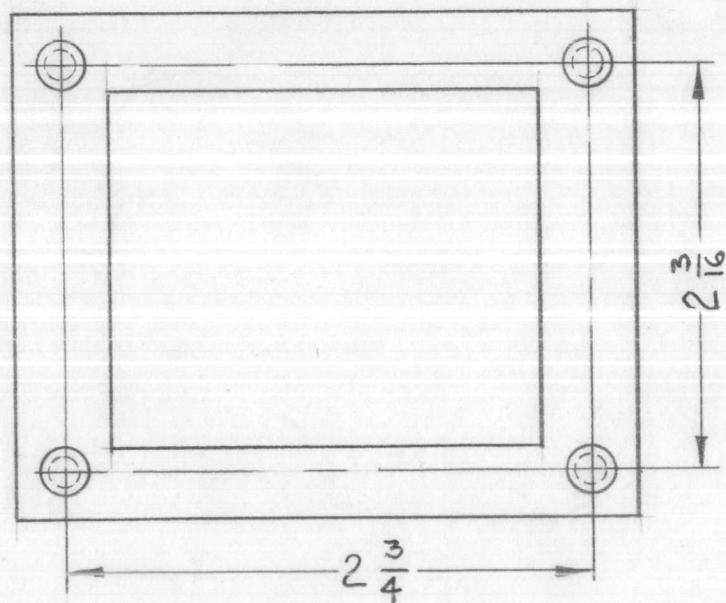
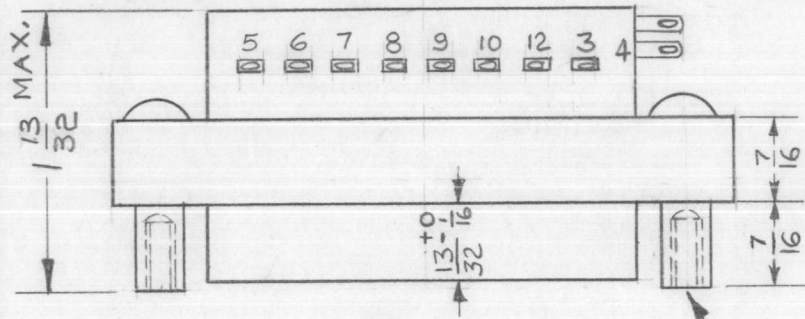
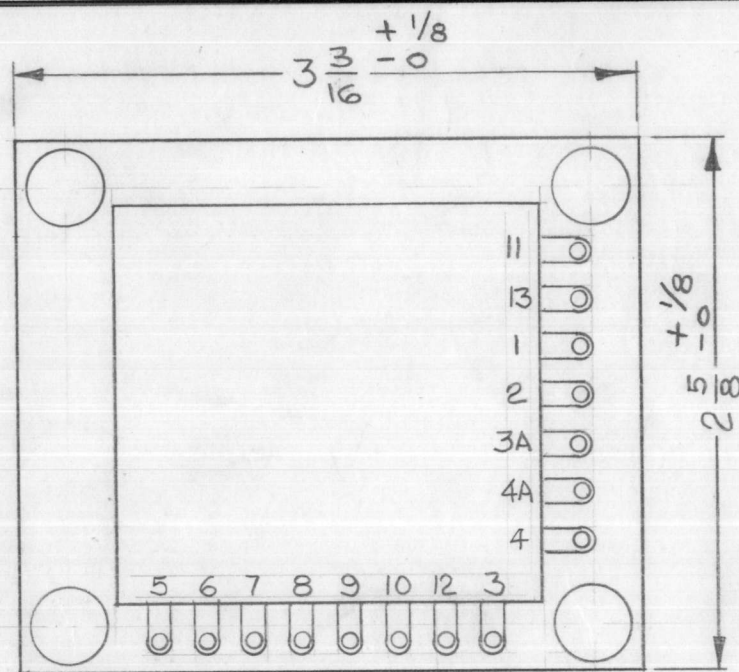
MATERIAL	SEE SPEC	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		
FINISH	SEE SPEC	TITLE TRANSFORMER, POWER		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		DRAWN H. AUSTIN	DATE 2-26-65	FINAL APPROVAL <i>[Signature]</i>	DATE 2/26/65
		CHECKED <i>[Signature]</i>	DATE 3/11/65		
		ELECT. DES. <i>[Signature]</i>	DATE 3/11/65	TF 295	
		MECH. DES.	DATE	Ø	

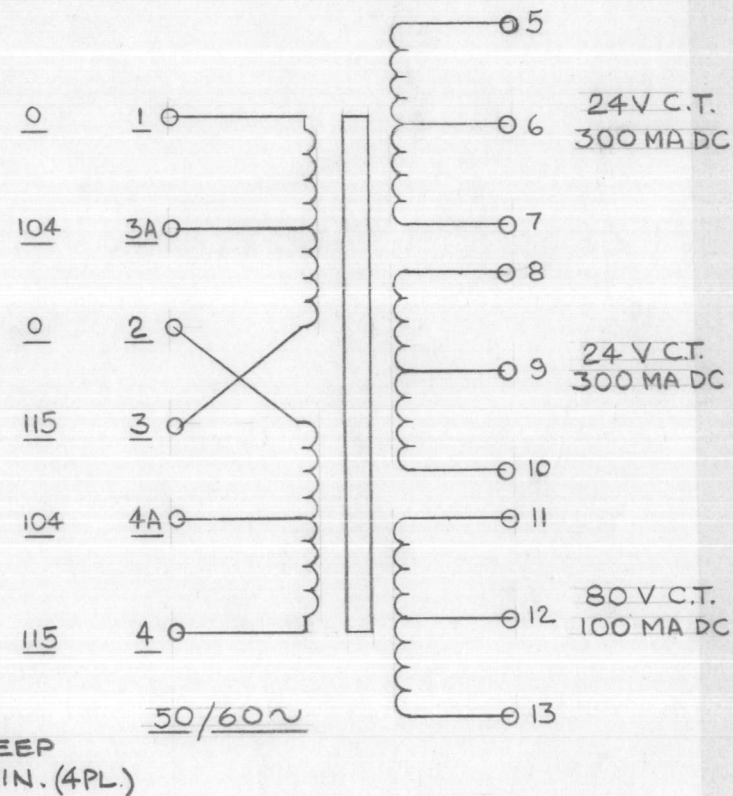
Q'TY./UNIT	RTTD-1	A3703
SCALE	MODEL USED ON	ASS'Y. NO.
1:1	C	S401-30 (5492)

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

NOTES



**NOTES**



B  
TF298

**REVISIONS**

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
X	EXPERIMENTAL RELEASE	6.26.64		WB		
Ø	ORIGINAL RELEASE FOR PRODUCTION	7/1/64	Ø	A.M.		
A	DIMS 3 3/16 ± WAS 3-1/4, TOL. ADDED TO 2-5/8 1-13/32 WAS 1-7/16	8-6-64	12029	J. Linn	WB	TAC
B	TAPPING NOTE ADDED	11.3.64	12843	WB	J. Linn	TAC

1. TRANSFORMER, POWER
2. CASE DATA: OPEN FRAME
3. FINISH: BLACK EPOXY DIP
4. PRIMARY WINDING INPUT DATA: 104-115V/208-230 VAC
5. SECONDARY WINDING DATA:
  - A. VOLTAGE & CURRENT:
    - # 1 & 2 : 24 V AT 300MA CENTER TAP
    - # 3 : 80 V AT 100MA CENTER TAP
6. TERMINAL DATA:
  - A. QUANTITY: 15
  - B. TYPE: SOLDER LUG

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
<b>AALTONEN LIST OF MATERIAL</b>				
MATERIAL			<b>THE TECHNICAL MATERIEL CORP.</b> MAMARONECK, NEW YORK	
FINISH			TITLE <b>TRANSFORMER, POWER</b> STR, STE, SMR, SME	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		DRAWN	DATE	FINAL APPROVAL
		WB	6.25.64	TAC
		CHECKED	DATE	
		@	7-1-64	
		ELECT. DES.	DATE	
		TAC	7/1/64	
		MECH. DES.	DATE	
SHEET				TF298
TOLERANCES				B
DECIMALS		FRACTIONS		
.X ± .05		± 1/64		
.XX ± .01		ANGLES		
.XXX ± .005		± 0° 30'		
REV. LTR.				

Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE	CODE	
#	C	5401-30

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.



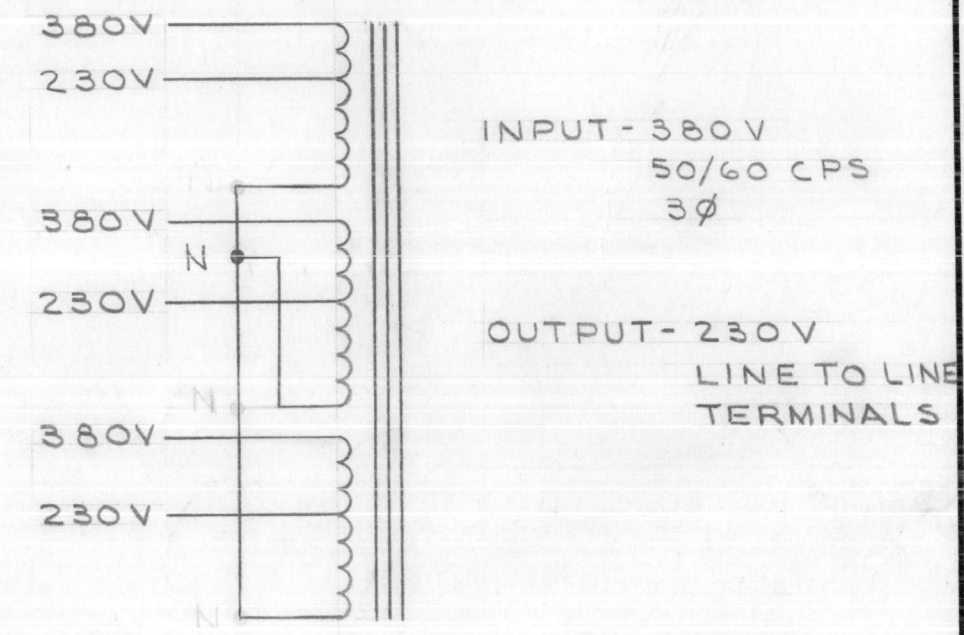
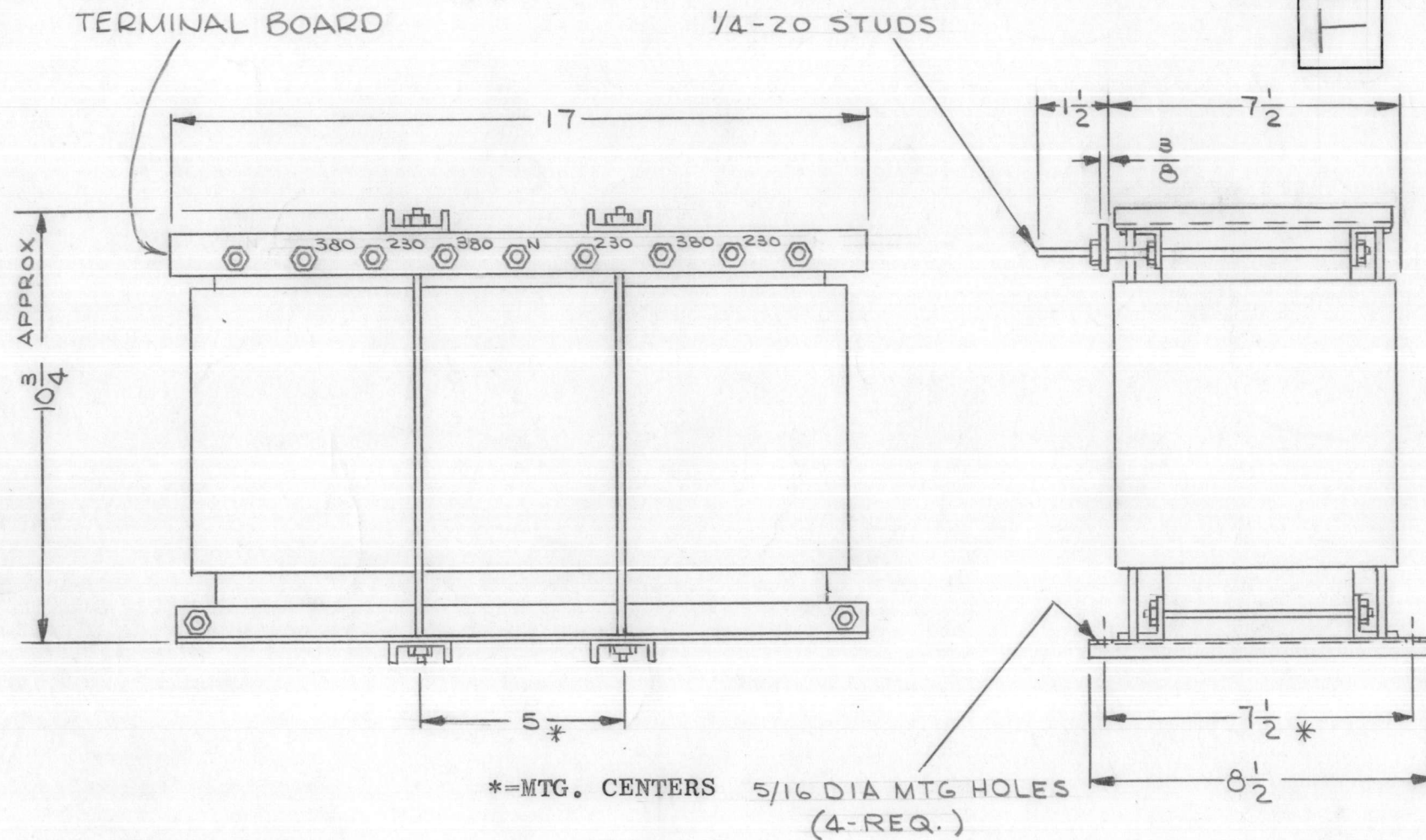
TF 299

REVISIONS

SYM	DESCRIPTION	DATE	F.M.N. NO.	DRAFT	CHKD	APPD
X1	REMOVED TWO NEUTRAL CONNECTIONS	2-17-67		L.A.K.		
Ø	ORIGINAL RELEASE FOR PRODUCTION	2-27-67		L.A.K.		

THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK NEW YORK

TF 299



SPECIFICATIONS:

WINDING DATA:

- INPUT: 380V, 50/60 CPS, 3PH
- CURRENT RATING, 40A-RMS EACH PHASE
- TAPS- EACH WINDING TAPPED AT 200V.
- BREAKDOWN TEST VOLTAGE 2000V AC.
- CASE- OPEN FRAME.
- FINISH- S115 SMOOTH GREY ENAMEL EXCEPT TERMINAL BOARD & TERMINALS.

7. TERMINAL BOARD: BLACK PHENOLIC 3/8" THICK.

NOTE: MFG- IN ACCORDANCE WITH/MIL-T-27A EXCEPT MIL-7-27A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

NOTES

1	GPT-40KE	
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
NONE	C	S401-30(6382)
THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.		

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
F. BUDETTI LIST OF MATERIAL				
MATERIAL		SEE SPECS		
FINISH		SEE SPECS		
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		
		TITLE TRANSFORMER, POWER, FIXED		
DRAWN	J.L.	DATE	7/29/65	FINAL APPROVAL
CHECKED	<i>[Signature]</i>	DATE		<i>[Signature]</i>
ELECT. DES.	<i>[Signature]</i>	DATE		TF 299
MECH. DES.		DATE		Ø
				REV. LTR.