

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

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

RELEASED

TF-100

CASE LESS STUDS & TERMINALS - 2 1/2" HIGH

OUTPUT TRANSFORMER

A. ELECTRICAL SPECIFICATIONS:

Primary impedance 5000 ohms; D.C. current 35 MA. average.
 Secondary impedance 600 ohms, tapped at 8 ohms.
 Frequency response 300 to 5000 c.p.s. , plus or minus 3 db from 1000 c.p.s.
 Power output handling capacity 5 watts.

B. MECHANICAL SPECIFICATIONS:

Case and mounting shall be Case Symbol FB, MIL-T-27.
 Terminal; Solder lugs and ceramic bushings shall be used, located on mounting stud end.
 Lettering; TMC Part Number *, ~~FPS Name and Part Number shall appear on opposite end from mounting studs.~~

Schematic diagram shall appear side of unit and be readable with mounting stud side facing down.

Terminal shall be lettered 1 to 5 as shown.

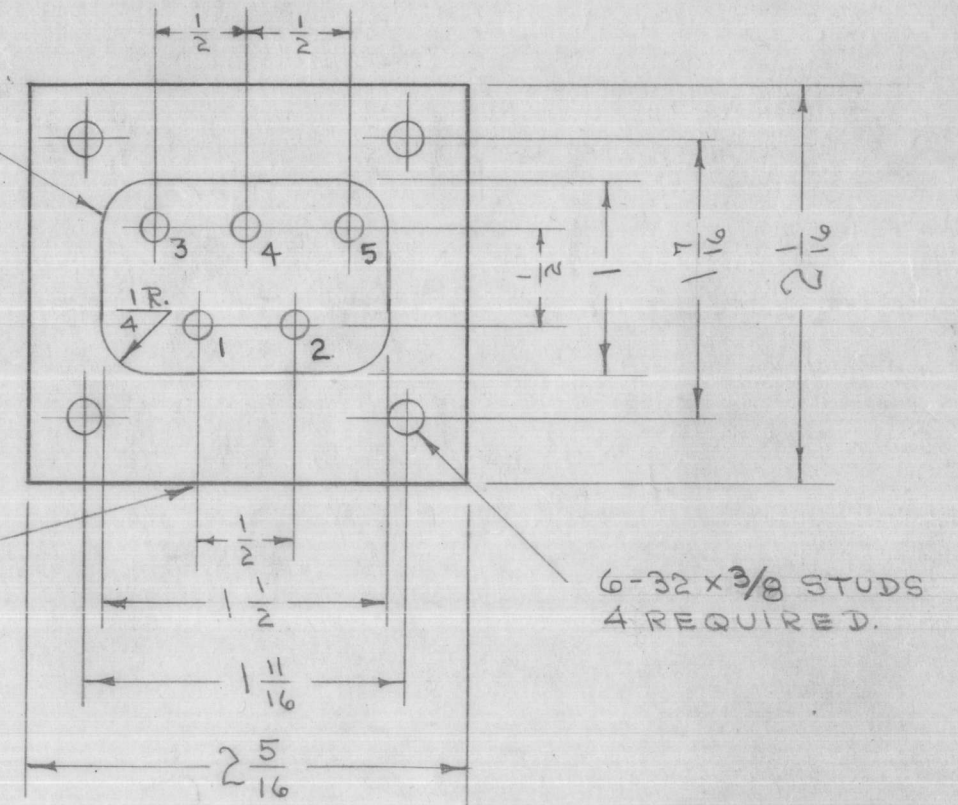
Finish; S-115 TMC Smooth Gray Enamel. ~~Dark gray with an enamel similar or equal to Mass & Weinstein # 68397 Gray.~~

C. GENERAL SPECIFICATIONS:

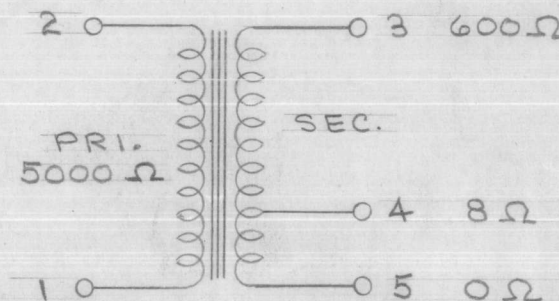
~~The unit shall be constructed in accordance with MIL-T-27 Grade 1 Class A with an insulation resistance of 1000 volts D.C. from all windings to ground and between windings.~~

* TMC Part No. TF-100 No Issue Letter

CHASSIS CUTOUT



SCHEMATIC DIAGRAM THIS SIDE



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

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THE TECHNICAL MATERIEL CORPORATION
 MAMARONECK NEW YORK

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
E	2	ON MECH. SPECS. LETTERING CLARIFIED	22-63	8605			
	1	FINISH CLARIFIED					
D	1	NOTE ADDED (MIL T-27-A)	6-30-60	2572			
C		REDRAWN - NO CHANGE	5/1/53				

TOLERANCES		SCALE:
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± 1/64 ANGULAR DIM. ±	A

FFR	104	A-258	6-3-52
MODEL	PROJECT NO.	ASS'Y. NO.	DATE

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
STOCK SIZE			TRANSFORMER, OUTPUT, AUDIO	
MATERIAL		WEIGHT PER PC.		
TYPE & TEMPER		G.T.O		
HEAT TREAT. SPEC.		G.T.O		
FINISH & SPEC. NO.		TF-100		CE

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

RELEASED

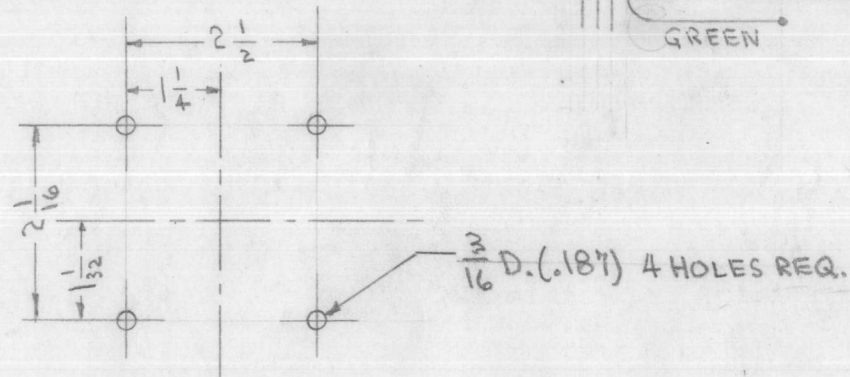
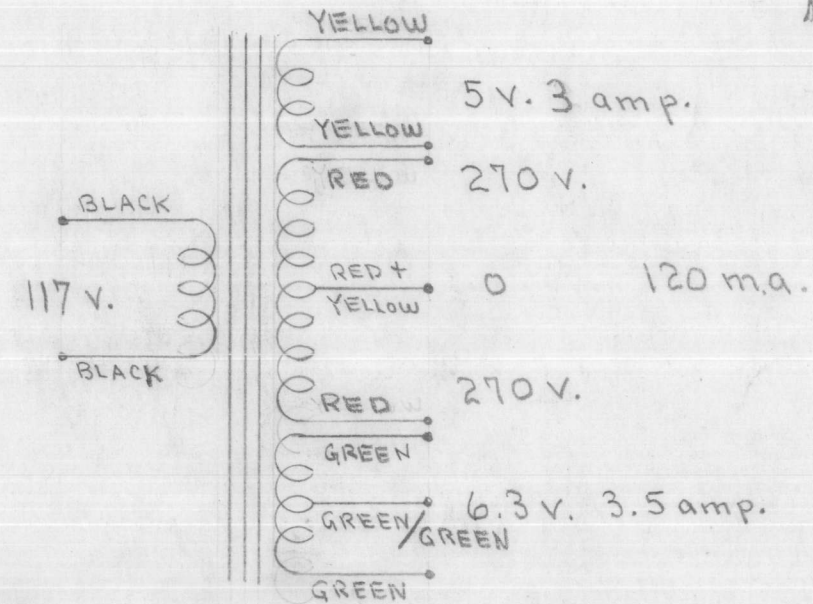
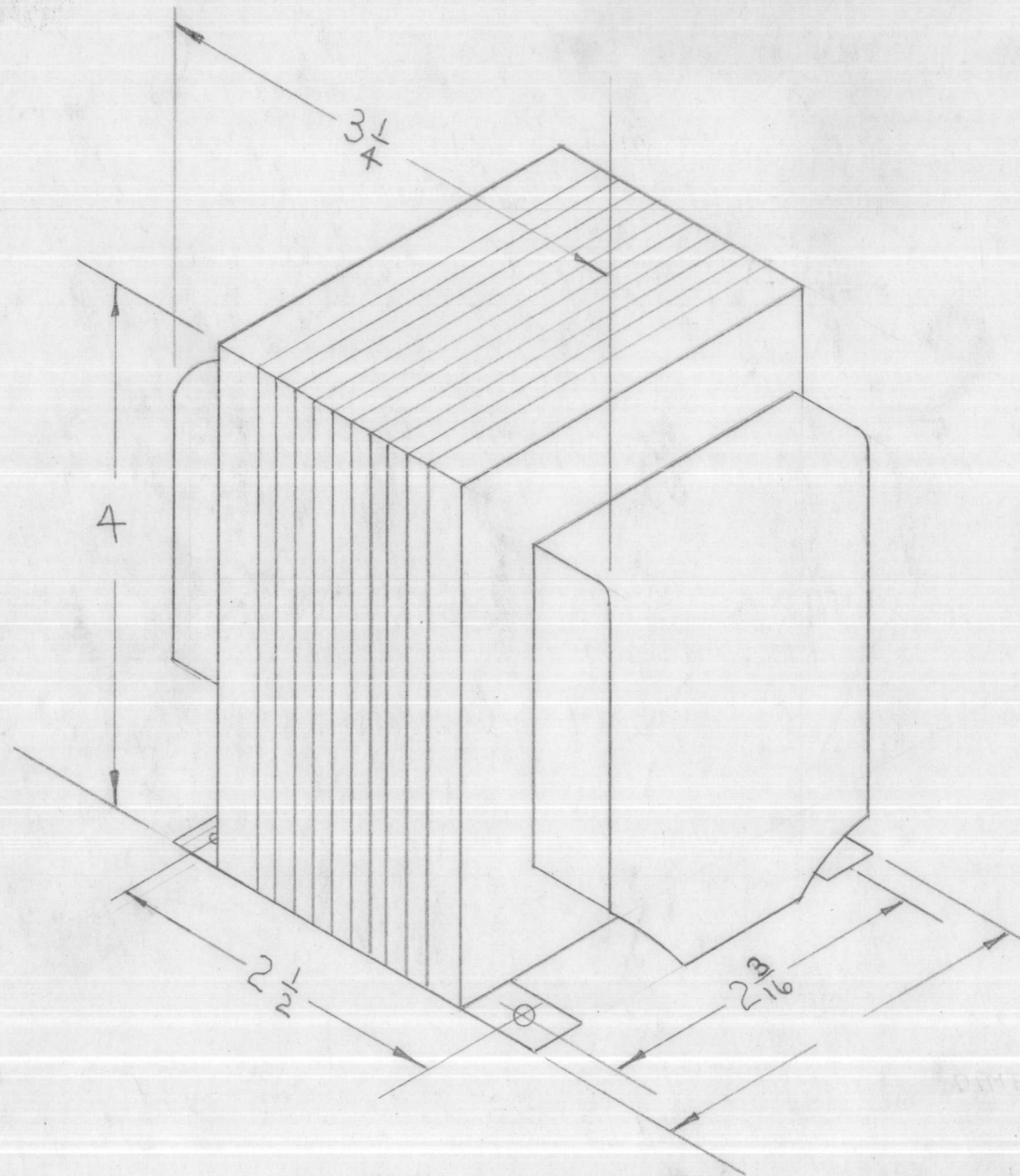
TF-102

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DRILLING PLAN

DIMENSIONS FOR REFERENCE ONLY

REF.: STANDARD TRANSFORMER CORP. CAT.# PC8405

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
	#		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	#	#	TRANSFORMER, POWER	
			PLATE + FILAMENT SUPPLY	
			C.I.D. 8-6-52	ORB
			DRAWN	ELEC. DES. APP. ORB MECH. DES. APP. [Signature]
			CHECKED	FINAL APPROVAL [Signature]
				TF-102

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.	
TOLERANCES								
SCALE: 5/16-1/64								
DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.								
ALL OTHERS	DEC. DIM. ±	FRAC. DIM. ±	ANGULAR DIM. ±	C				

VTG	103	A-124	8-6-52
MODEL	PROJECT NO.	ASS'Y. NO.	DATE
USED ON			

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

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

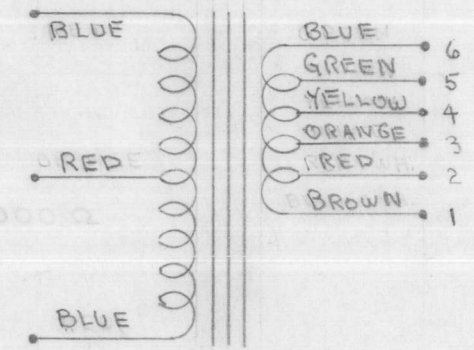
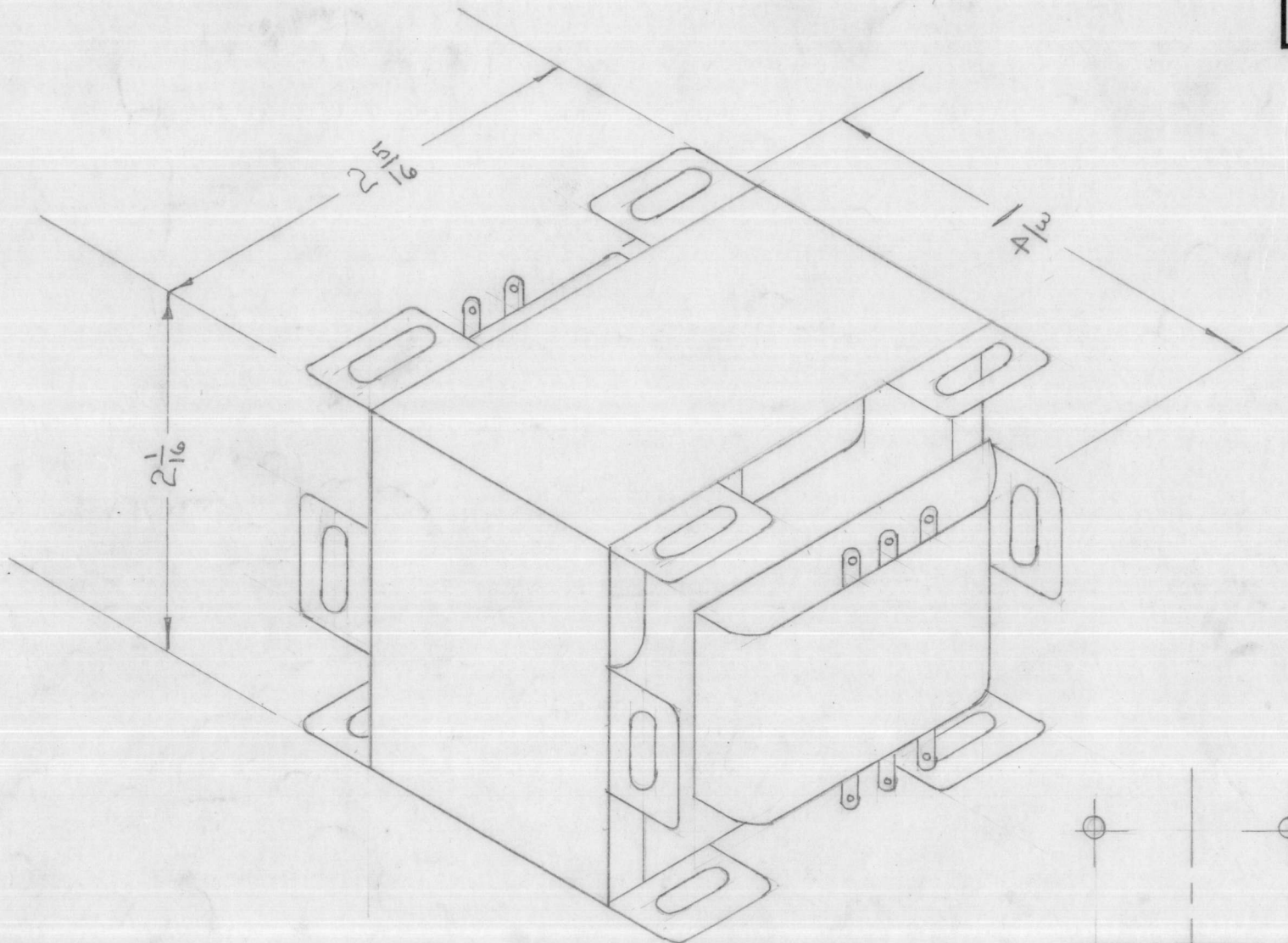
RELEASED

TF-103

NOTICE TO PERSONS RECEIVING THIS DRAWING

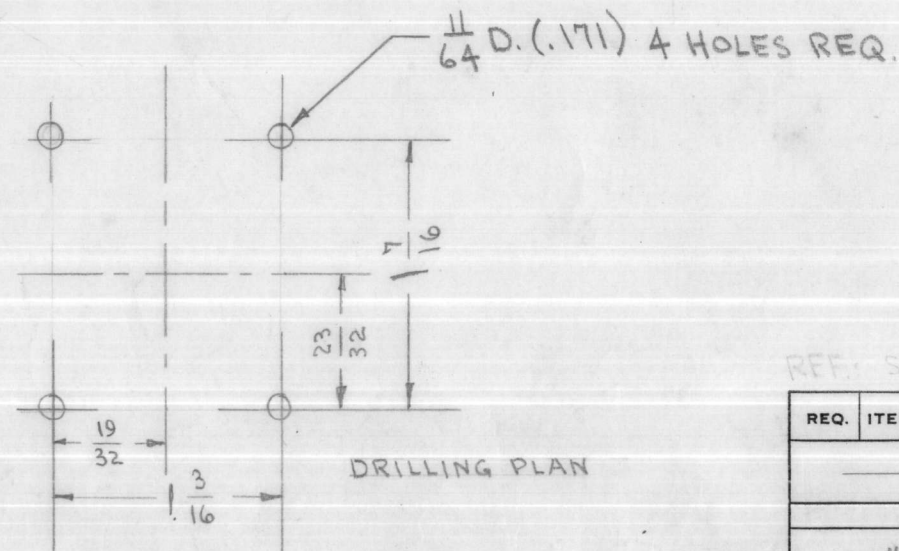
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VALUES AT 8000 Ω	
TAPS	IMP.
1-2	.50
1-3	1.08
1-4	1.94
1-5	5.60
1-6	24.00
2-3	.10
2-4	.46
2-5	2.70
2-6	17.60
3-4	.12
3-5	1.72
3-6	14.80
4-5	.90
4-6	12.40
5-6	6.60

DIMENSIONS FOR REFERENCE ONLY



REF: STANDARD TRANS. CORP. CAT. # A 2855-15W

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
	#		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	#	#	TRANSFORMER, OUTPUT	
			C.O.D. 8-6-52	
			DRAWN	ELEC. DES. APP. MECH. DES. APP.
			CHECKED	FINAL APPROVAL
				TF-103

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

TOLERANCES: SCALE: S401-160

VTG	103	A-124	8-6-52
MODEL	PROJECT NO.	ASS'Y. NO.	DATE

DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

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

TF-106 G

POWER TRANSFORMER TF-106

ELECTRICAL SPECIFICATIONS

PRIMARY = 110/220 V, 50/60 CYCLE, SINGLE PHASE.

SECONDARY NO. 1 = 600 V, .070 A, CENTER TAPPED.

SECONDARY NO. 2 = 6.3 V, 3 A, CENTER TAPPED.

SECONDARY NO. 3 = 5 V, 2 A.

SECONDARY NO. 4 = 6.3 V, 1.2 A SO PHASED THAT

12.6 V WILL APPEAR ACROSS TERMS. 10 & 13

IF TERMS 8 & 14 ARE CONNECTED TOGETHER.

INSULATION = ALL WINDINGS SHALL BE INSULATED FOR 1000 V.

HEAT RISE = MAX. TEMP. RISE + 40°C.

MECHANICAL SPECIFICATIONS

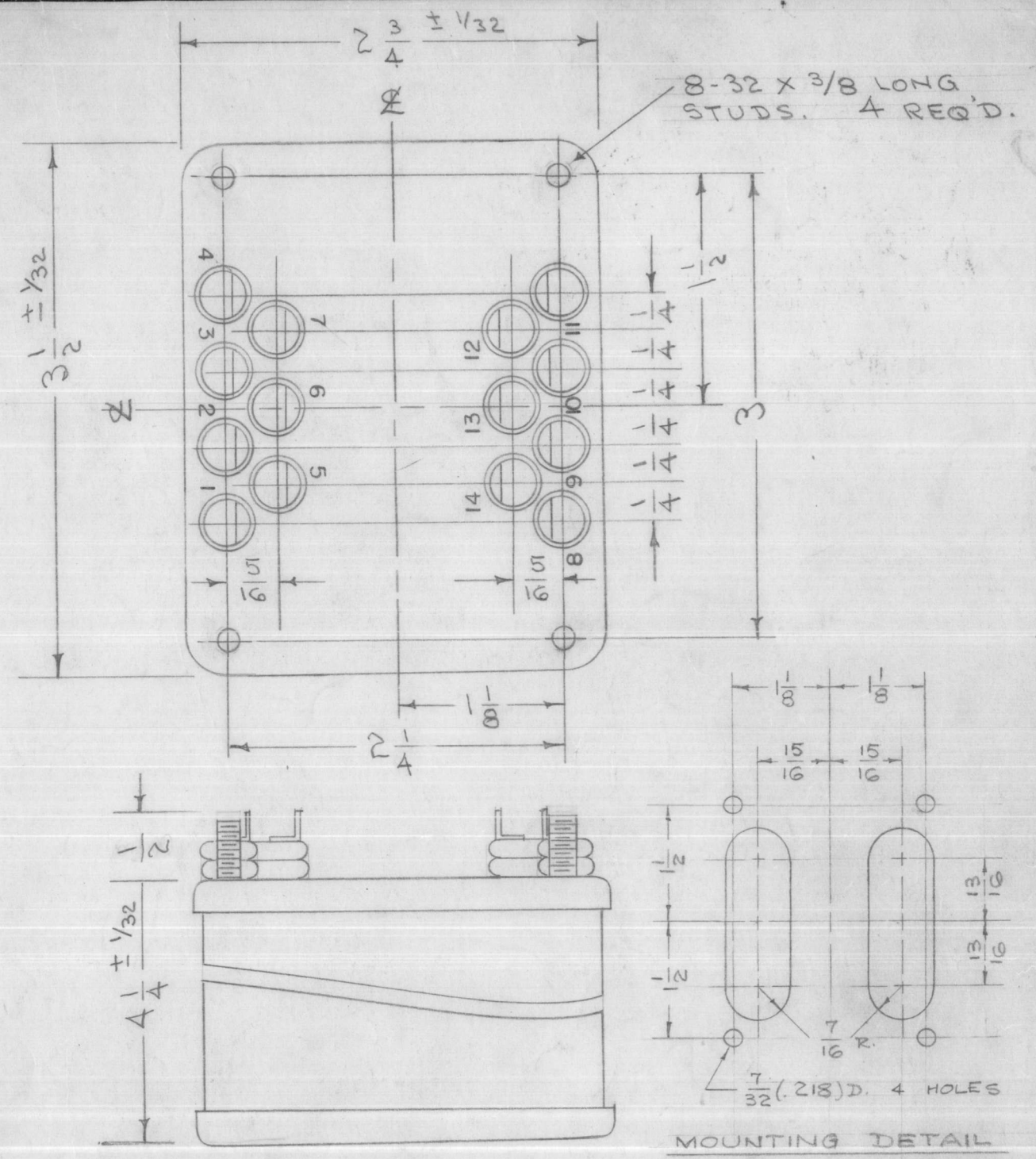
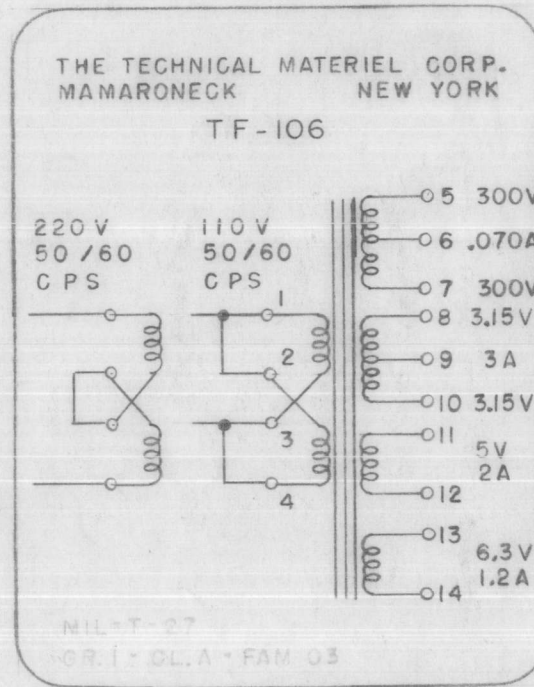
CASE = HERMETICALLY SEALED IN RECTANGULAR STEEL CASE.

FINISH = S-115 SMOOTH GREY ENAMEL.

SIZE = EXCLUSIVE OF TERMS. - 3 1/2" X 2 3/4" X 4 1/4".

LETTERING = TERMS. SHALL BE METAL STAMPED 1 TO 14 AS SHOWN.

OPPOSITE END SHALL APPEAR AS SHOWN



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

G	1	NOTE ADDED (MIL T-27-A)	6-28-60	2572	JAW	AW	15
F	1	MOUNTING DETAIL ADDED	3/29/54	3	JAW	AW	
E	3	TOL. ADDED	10/1/54	2	JAW	AW	
D	2	220 V CONNECTION ADDED	5/21/54	1	C.D.D.	JAW	AoJoJo
D	1	REDRAWN					
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE:				
ALL OTHERS	DEC. DIM. ±	FRAC. DIM. ±	ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.			

RTC					1-6-53
RSP					1-6-53
CFA					1-6-53
DCU					1-6-53
DVM					10-3-52
PSP					
MODEL	PROJECT NO.	ASS'Y. NO.	DATE		
USED ON					

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK. NEW YORK	
			TRANSFORMER, POWER	
STOCK SIZE				
MATERIAL		WEIGHT PER PC.		
TYPE & TEMPER		CDD 10-3-52	AoJoJo	AW
HEAT TREAT. SPEC.		DRAWN ELEC. DES. APP. MECH. DES. APP.		
FINISH & SPEC. NO.		CHECKED FINAL APPROVAL		
		SUPERCEDES TF-123	TF-106	G
		TP-001 & AEM-032		

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RELEASED

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

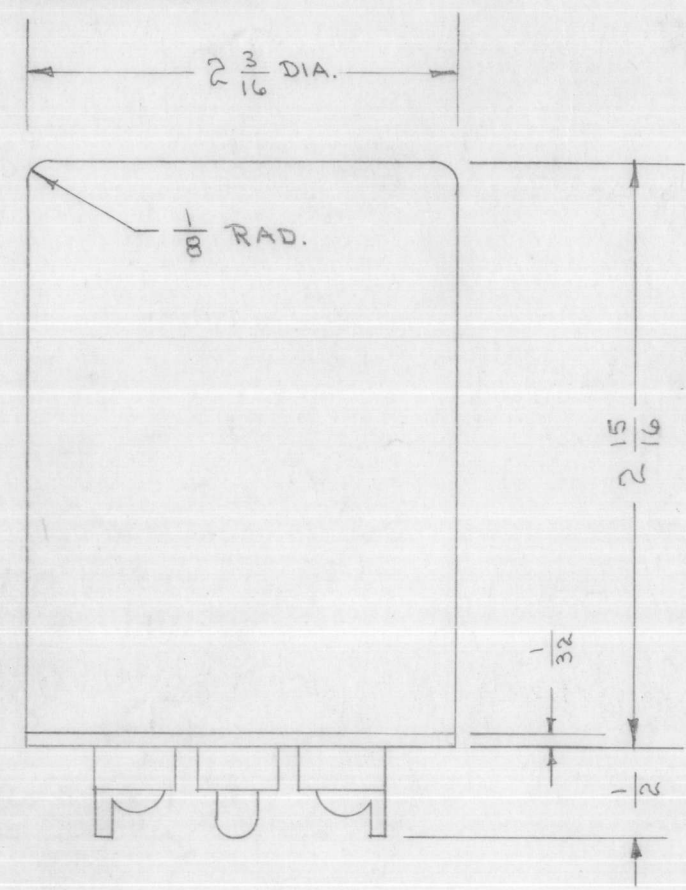
TF-109 B

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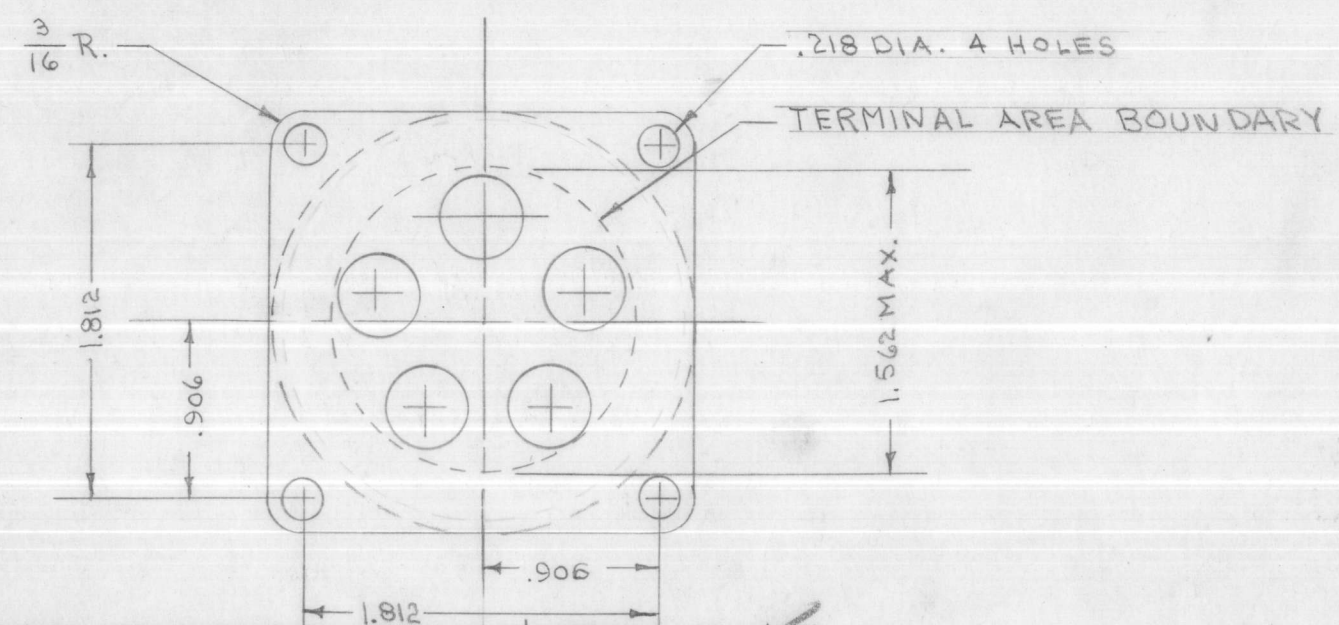
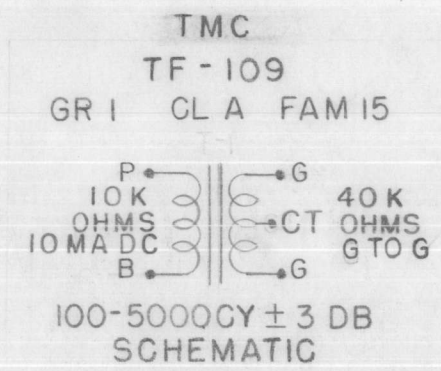
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MAMARONECK, NEW YORK



NOTES:

- 1- FINISH SHALL BE S-116 (SMOOTH BLACK ENAMEL)
- 2- SCHEMATIC DIAGRAM, TMC PART NO. (TF-109), MANUFACTURERS NAME AND PART NO. SHALL APPEAR ON TRANSFORMER.
- 3- 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	CN. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	NOTE ADDED (MIL T-27A)	6-28-60	2572			
A	1	TMC Added	10/12/53	1			

TOLERANCES		SCALE: 1/16"	
ALL OTHERS	DEC. DIM. ± .005 FRAC. DIM. ± 1/64 ANGULAR DIM. ±	A	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

MODEL	PROJECT NO.	ASS'Y. NO.	DATE

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
			TRANSFORMER, A.F.	
			(T-1)	
			C.O.D. 12-11-52	G.T.O
			DRAWN	ELEC. DES. APP. MECH. DES. APP.
			JAD 12-12-52	
			CHECKED	FINAL APPROVAL
			SUPERCEDES	
			B-379-M	TF-109 B

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

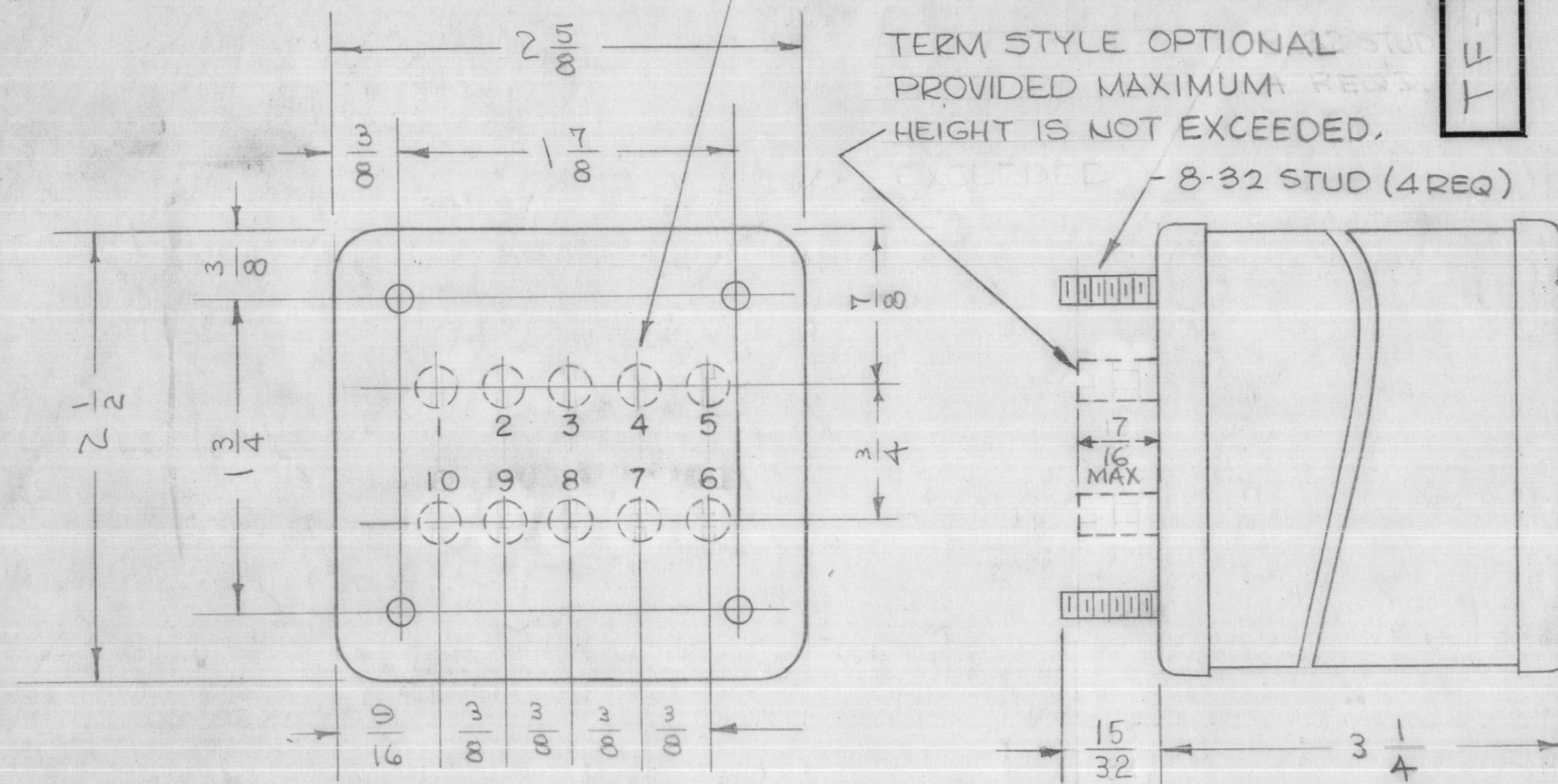
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

STAMP TERM. No's AS SHOWN
1/8 HIGH LETTERS

TF-126 G

TERM STYLE OPTIONAL STUD PROVIDED MAXIMUM HEIGHT IS NOT EXCEEDED.

8-32 STUD (4 REQ)



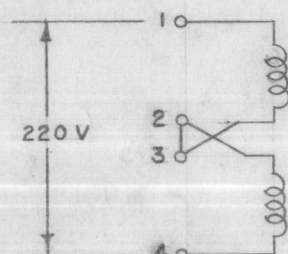
A. ELECTRICAL SPECIFICATIONS:

- PRIMARY: 110/220 volts 50/60 CPS- single phase
- SECONDARY #1: 250-0-250 volts RMS, 35MA DC operating into a 4 MFD capacity input filter.
- SECONDARY #2: 6.3 Volts center tapped at 3 AMPS.
- INSULATION: all windings insulated for 1000 V.
- HEAT RISE: Max. temperature Rise + 40° C.

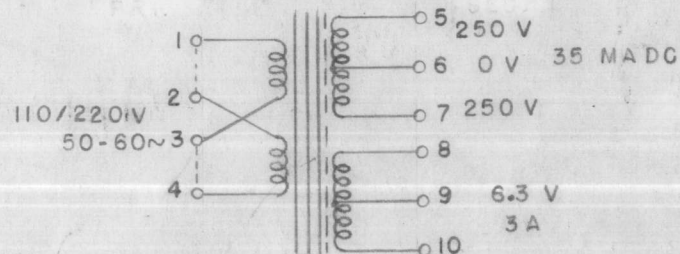
B. MECHANICAL SPECIFICATIONS:

- CASE: Hermetically sealed in rectangular metal can.
- FINISH: Smooth Dark Gray Enamel, Similar or Equal to Maas & Waldstein lot #68397, Navy Spec. 52E4, Type C, Gloss 35 to 40 units. (S115)
- SIZE: 3 1/4 x 2 1/2 x 2 5/8 (Olympic #4 Box) plus terms.
- Mounting Center: As shown
- TERMINALS: 13/32 long O/a solder type terminals and ceramic bushings, located on mounting end.
- LETTERING: Schematic Diagram, TMC Part Number (TF-126)
- TMC Name and part number shall appear on end opposite terminals.

220V CONNECTIONS



THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK
PART NO. TF 126



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

G	TERMS. MADE OPT	6.20.66	16428	LHW	JCB	JC	
F	1	SPECS. TERM 13/32 WAS 3/8	6/25/64	11653	A.M.	JCB	
		13/32 DIM WAS 3/8					
		15/32 DIM WAS 13/32					
E	2	SEE EMN #10885	2/13/64	10885	A.M.	TR	
D	1	CHG DIM. 13/32 WAS 15/32	9/26/63	10053	JCB	JCB	
C	1	NOTE ADDED (MIL T-27-A)	6/28/64	2572	JCB	JCB	
B	1	STATIC SHIELD ADDED	1/13/63	2	JCB	G.T.O.	
A	1	220 V CONNECTIONS ADDED	7/11/53	1	JCB	G.T.O.	
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE: 1/8"					
ALL DIMENSIONS		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					

NOTE: STATIC SHIELD GROUNDED TO LAMINATION.

IMPORTANT:
WHEN TF 126 IS ORDERED AS A SPARE PART FOR THE MODEL GPT-40K, SECTION AP 103, TF 256 WILL BE SENT IN ITS PLACE. ALL OTHER APPLICATIONS OF TF 126 ARE STILL VALID.

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
			TRANSFORMER	
			POWER	
			CDD. B-31-53	G.T.O. WDJ
			DRAWN	ELEC. DES. APP. MECH. DES. APP.
			CHECKED	G.T.O.
				FINAL APPROVAL
				TF 126 G

MODEL	PROJECT NO.	ASS'Y. NO.	DATE

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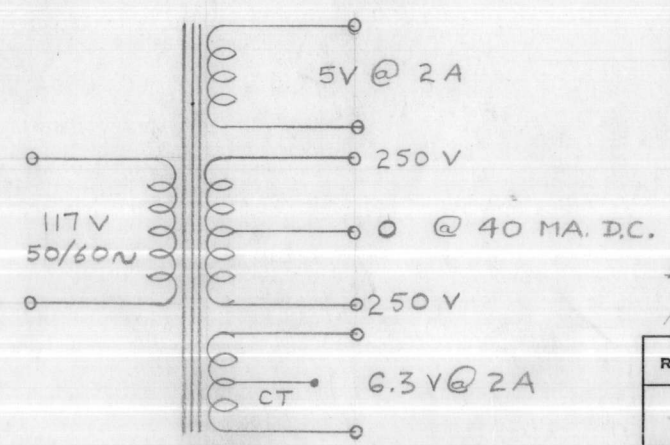
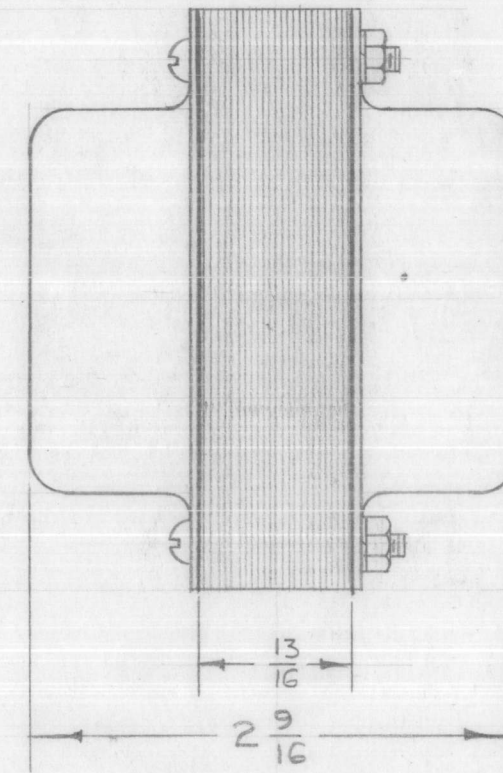
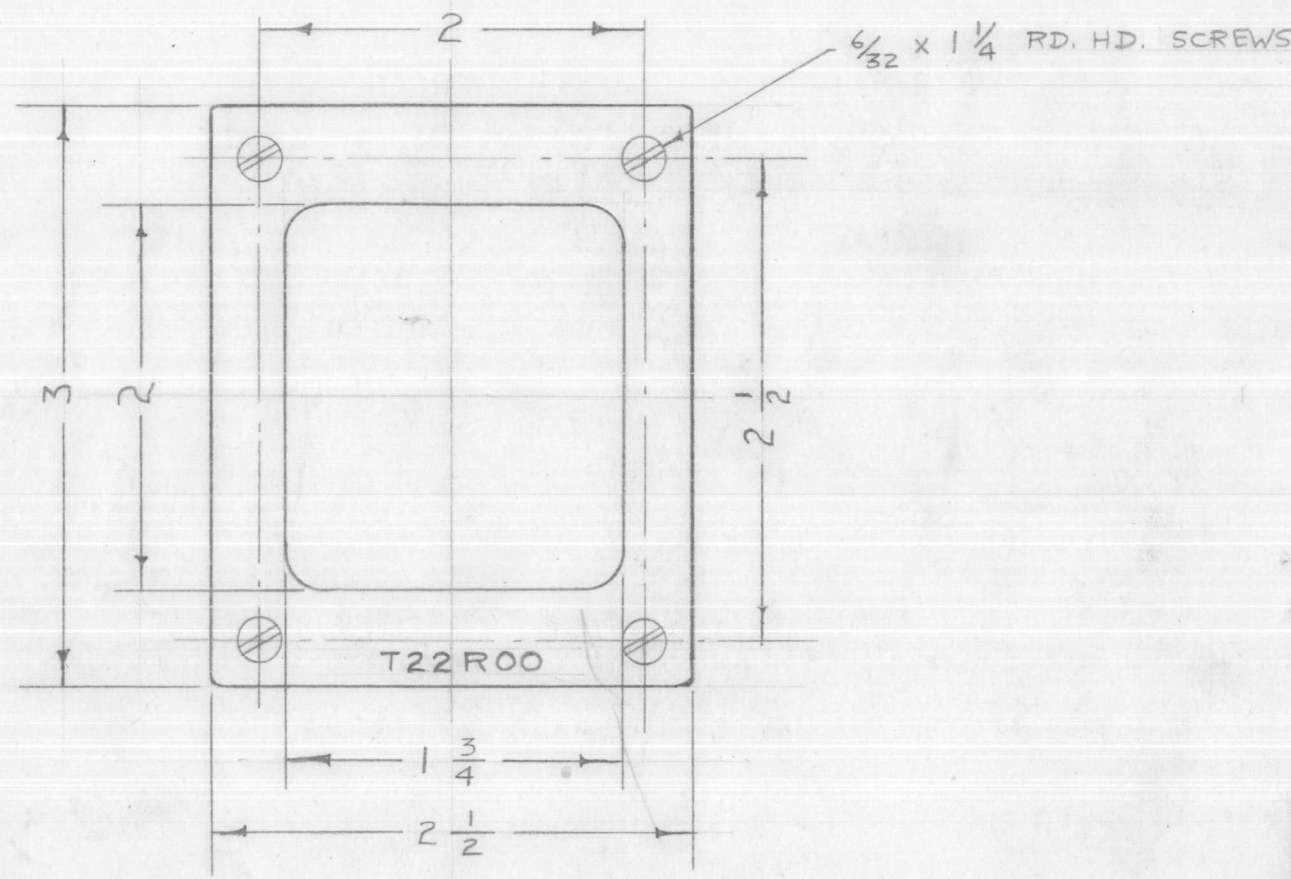
TF-130 A

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MAMARONECK, NEW YORK



SCHEMATIC

DIM. FOR REF. ONLY

REF T22R00 ON ELEC. MFG. DIV. (T-22R00)

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		//	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		STOCK SIZE		
		//	TRANSFORMER,	
		MATERIAL	POWER	
		WEIGHT PER PC.		
		//		
		TYPE & TEMPER	46 9/14/53	G.T.O
			DRAWN	ELEC. DES. APP. MECH. DES. APP.
		//	JAD	G.T.O
		HEAT TREAT. SPEC.	CHECKED	FINAL APPROVAL
		//		
		FINISH & SPEC. NO.		

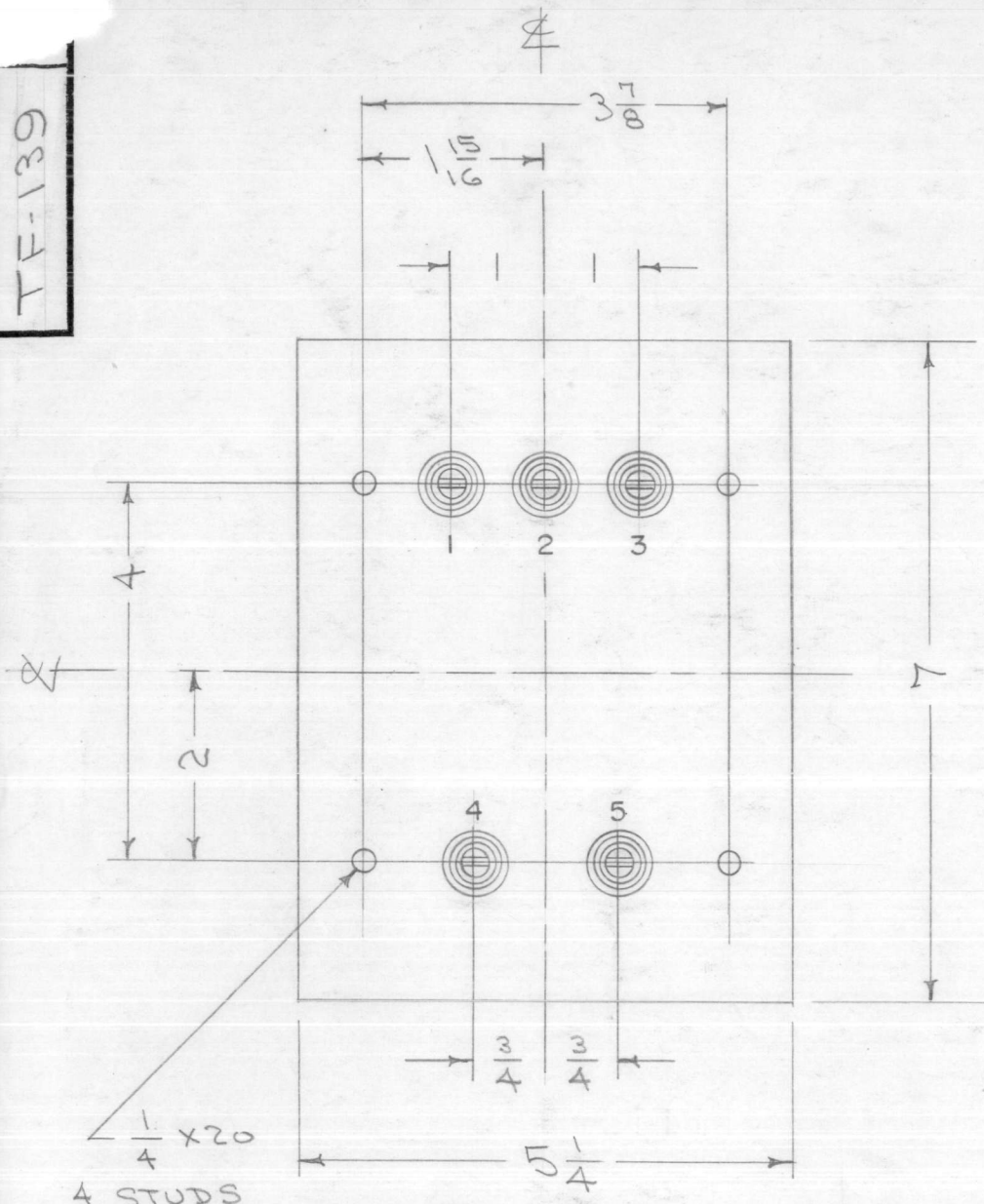
A	1	SCHEMATIC ADDED	10/12/53	1	16	COB	WDC
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

TOLERANCES		SCALE: S401-156
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

RSM	170	TF-131	9/14/53
MODEL	PROJECT NO.	ASS'Y. NO.	DATE

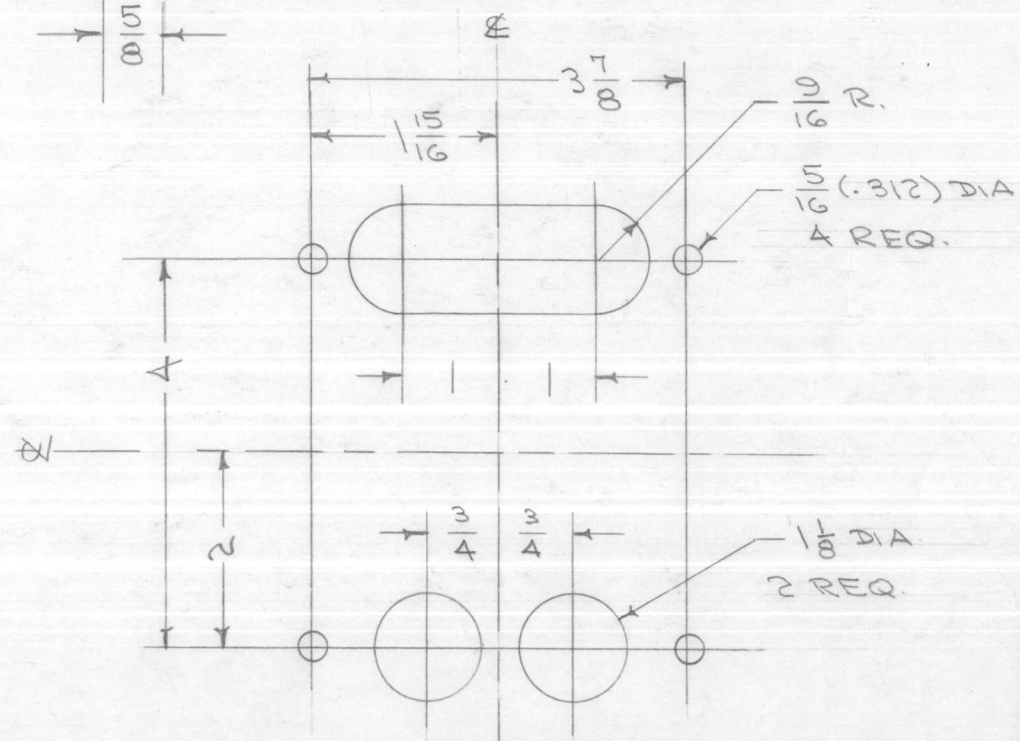
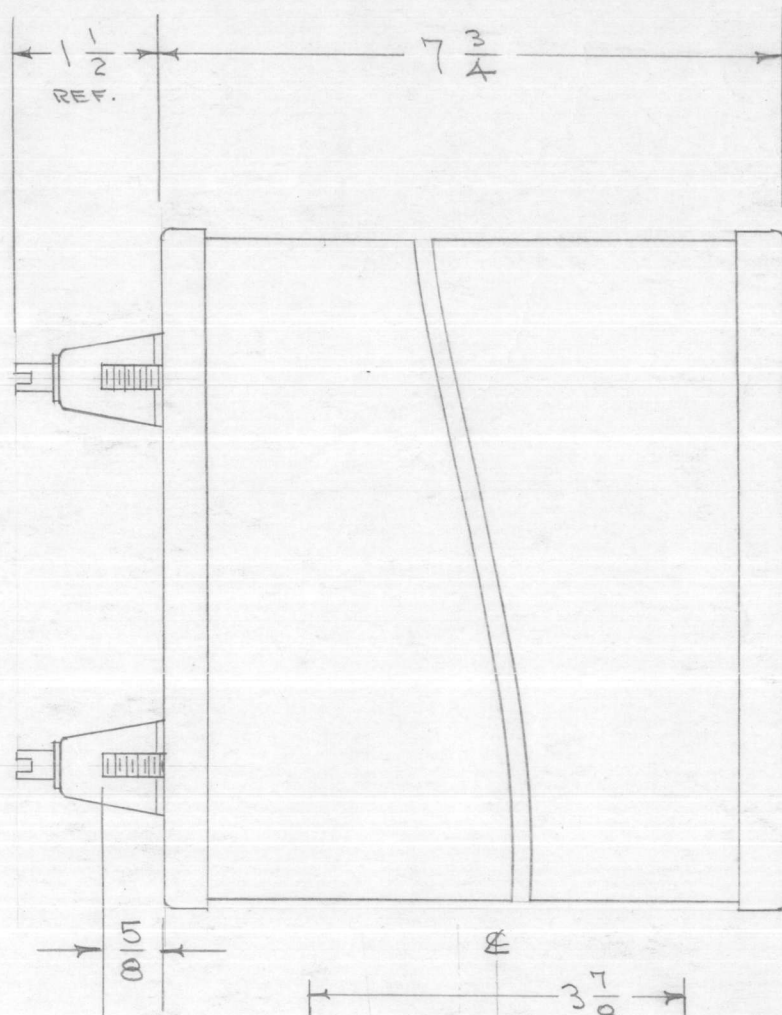
USED ON

TF-139

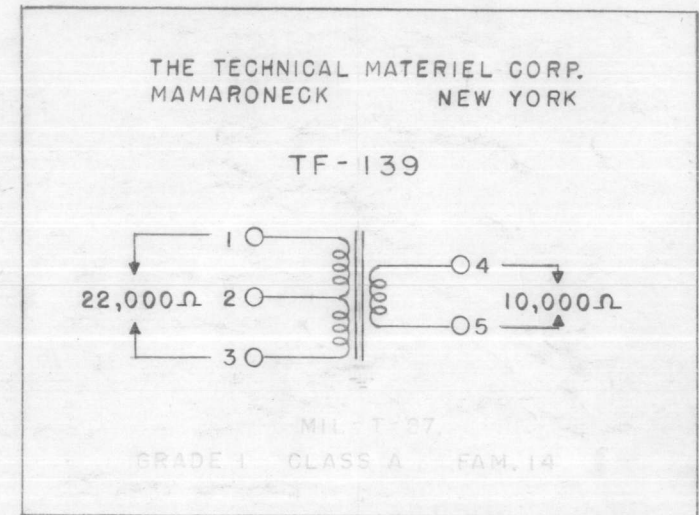


METAL STAMP AS ABOVE

1, 2, 3, 4 & 5



SCHEMATIC TO APPEAR ON END OPPOSITE TERMINALS



MECHANICAL SPECIFICATIONS -

- CASE - STEEL, HERMITICALLY SEALED RECTANGULAR
- COLOR - TMC SMOOTH GRAY (S-115)
- STUDS - 1/4-20 X 5/8 LONG
- SIZE - 5/4 X 7 X 7 3/4 EXCLUSIVE OF TERMINALS

ELECTRICAL SPECIFICATIONS:

- PRIMARY - 22,000 Ω CENTER TAPPED. WORKING VOLTS - APPROX. 1400 V. R.M.S. (EACH SIDE TO C.T.) SUPERIMPOSED ON 2500 V. D.C.
- CURRENT - 250 MA. D.C. BALANCED
- SECONDARY - 10,000 Ω
- WORKING VOLTS - APPROX. 1900 V. R.M.S. SUPERIMPOSED ON 2500 V. D.C.
- CURRENT - 250 MA. UNBALANCED.
- OVERALL -
- POWER LEVEL - 350 WATTS.
- EFFICIENCY - 95% OR GREATER
- RESPONSE - FLAT WITHIN ± 2db. FROM 100 CPS TO 10 KCS
- INSULATION - ALL WINDINGS TO BE INSULATED FOR 8 KV.

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

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572			
A	1	Electrostatic shield removed	10/28/55	1			A.J.J.

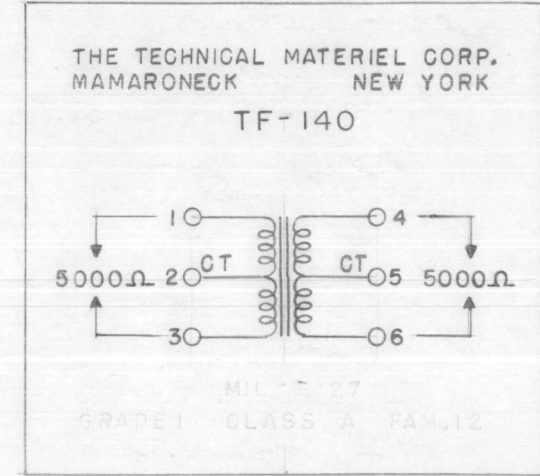
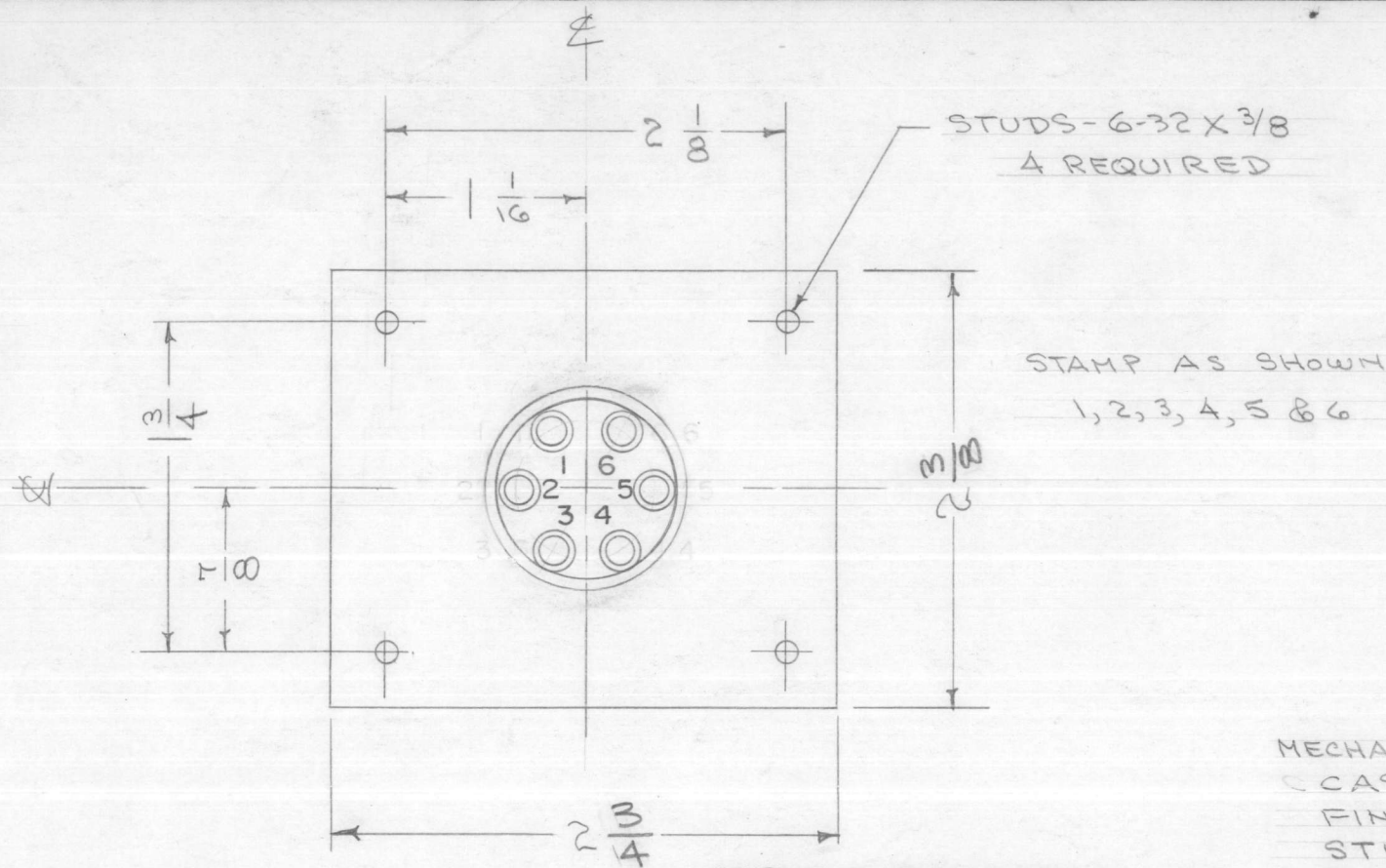
TOLERANCES		SCALE:
DEC. DIM. ±	A	MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES
FRAC. DIM. ±		
ANGULAR DIM. ±		

1	RTM~2			10-16-58
1	RTM			
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, AUDIO	
MATERIAL		MODULATION	
		CDL 10/24/55	A. J. J.
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
			TF-139 B

TF-140 C

SCHEMATIC TO APPEAR ON END OPPOSITE TERMINALS



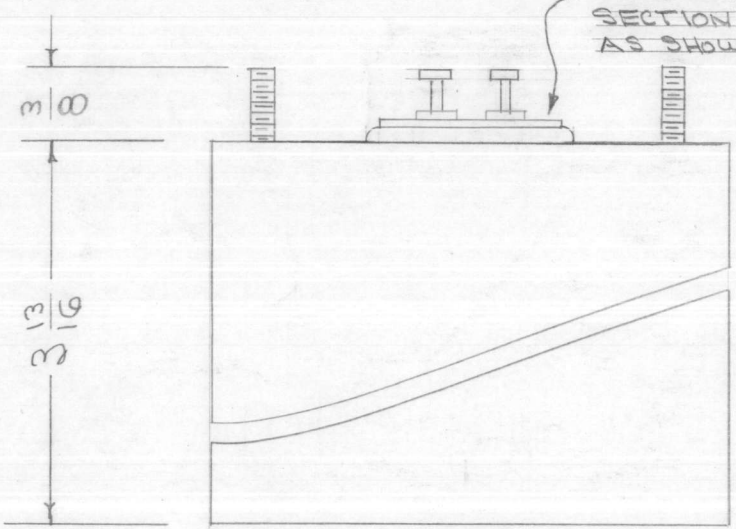
MECHANICAL SPECIFICATIONS

- CASE - HERMETICALLY SEALED RECTANGULAR STEEL CASE
- FINISH - S-115 TMC SMOOTH GRAY ENAMEL (EXCEPT TERM. END)
- STUDS - 6-32 X 3/8 LONG
- SIZE - 2 5/16 X 2 1/16 X 3 13/16 EXCLUSIVE OF TERMINALS

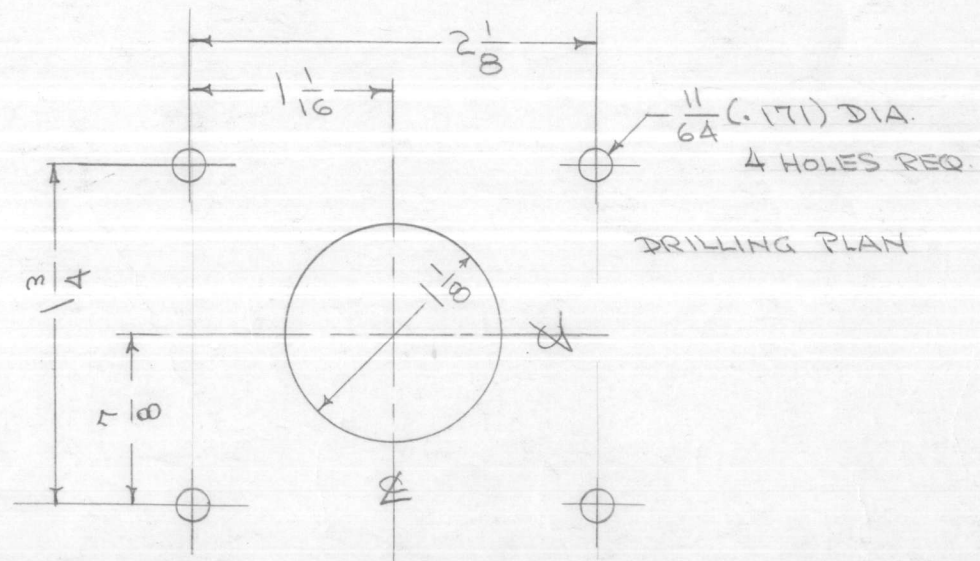
ELECTRICAL SPECIFICATIONS

- PRIMARY - 5000 OHM CENTER TAPPED. TO OPERATE WITH PP 6L6's IN CLASS A. PRIMARY D.C. - 150 MA BALANCED.
- SECONDARY - 5000 OHM CENTER TAPPED. TO OPERATE INTO PP 810 GRIDS CLASS B. SEC. DC - 50 MA BALANCED
- FREQ. RESPONSE - FLAT 12db FROM 50 TO 15,000 ~.
- NOM. POWER LEVEL - 10 WATT OUTPUT
- EFFICIENCY - AT LEAST 95%
- INSULATION - ALL WINDINGS SHALL BE INSULATED FOR 1500V.

TURRET TYPE TERMINAL SECTION TO FIT 1/8 CUTOUT AS SHOWN IN DRILLING PLAN



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

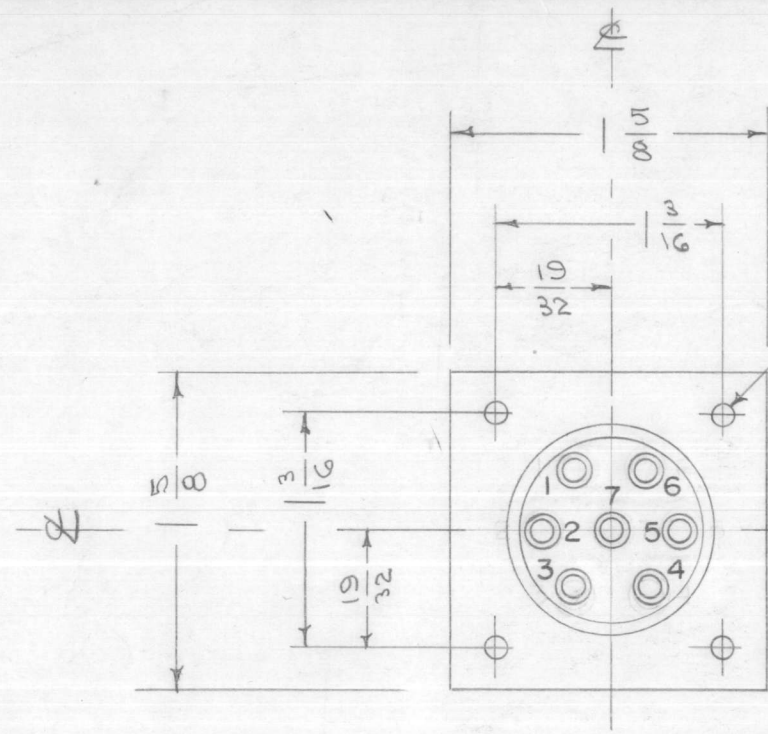


C	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572	JH		KS
B	1	DIM. CHGD FROM 2-5/16 X 2-11/16 TO 2-3/8 X 2-3/4 AS PER BX-100-9	1/3/58	2	KS	JH	AK
A	1	TERM. INFO. ADDED	11-1-55	1	ESD	NCL	AJJ
ISSUE ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	
TOLERANCES		SCALE:					
DEC. DIM. ±	FRAC. DIM. ±	MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES					
ANGULAR DIM. ±	A						

1	RTM-2			10-16-58
1	RTM			10-13-55
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
USED ON				

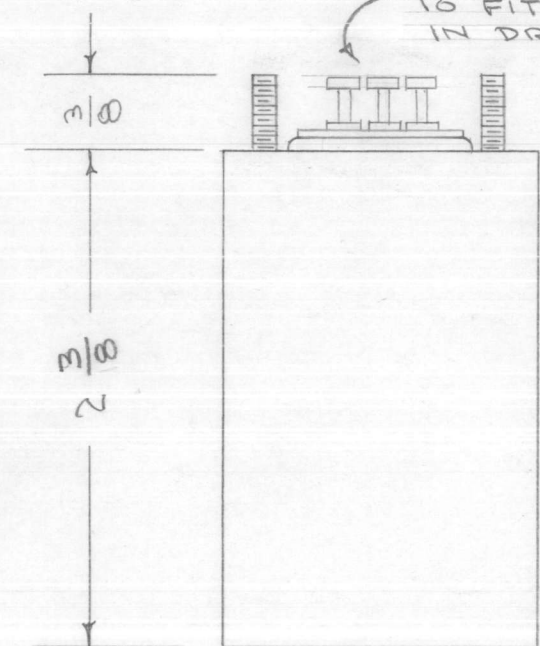
REQ. ITEM	PART NO.	DESCRIPTION		SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK		
	STOCK SIZE	TRANSFORMER, AUDIO DRIVER		
	MATERIAL	GPT-750		
		ADD 10/13/55	FALSE	A. J. J.
	TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
			0.10 P.	AK 10/26/55
	FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.	TF-140 C

TF-141 C

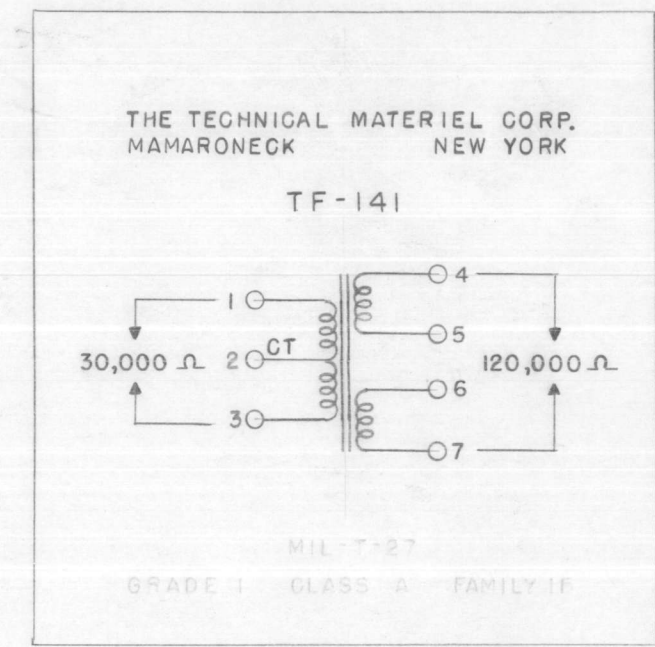


STAMP AS SHOWN
1, 2, 3, 4, 5, 6, 8, 7

TURRET TYPE TERMINAL SECTION
TO FIT 1/8 CUTOUT AS SHOWN
IN DRILLING PLAN



SCHEMATIC TO APPEAR ON END OPPOSITE TERMINALS



MECHANICAL SPECIFICATIONS

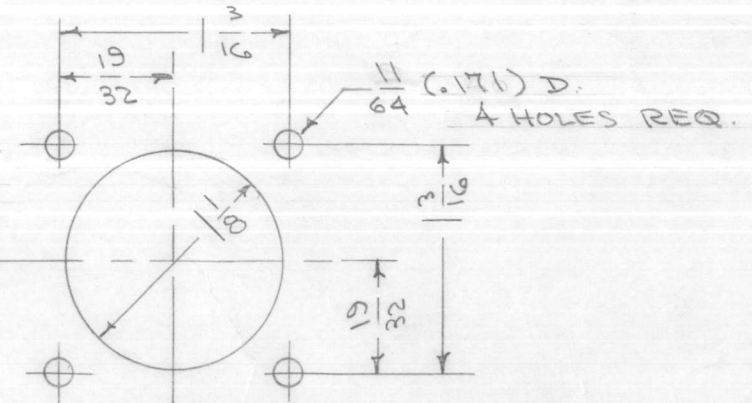
- CASE - HERMETICALLY SEALED RECTANGULAR STEEL CASE
- FINISH - S-115 TMC SMOOTH GRAY ENAMEL (EXCEPT TERM. END)
- STUDS - 6-32 X 3/8 LONG
- SIZE - 1 5/8 X 1 5/8 X 2 9/16 EXCLUSIVE OF TERMINALS

ELECTRICAL SPECIFICATIONS

- PRIMARY - 30,000 OHM CENTER TAPPED. TO CARRY 15MA OF BALANCED DC
- SECONDARY - TWO WINDINGS. 120,000 OHM TOTAL
- FREQ. RESPONSE - FLAT ±2db FROM 50 TO 15,000 Hz.
- INSULATION - ALL WINDINGS SHALL BE INSULATED FOR 1500 V.

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.

DRILLING PLAN

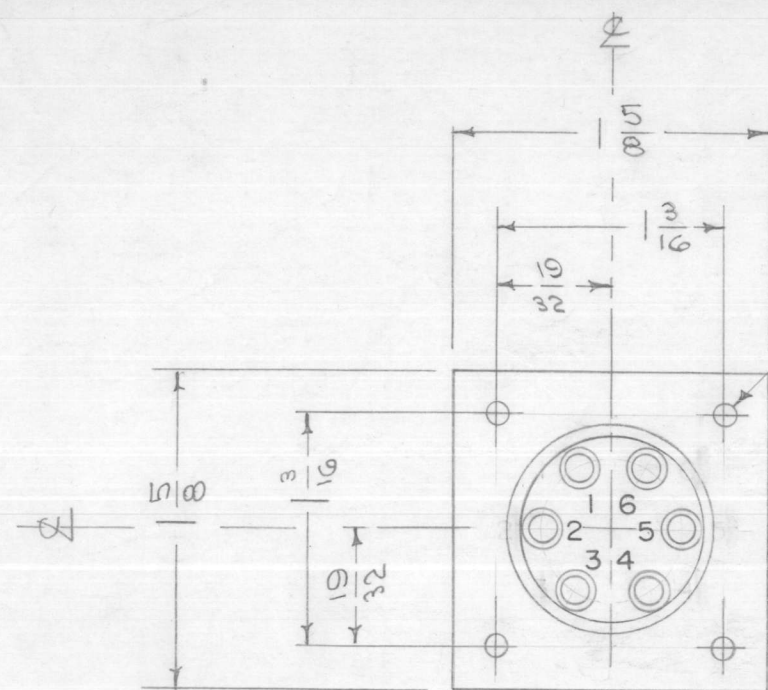


ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
C	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572	1		
B	1	HEIGHT CHGD FROM 2-9/16 TO 2-3/8 AS PER BX-100-A	1/9/58	2	16	Hilde	
A	1	TERM. INFO. ADDED.	11-1-57	1	100	W.C.W.	A.J.J.
TOLERANCES			SCALE:				
DEC. DIM. ±			MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES				
FRAC. DIM. ±							
ANGULAR DIM. ±							

1	RTM-2		10-16-58
1	RTM		10-13-55
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, AUDIO		
	MATERIAL	INTERSTAGE GPT-450		
		CDD: 10/13/55	Hilde	A.J.J.
	TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
				FINAL APPROVAL
	FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.	TF-141 C

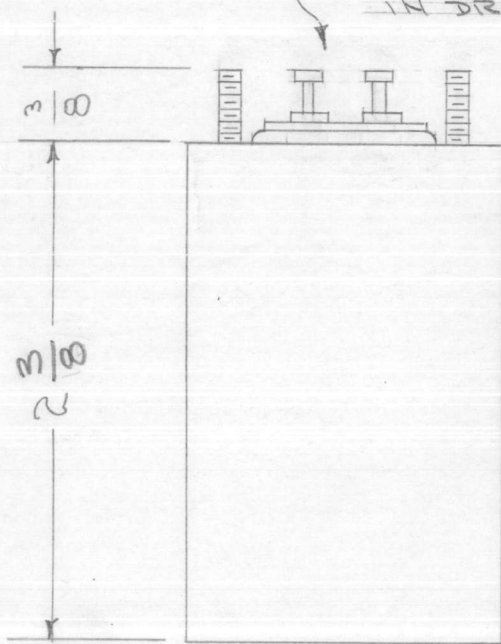
TF-142 C



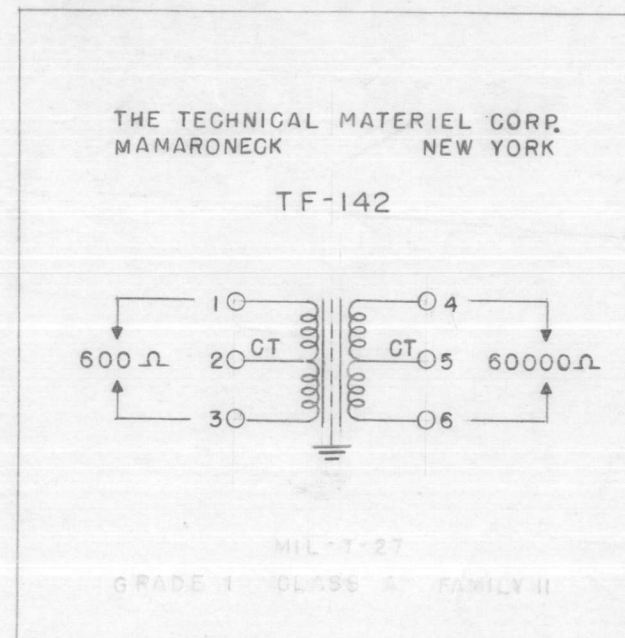
STUDS 6-32 X 3/8
4 REQUIRED

STAMP AS SHOWN
1, 2, 3, 4, 5 & 6

TURRET TYPE TERMINAL SECTION
TO FIT 1/8 CUTOUT AS SHOWN
IN DRILLING PLAN



SCHEMATIC TO APPEAR ON END OPPOSITE TERMINALS



MECHANICAL SPECIFICATIONS:

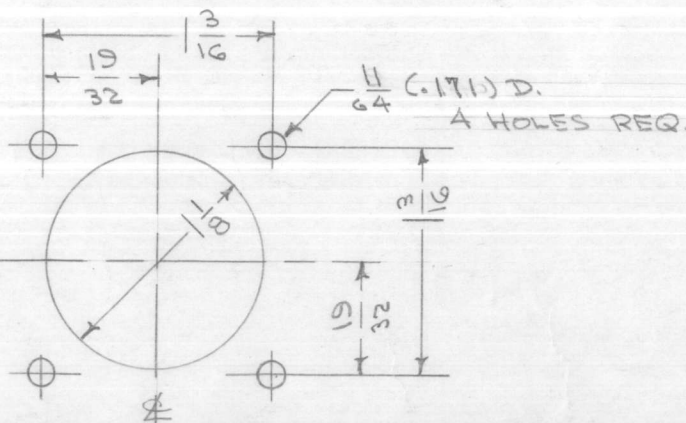
- CASE - HERMETICALLY SEALED RECTANGULAR STEEL CASE.
- FINISH - S-115 T.M.C. SMOOTH GRAY ENAMEL (EXCEPT TERM. END)
- STUDS - 6-32 X 3/8 LONG
- SIZE - 1 5/8 X 1 5/8 X 2 9/16 EXCLUSIVE OF TERMINALS

ELECTRICAL SPECIFICATIONS:

- PRIMARY - 600 OHM CENTER TAPPED
- SECONDARY - 60,000 OHM CENTER TAPPED
- FREQ. RESPONSE - 50 Hz TO 15,000 Hz ± 2 db.
- WINDINGS SHALL BE HUMBUCKING WITH ELECTROSTATIC SHIELD BETWEEN PRI. & SEC.
- INSULATION - WINDINGS SHALL BE INSULATED FOR 1500 V.
- NO D.C. IN 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.

DRILLING PLAN



ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
C	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572			
B	1	HEIGHT CHGD FROM 2-9/16 TO 2-3/8 AS PER BX-120-4	1/9/58	2	16	HWL	AWP
A	1	TERM. INFO. ADDED	11-1-55	1		EDS	W.C.W. A.J.J.

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. ±		

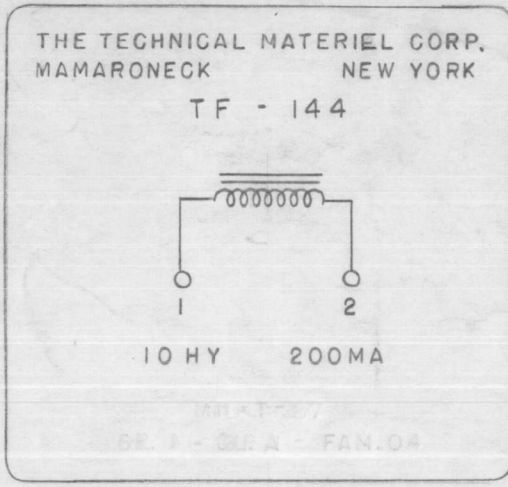
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
1	RTM-2			10-16-58
1	RTM			10-13-55

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	STOCK SIZE	TRANSFORMER, AUDIO INPUT	GPT-150
	MATERIAL		
		EDS 10/13/55	A.J.J.
		TYPE & TEMPER	HEAT TREAT. SPEC.
		DRAWN	CHECKED
		AWP	AM-10/26/55
		FINISH & SPEC. NO.	ELEC. DES. APP. MECH. DES. APP.
			TF-142 C

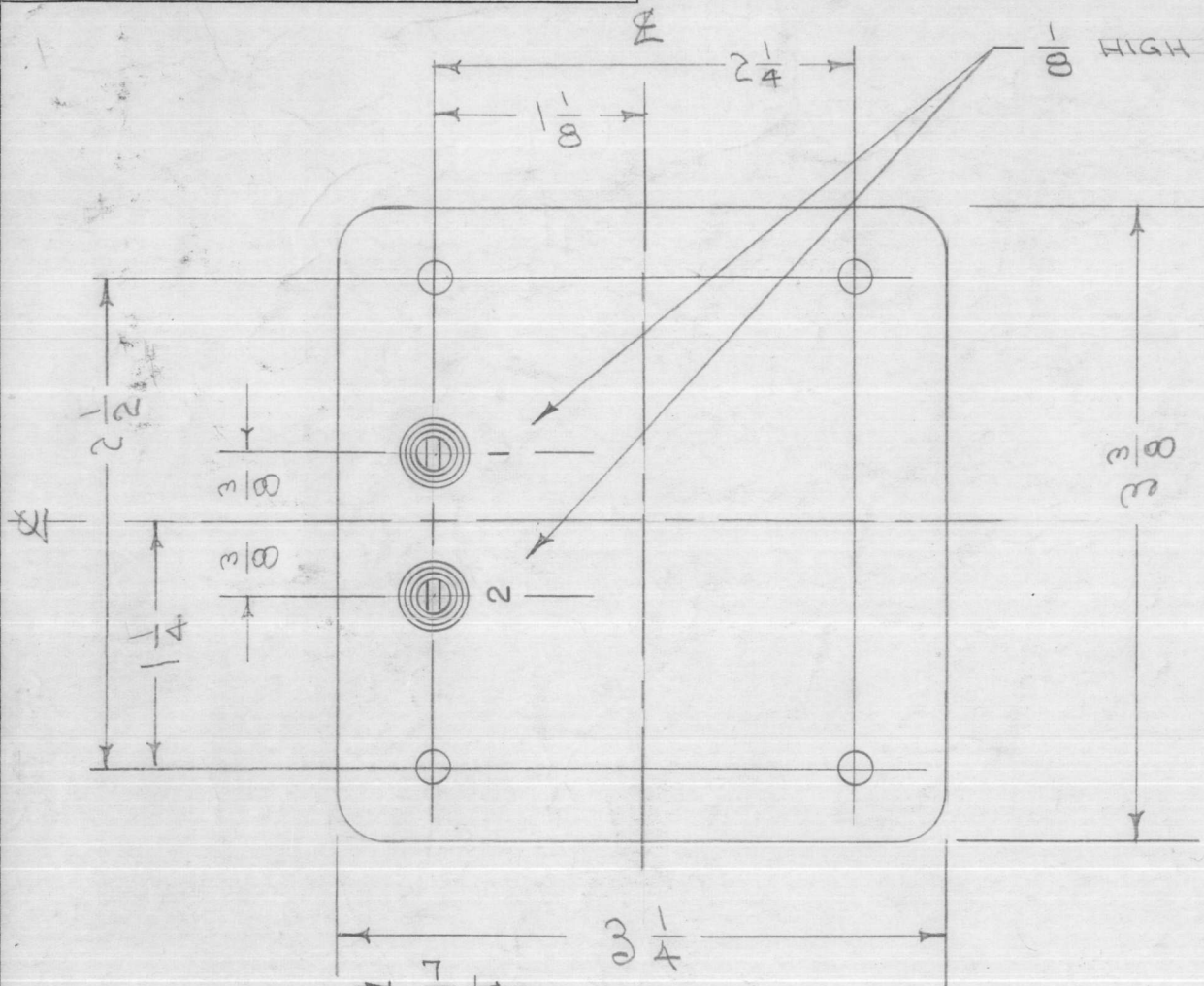
IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

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

TF-144 D



SCHEMATIC DIAGRAM TO APPEAR ON END OPPOSITE TERMINALS



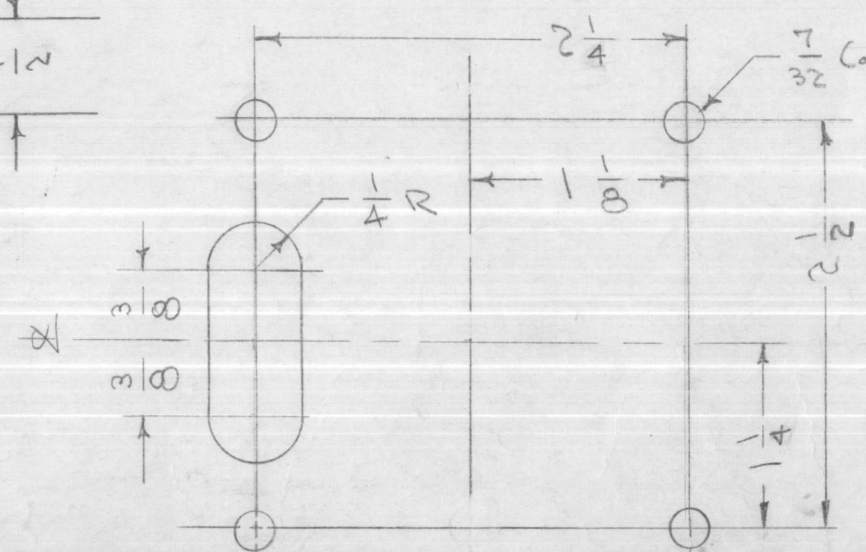
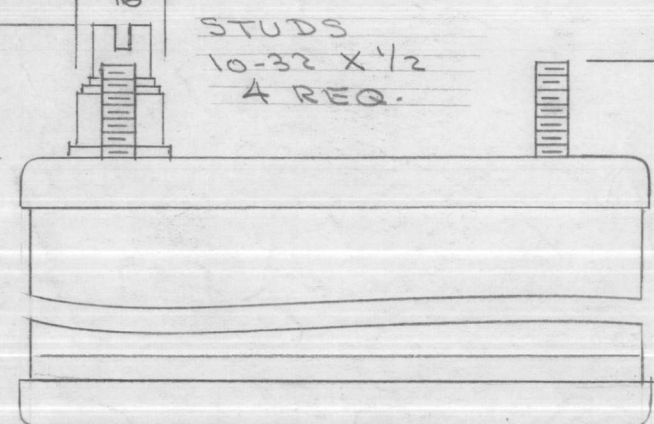
ELECTRICAL SPECIFICATIONS

- INDUCTANCE - 10 HY. AT FULL CURRENT RATING.
- D.C. RES. - APPROX. 85 Ω
- D.C. CURRENT RATING - 200 MA.
- INSULATION - WINDING TO BE INSULATED FOR 1500V.

MECHANICAL SPECIFICATIONS

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

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



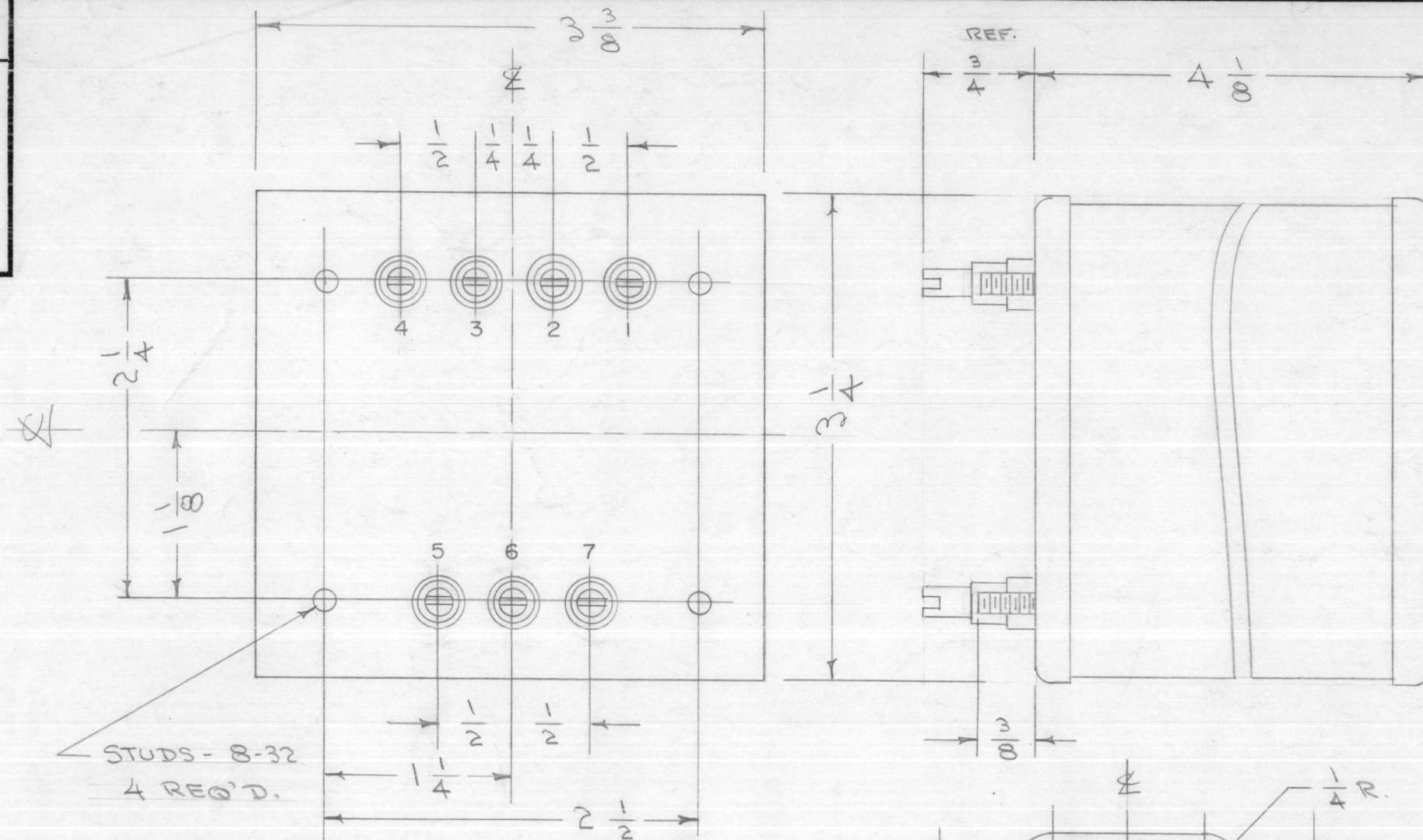
2	REP	CPP-1	MODEL	PROJ	ASSY	5/20/60	DATE
REQ.	ITEM	PART NO.		DESCRIPTION		SYMBOL	
				THE TECHNICAL MATERIEL CORP.			
				MAMARONECK, NEW YORK			
				REACTOR, FILTER,			
				10 HY, 200 MA			
				STOCK SIZE			
				MATERIAL		WEIGHT PER PC.	
				TYPE & TEMPER			
				HEAT TREAT. SPEC.			
				FINISH & SPEC. NO.			

D	1	(1) Hole Relocated on drilling Plan	2-15-61	4173	28m	gcs	cm
C	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572			
B	3	DIM. BACK TO 1" High, 1/16 Term.	7/21/58	409	16		
	2	INSUL. BACK TO 1500V					
A	1	DC RES. BACK TO 85Ω					
	3	WAS 4" HIGH - 1/16 HIGH TERM.	2/25/58	1	16		
	2	WAS INSUL FOR 1500V (NOW 5000)					
	1	DC RES. WAS 85Ω (NOW 110)					

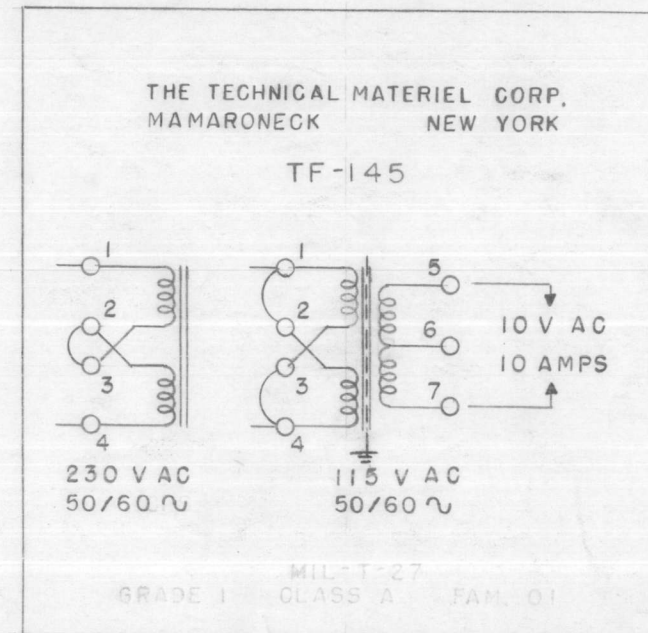
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
3		RTP-2					
3		RTM-2					
3		RTP					
3		NIM					
2		SBE-2					

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
3	RTP-2			10-22-58
3	RTM-2			10-18-58
3	RTP			5-23-58
3	NIM			5-23-58
2	SBE-2			5-5-58

TF-145 A



SCHMATIC TO APPEAR ON END OPPOSITE TERMINALS



METAL STAMP AS ABOVE
1, 2, 3, 4, 5, 6, 7

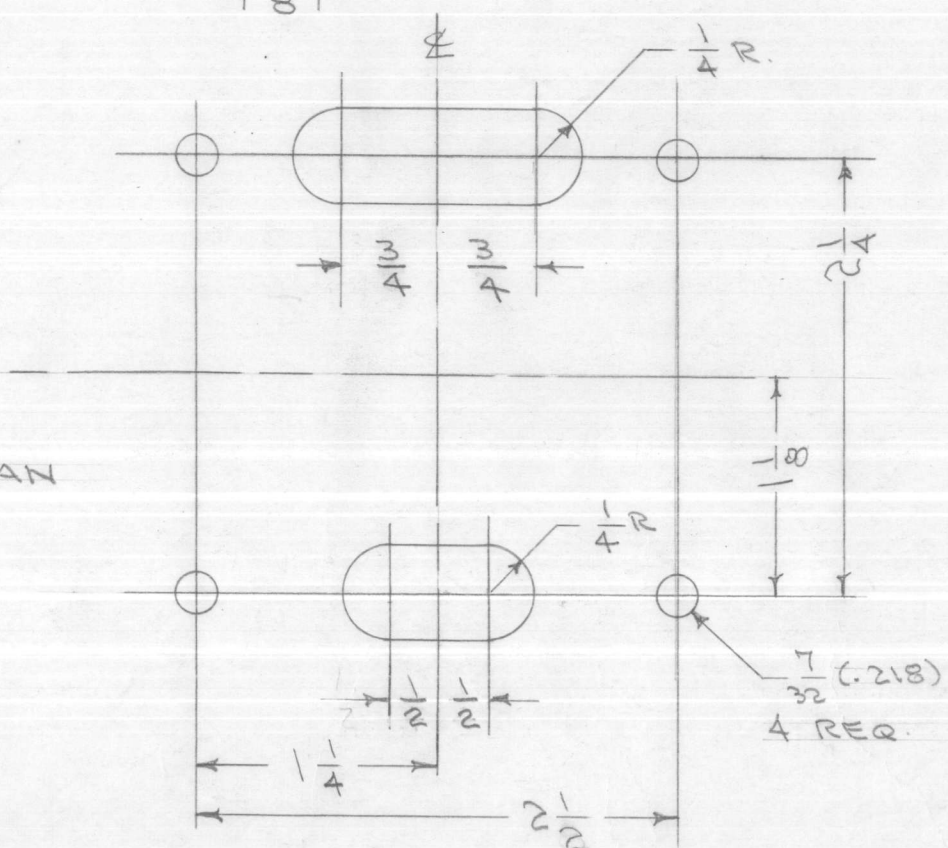
MECHANICAL SPECIFICATIONS
CASE - HERMETICALLY SEALED RECTANGULAR STEEL.
COLOR - TMC SMOOTH GRAY (9-115)
STUDS - 8-32 X 3/8
SIZE - 3/4 X 3 3/8 X 4 1/8 EXCLUSIVE OF TERMINALS

ELECTRICAL SPECIFICATIONS
PRIMARY - 115/230 V AC @ 50/60 CPS
SECONDARY - 10 V @ 10 A. CENTER TAPPED
INSULATION - ALL WINDINGS SHALL BE INSULATED FOR 1500 V.

ELECTROSTATIC SHIELD SHALL BE INSERTED (FOIL).

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.

DRILLING PLAN



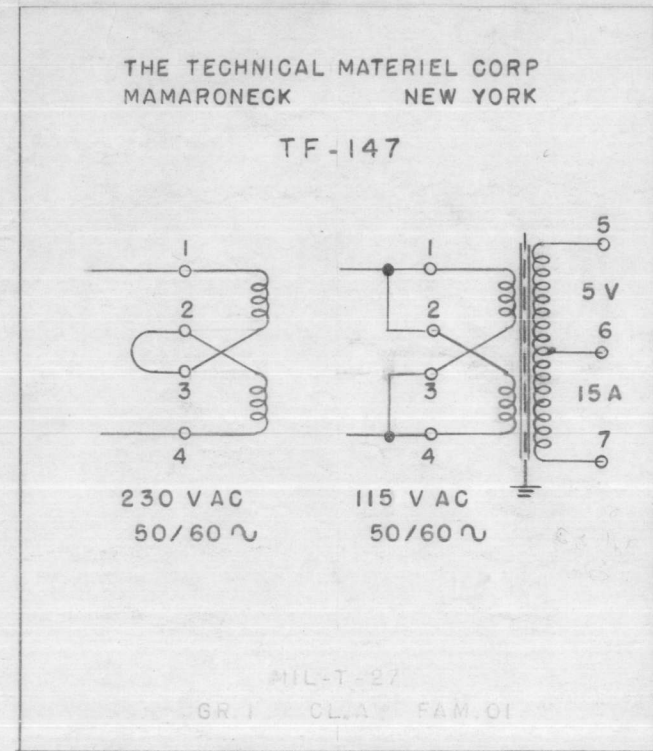
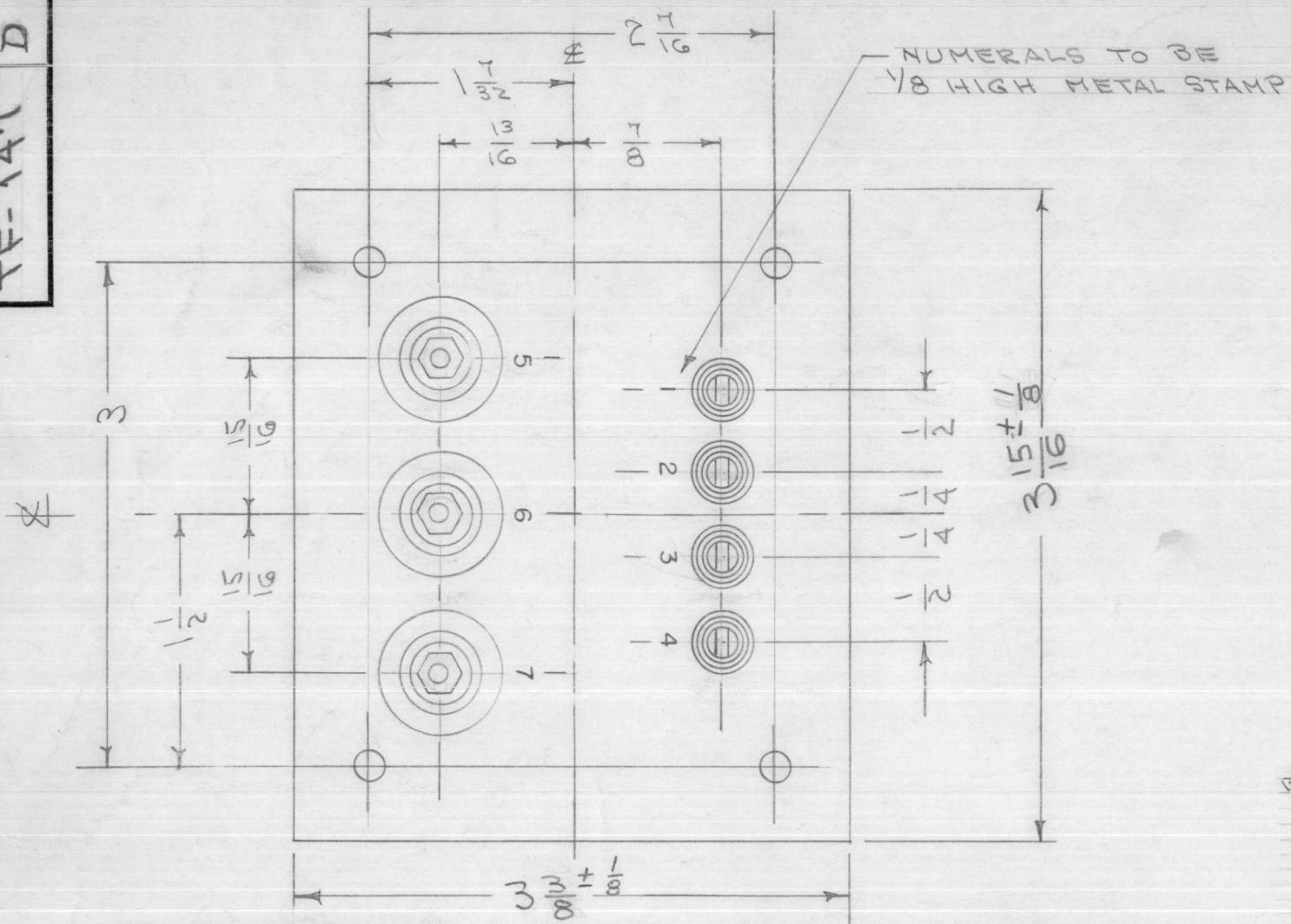
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
A	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572			

TOLERANCES		SCALE:
DEC. DIM. ±	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.	ASS'Y. NO.	DATE
1	RTM-2			10-16-58
1	RTM			5-23-58

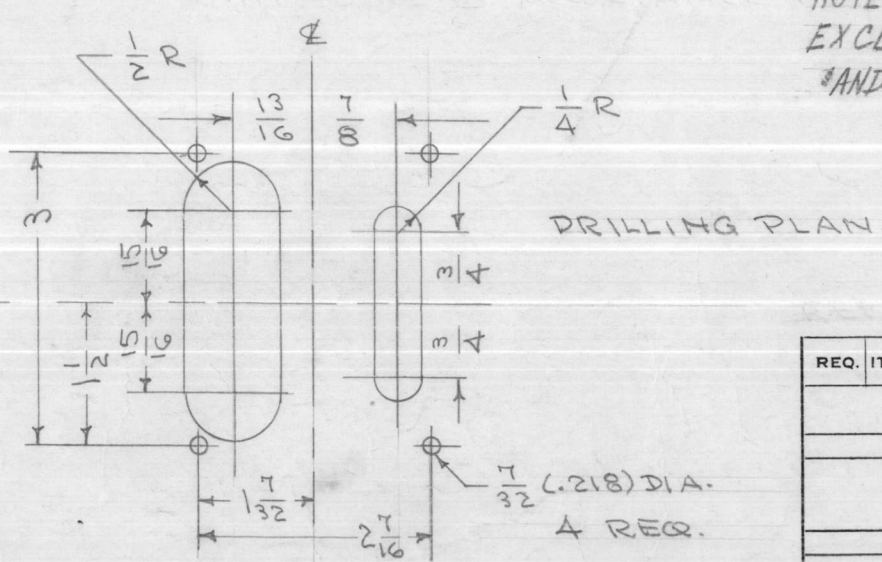
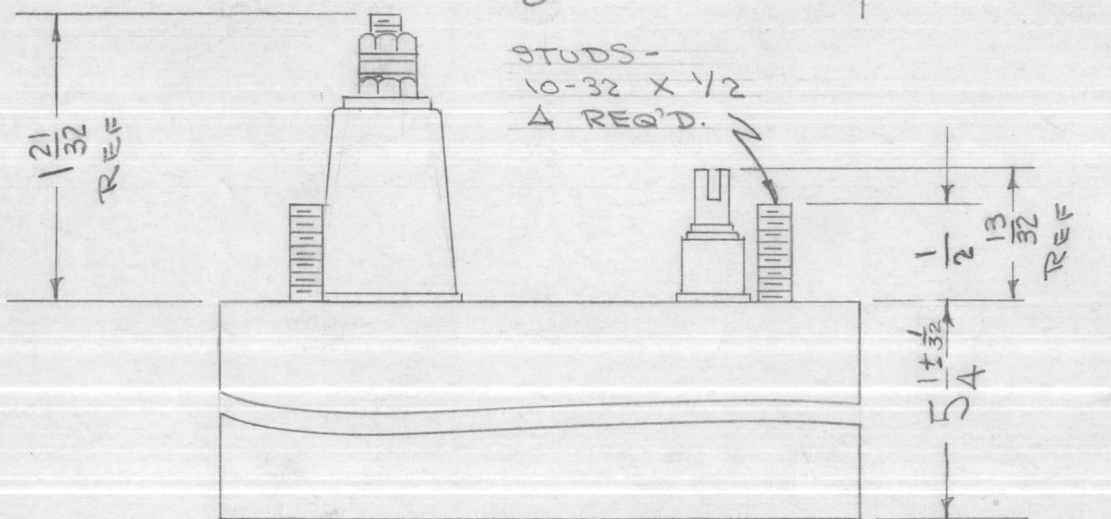
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	STOCK SIZE	TRANSFORMER, FILAMENT	
	MATERIAL		
	TYPE & TEMPER	DRAWN	CHECKED
	HEAT TREAT. SPEC.		
	FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.

TF-147 D



← SCHEMATIC DIAGRAM TO APPEAR ON END OPPOSITE TERMINALS

ELECTRICAL SPECIFICATIONS -
 PRIMARY - 115 V AC 50/60 ~ SINGLE PHASE
 230 V AC 50/60 ~ SINGLE PHASE
 SECONDARY - 5.0 V AC @ 15 A. CENTER TAPPED.
 INSULATION - SECONDARY WORKING VOLTAGE: 7000 V PEAK.
 ELECTROSTATIC SHIELD SHALL BE INSERTED (FOIL).
MECHANICAL SPECIFICATIONS -
 CASE - HERMETICALLY SEALED RECTANGULAR STEEL CASE.
 FINISH - S-115 T.M.C SMOOTH GREY ENAMEL (EXCEPT TERM. END.)
 SIZE - 3 3/8" X 3 15/16" X 5 1/4" HIGH EXCLUSIVE OF TERMINALS.



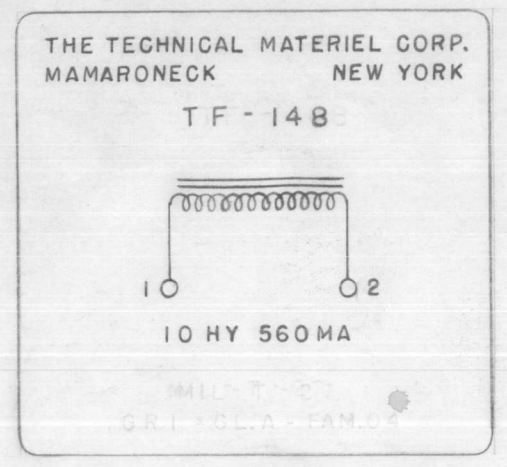
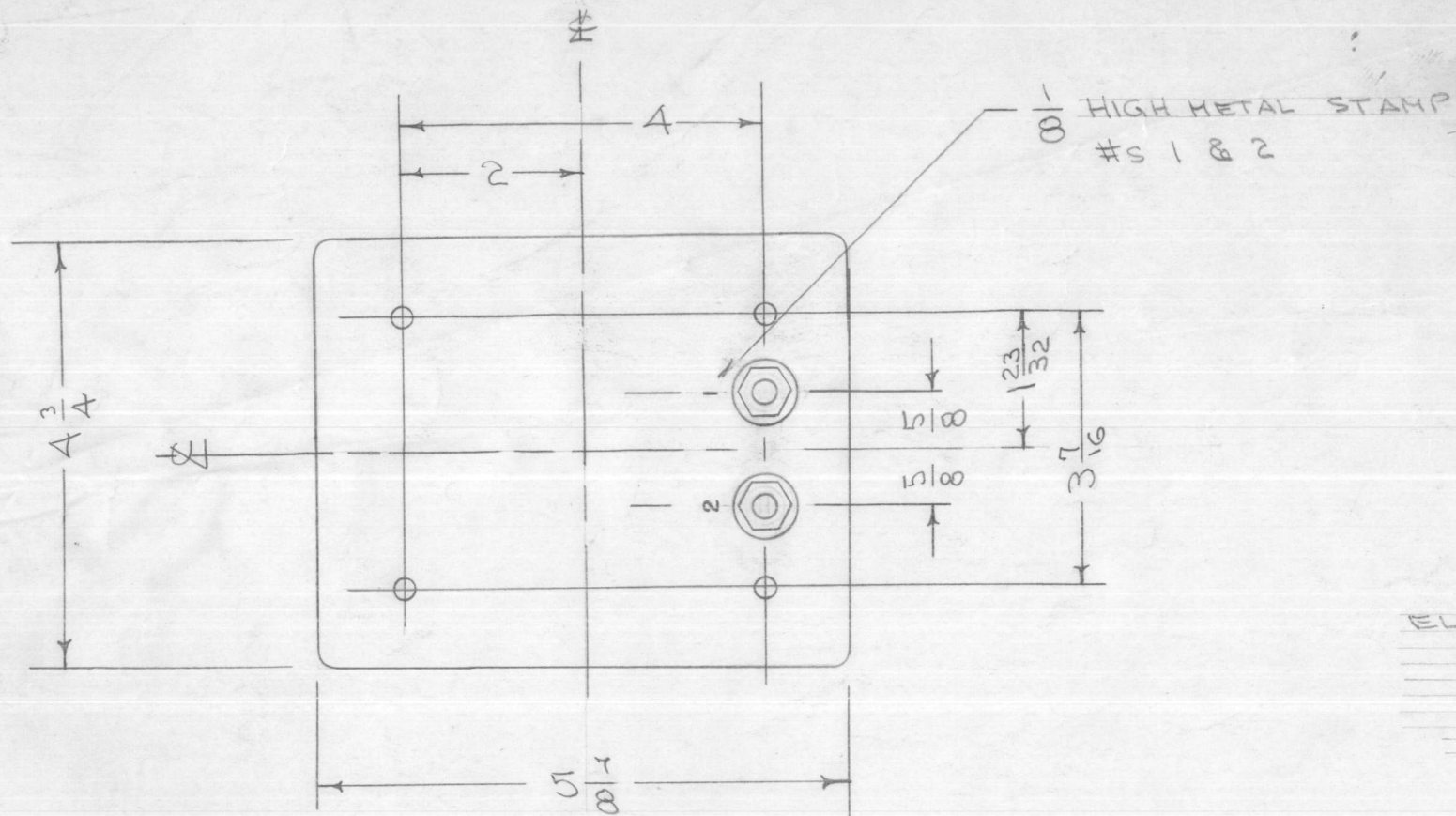
NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPE T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED

D	TOL ADDED, 3 7/8 WAS 3 15/16	9/19/67	18494	ENJ		EFM	
C	ON PICT. CHGD REF DIMS 13/32 WAS 1/16. 1-21/32 WAS 1/8	9/26/63	10052				
B	NOTE ADDED (MIL T-27-A)	6-29-60	2572				
A	DIM CHGD FROM 3-7/8 TO 3-15/16 AS PER BX-100-15	1/9/58	1	16			
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE:					
DEC. DIM. ±		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.					
FRAC. DIM. ±		REMOVE ALL BURRS AND SHARP EDGES					
ANGULAR DIM. ±							

REQ. PER UNIT	RTP-2 RTP	PROJECT NO.	ASS'Y. NO.	DATE
				10-22-58 5-23-58
USED ON				

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
STOCK SIZE		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
MATERIAL		TRANSFORMER, FILAMENT POWER	
		CDD. 6-7-55	A. J. J.
TYPE & TEMPER		DRAWN	CHECKED
HEAT TREAT. SPEC.		FINAL APPROVAL	
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
		TF-147 D	

TF-148 B

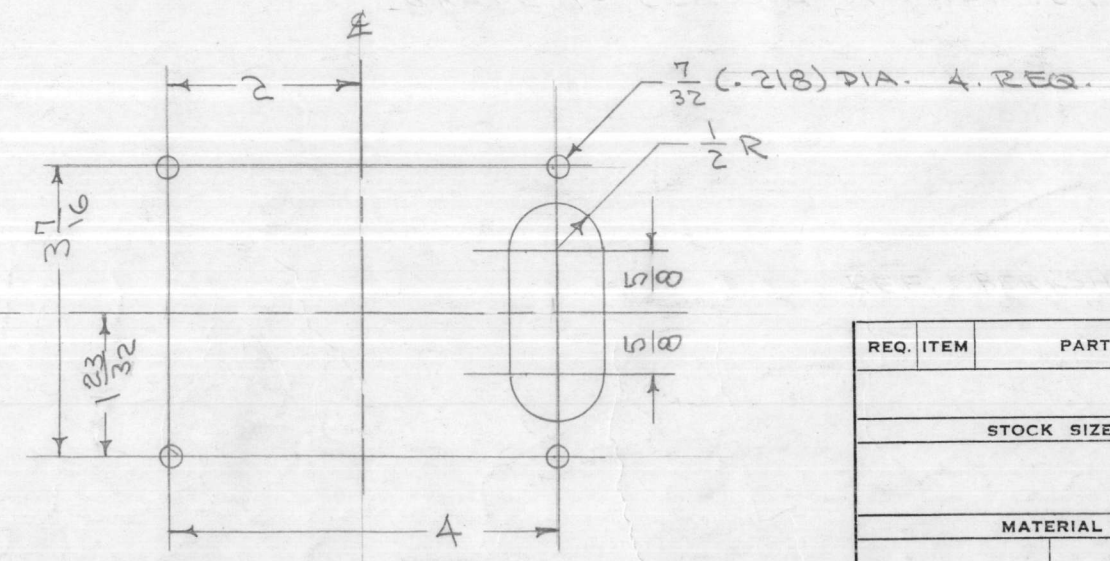
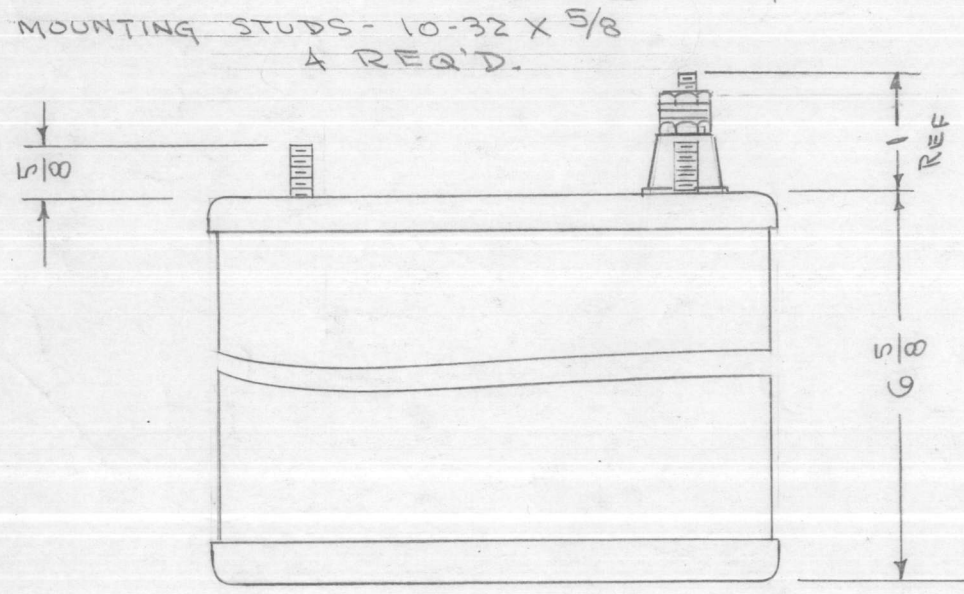


SCHEMATIC DIAGRAM TO APPEAR ON END OPPOSITE TERMINALS.

ELECTRICAL SPECIFICATIONS -
 INDUCTANCE - 10 HY @ FULL LOAD.
 D.C. CURRENT - 560 MA.
 D.C. RESISTANCE - LESS THAN 60 Ω
 INSULATION - MAX. DC. OPER. VOL.: 4000 V.

MECHANICAL SPECIFICATIONS -
 CASE - HERMETICALLY SEALED RECTANGULAR STEEL CASE.
 FINISH - S-115 T.M.C. SMOOTH GREY ENAMEL. EXCEPT TERMINAL END.
 SIZE - 4 3/4" X 5 7/8" X 6 5/8" HIGH, EXCLUSIVE OF TERMINALS.

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



ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572			WJ
A	1	MTG. DIM. CHANGED	10/28/55	1			A.J.J.

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	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
	RTP			5-23-58
USED ON				

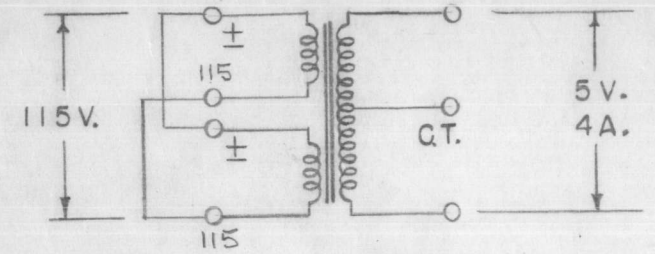
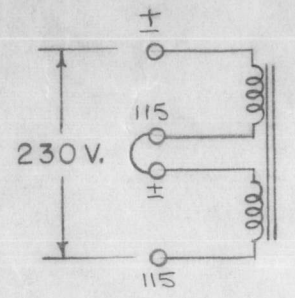
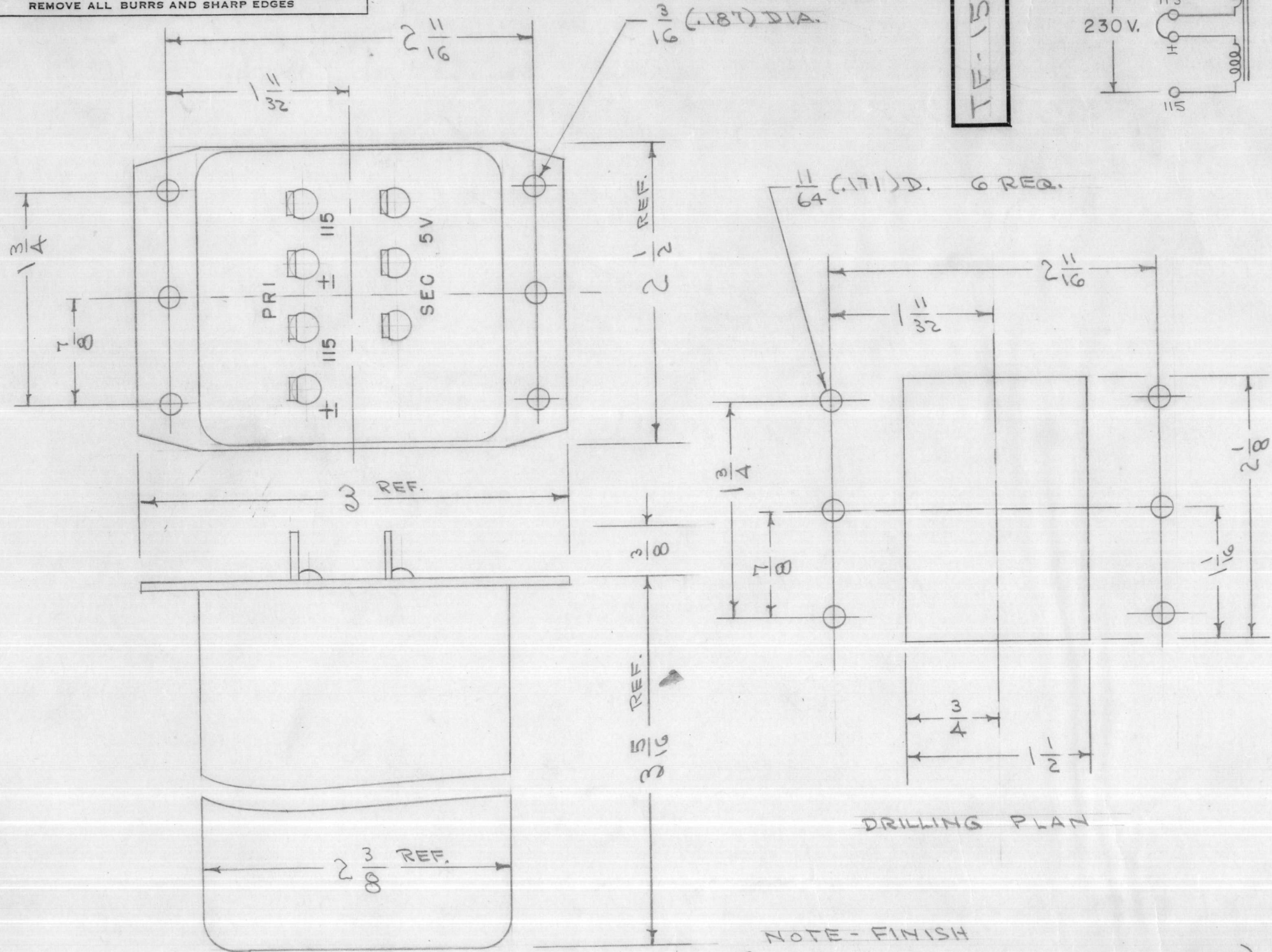
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	STOCK SIZE	REACTOR, FILTER	
	MATERIAL		
	TYPE & TEMPER	HEAT TREAT. SPEC.	FINAL APPROVAL
		DRAWN	CHECKED
		FINISH & SPEC. NO.	

Handwritten notes and signatures: O.I.P., 10/28/55, A.J.J., TF-148 B

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

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

TF-153 A



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

NOTE:
CASE - METAL
MTG - HOLES

DRILLING PLAN

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

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

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

A	1	NOTE ADDED	9-2-55	1	11	ASD	A.J.J.
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE:				
ALL OTHERS	DEC. DIM. ±	FRAC. DIM. ±	A	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.			

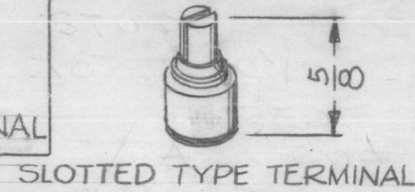
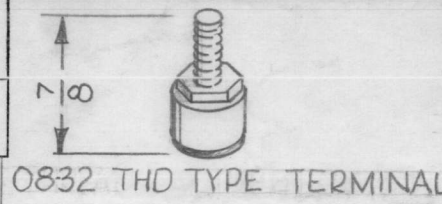
1	FFR-DPH	333	A-854	10-18-54
REV.	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
1	FFR-DPH	333	A-854	10-18-54
2	FFR-DPH	333	A-854	10-18-54
3	FFR-DPH	333	A-854	10-18-54

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP.	
		MAMARONECK, NEW YORK	
		TRANSFORMER, FIL. POWER	
		CDD. 10/18/54	
		DRAWN	ELEC. DES. APP. MECH. DES. APP.
		checked	A. J. J.
		CHECKED	FINAL APPROVAL
		SEE NOTE	
		FINISH & SPEC. NO.	

TF-153 A

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

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



G
TF-155

HARDWARE TO BE SUPPLIED BY TMC:

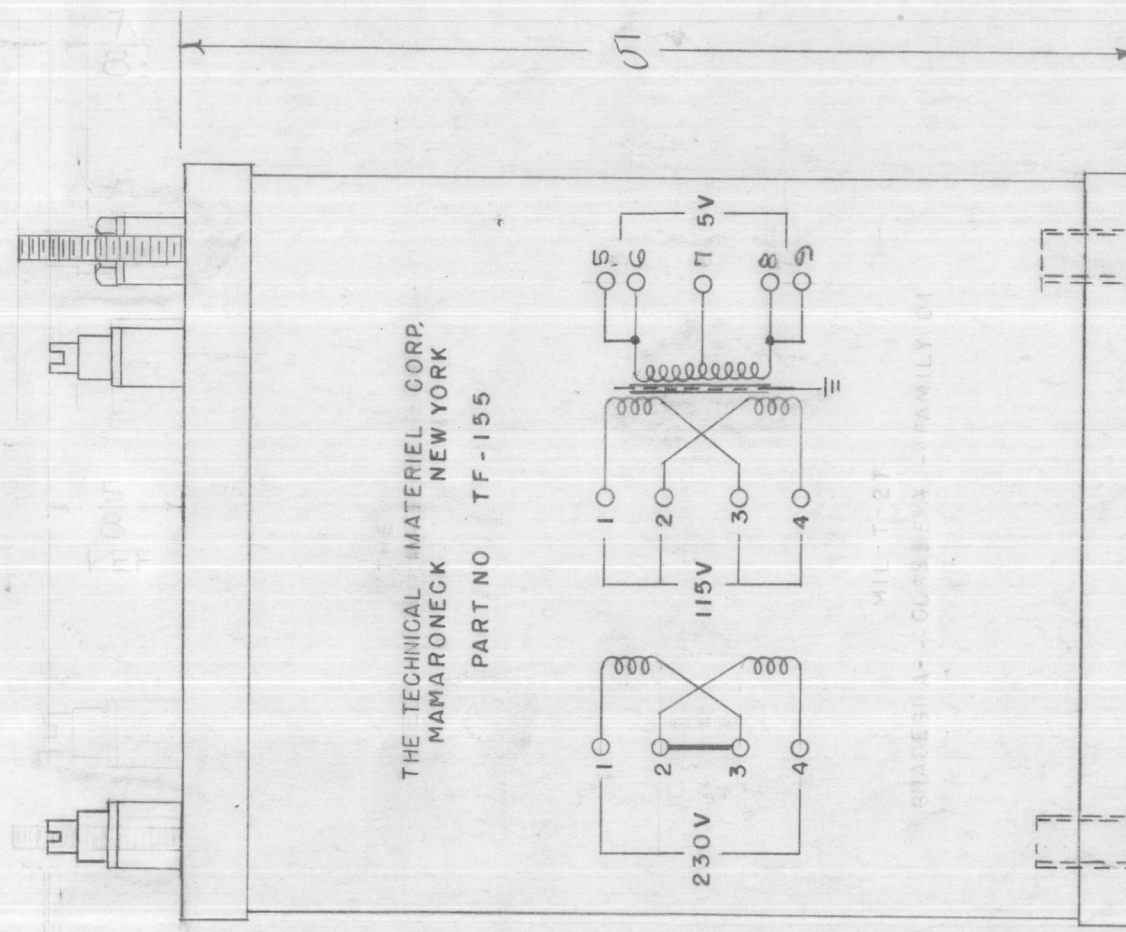
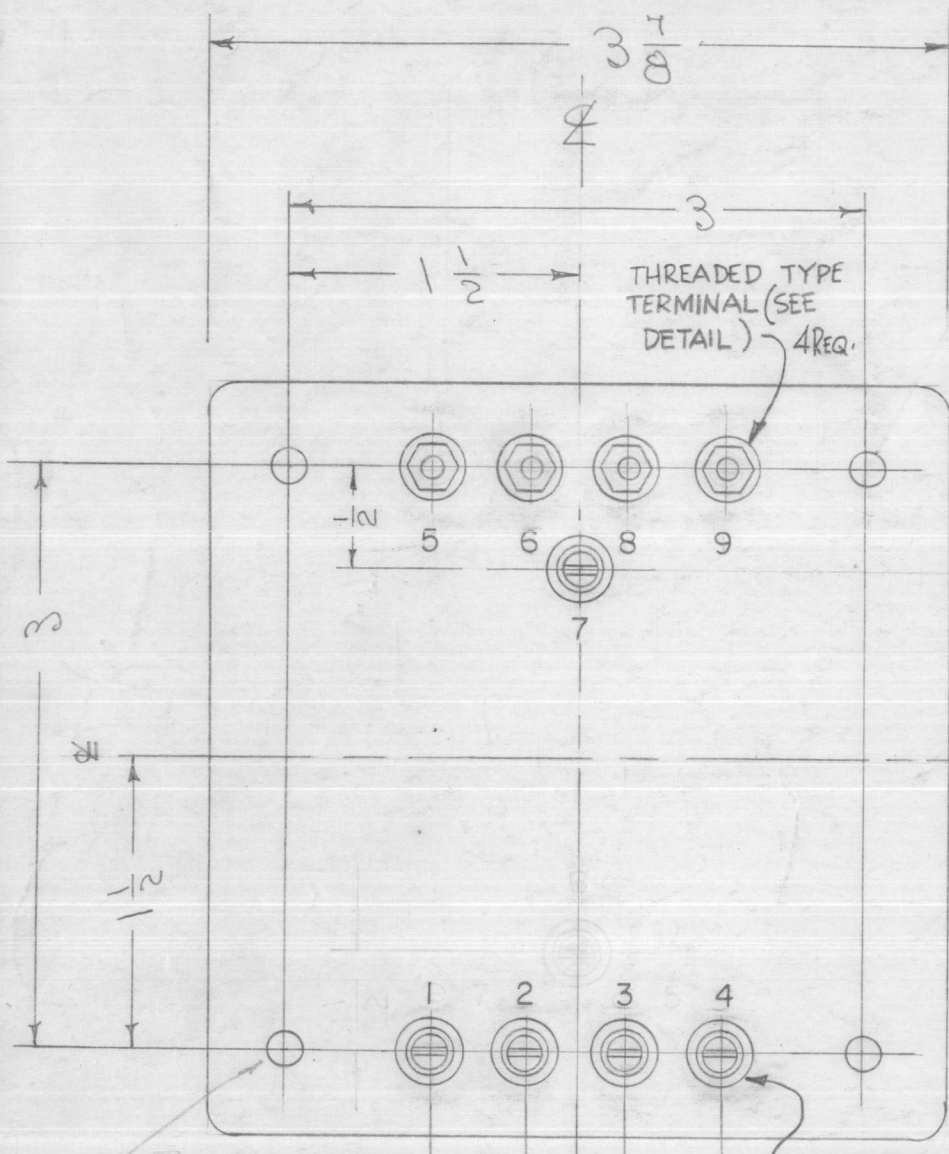
- ④ LWE10MRN
- ④ NTH1032BN12
- ⑧ FWO8HBN
- ④ LWS08MRN
- ④ NTH0832BN10

ELECTRICAL SPECIFICATIONS-
 PRIMARY- 115/230 VAC
 50/60 CPS
 SINGLE PHASE

SECONDARY- 5V AT 30 AMP.
 INSULATION- 1500 V PEAK.
 ELECTROSTATIC SHIELD SHALL BE INSERTED (FOIL).

MECHANICAL SPECIFICATIONS:
 CASE - STEEL
 COLOR - GRAY (EXCEPT TERMINAL END)
 STUDS - 10-32 X 1/2 LONG
 INSERTS - 10-32 X 1/2 DEEP

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



THE TECHNICAL MATERIEL CORP.
 MAMARONECK NEW YORK
 PART NO TF-155

MIL-T-27
 CLASSIFICATION - FAMILY OF

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

STUDS 10-32x1/2Lg. (4 REQ.) → 1/2 1/4 1/4 1/2 ←
 SLOTTED TYPE TERMINAL (SEE DETAIL) (5 REQ.)

METAL STAMP AS SHOWN 1-2-3-4-5-6-7-8-9

SCHEMATIC TO BE AS ABOVE AND ON SIDE SHOWN.

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
G	1	THD SIZE ADDED HDW ADDED	3-30-54	16033	WJO	WJO	
F	1	TERM. UPDATED, DIMS. ADD.	8-8-64	12069	WJB	WJB	
E	1	ADDED 7/8 DIM. 5/8 DIM. RELOCATED	9/26/63	10054	WJB	WJB	
D	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572	WJB	WJB	
C	1	TERM. LUGS REVERSED	3-10-56	3	WJB	WJB	
B	1	REDRAWN - CASE SIZE ADDED	9/14/54	2	WJB	WJB	

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

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

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

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

NOTICE TO PERSONS RECEIVING THIS DRAWING

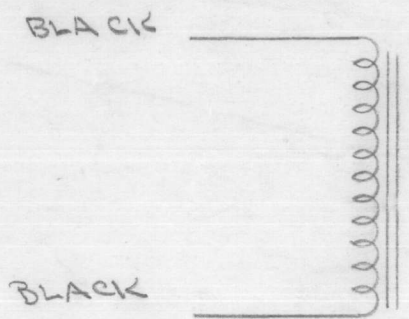
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MAMARONECK, NEW YORK

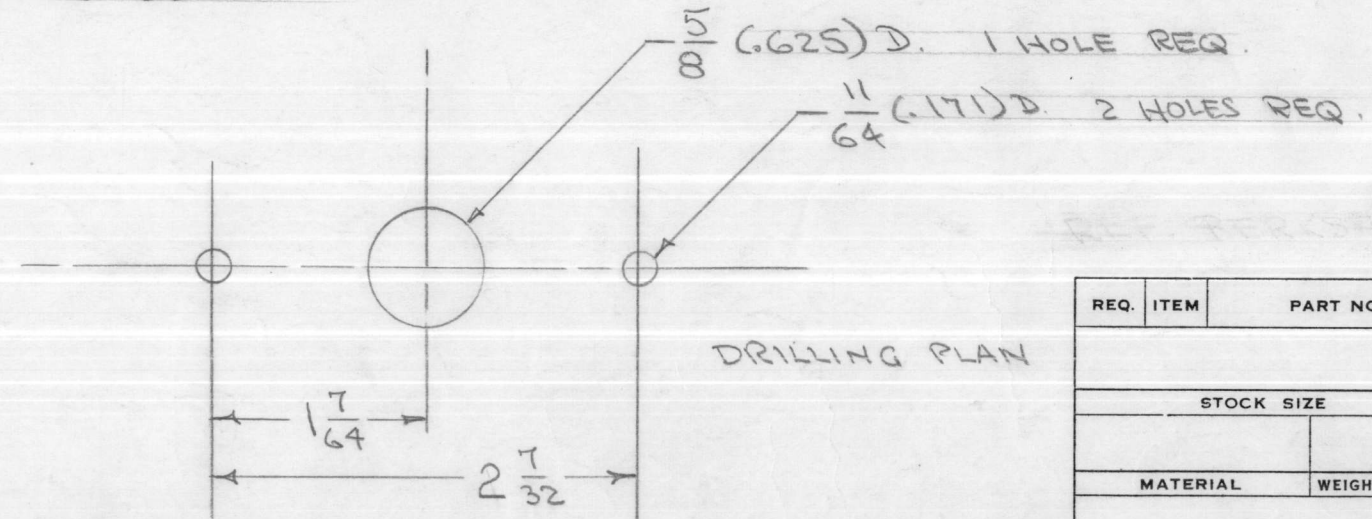
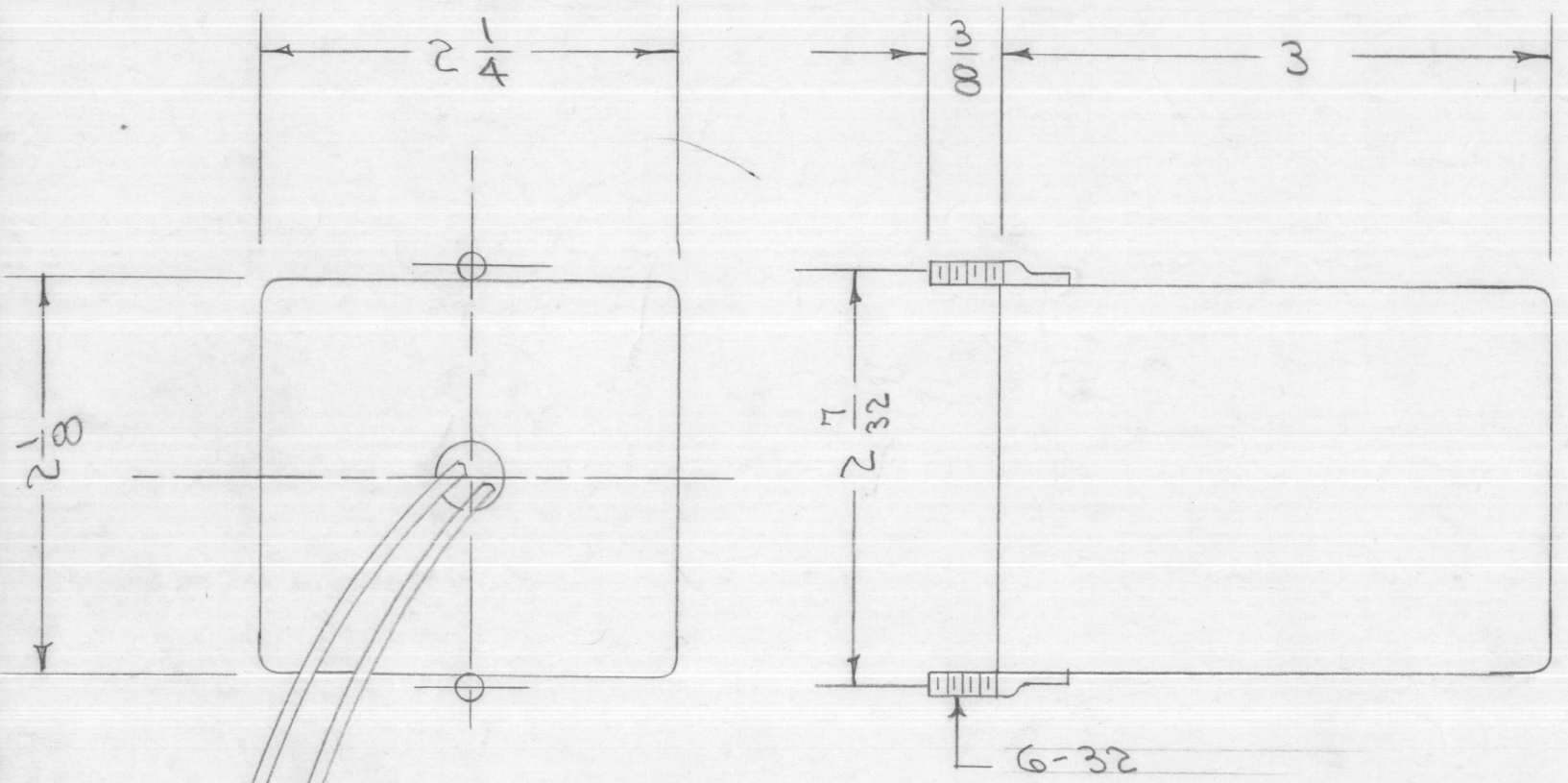
TF-158 A

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

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



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



REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE			FILTER CHOKE	
MATERIAL		WEIGHT PER PC.		
TYPE & TEMPER			CDD. 3-8-55	
HEAT TREAT. SPEC.			DRAWN	ELEC. DES. APP. MECH. DES. APP.
FINISH & SPEC. NO.			5-115 T.M.C. GREY	THH G.T.O FINAL APPROVAL

A	1	2.7/32 DIM. WAS 1.7/32	8/30/61	5519	A.H.	AB	
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE: 5/16" = 1"				
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± 1/64 ANGULAR DIM. ±		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.				

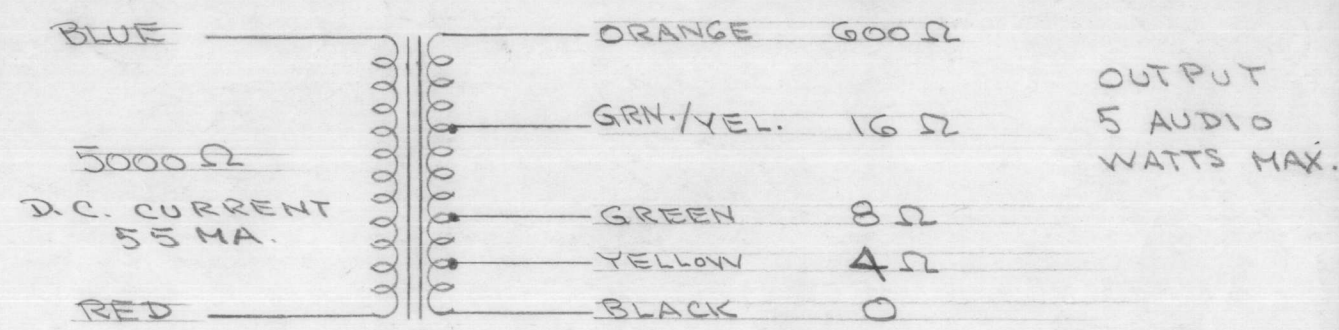
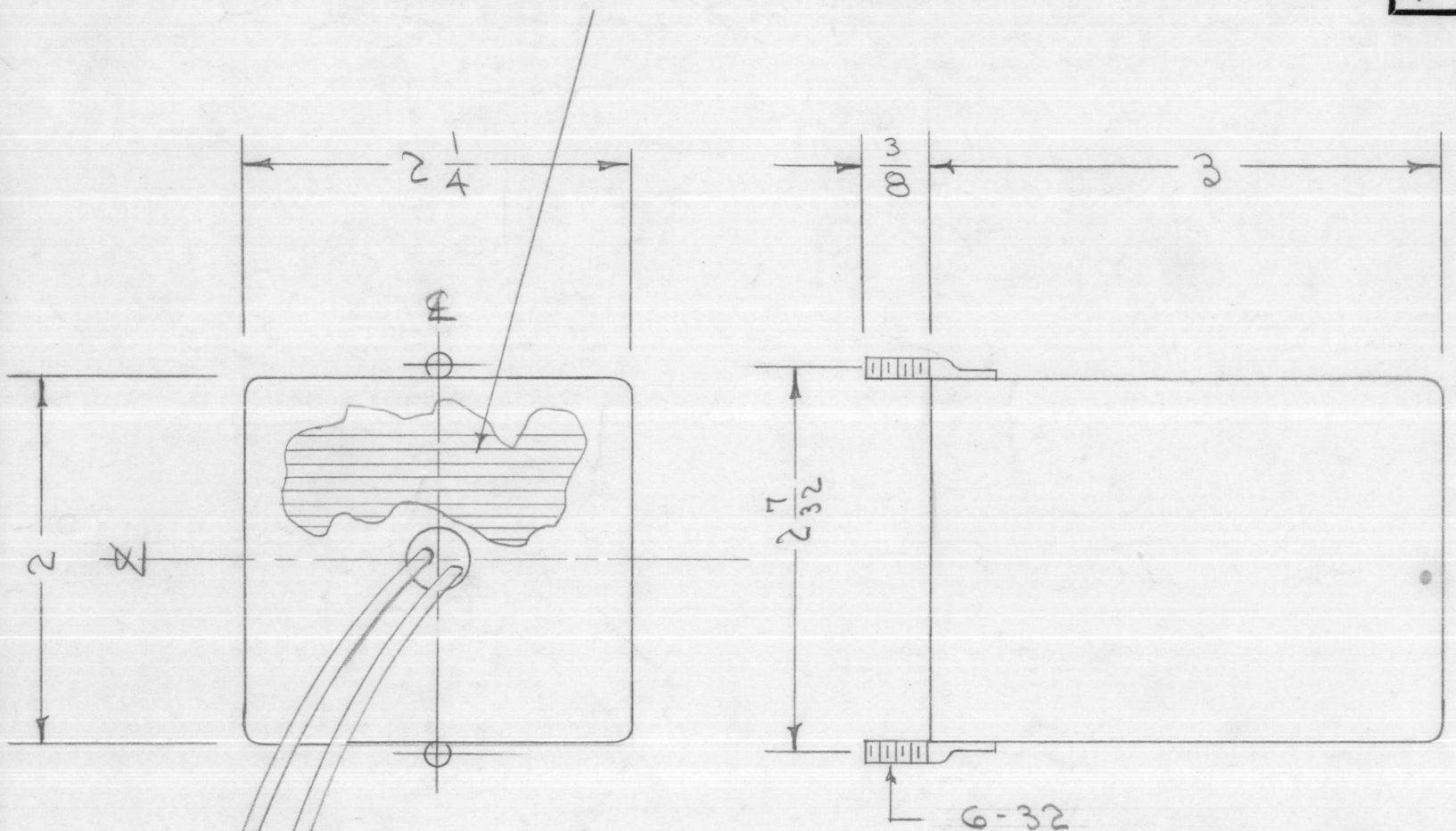
1	GPR		6-17-55
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.

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

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

TF-159 B

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



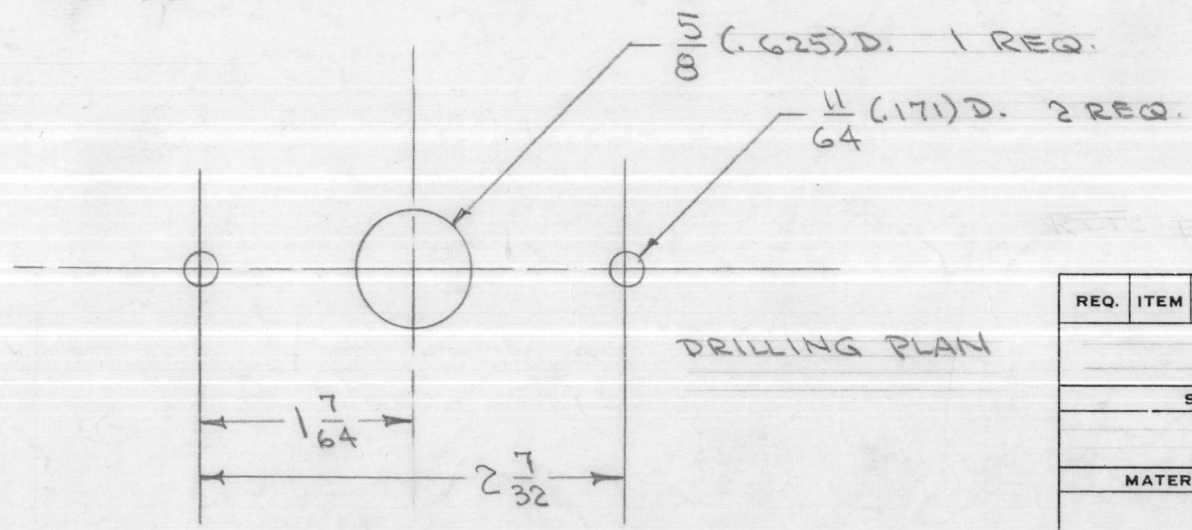
AUDIO RESPONSE - ±3db. 100-10,000 ~
INSULATION TEST - 1000 V.

LEAD LENGTHS

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

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

7 LEADS - SEE CHART FOR LENGTHS



ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	LEAD LENGTHS ADDED	8/8/56	2	EDS	WOC	PLK
A	2	LAMINATION NOTE ADDED	5/6/56	1	EDS	HH	A.J.S.
A	1	2" WAS 2 1/8"					

TOLERANCES		SCALE:
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± 1/64 ANGULAR DIM. ±	A

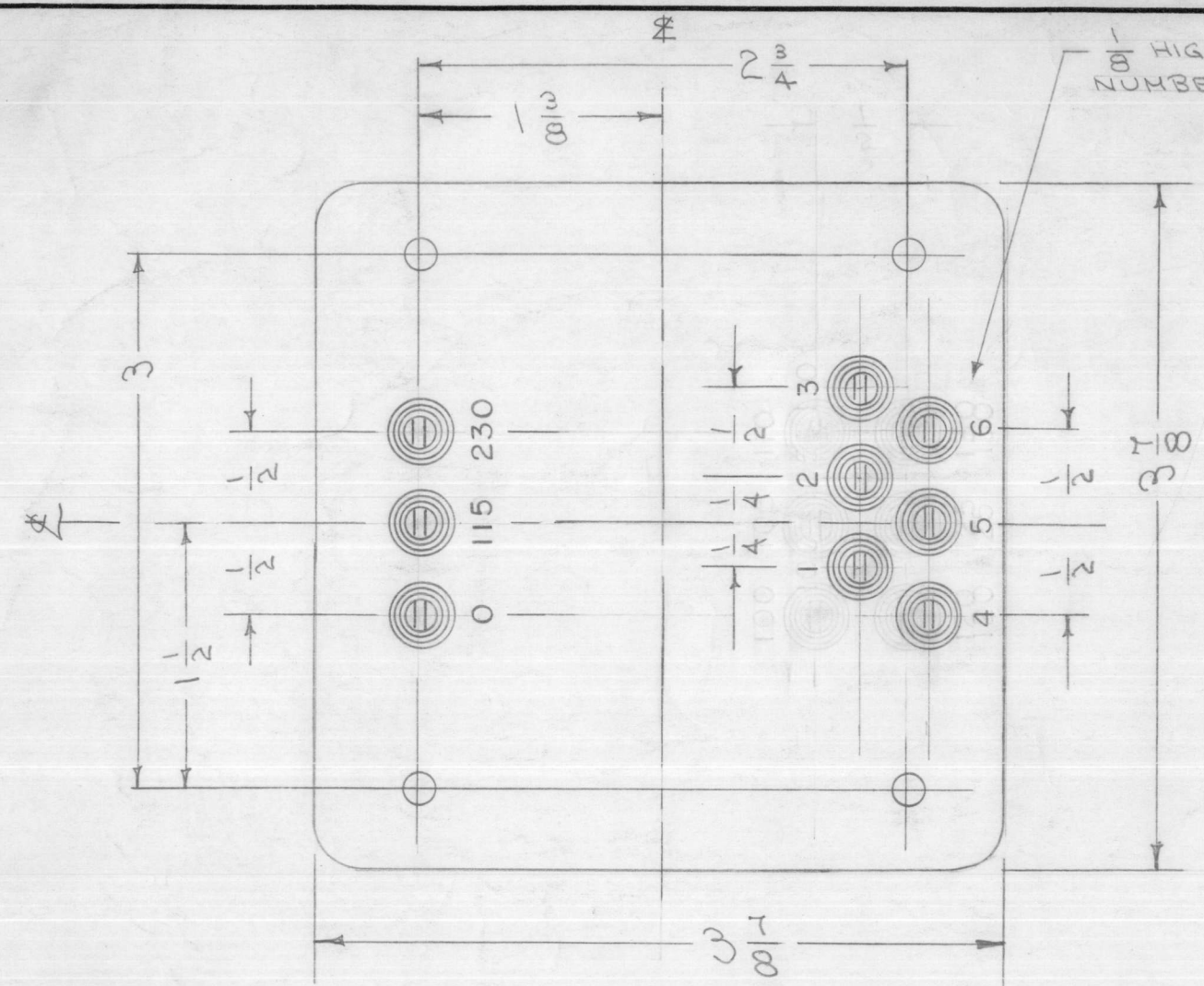
DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

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

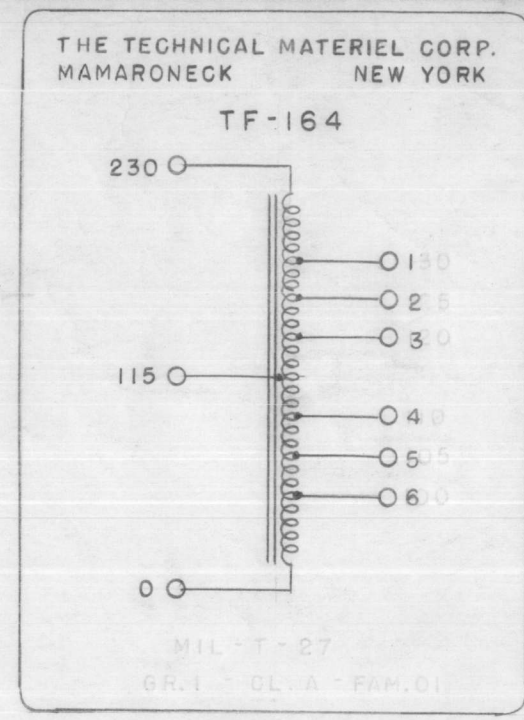
USED ON

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE		TRANSFORMER, OUTPUT	
MATERIAL		WEIGHT PER PC.	
TYPE & TEMPER		C.O.D. 2-8-55	
HEAT TREAT. SPEC.		DRAWN: HH ELEC. DES. APP. G.T.O. MECH. DES. APP. WOC	
FINISH & SPEC. NO.		CHECKED: HH FINAL APPROVAL: G.T.O.	
		TF-159 B	

TF-164 A



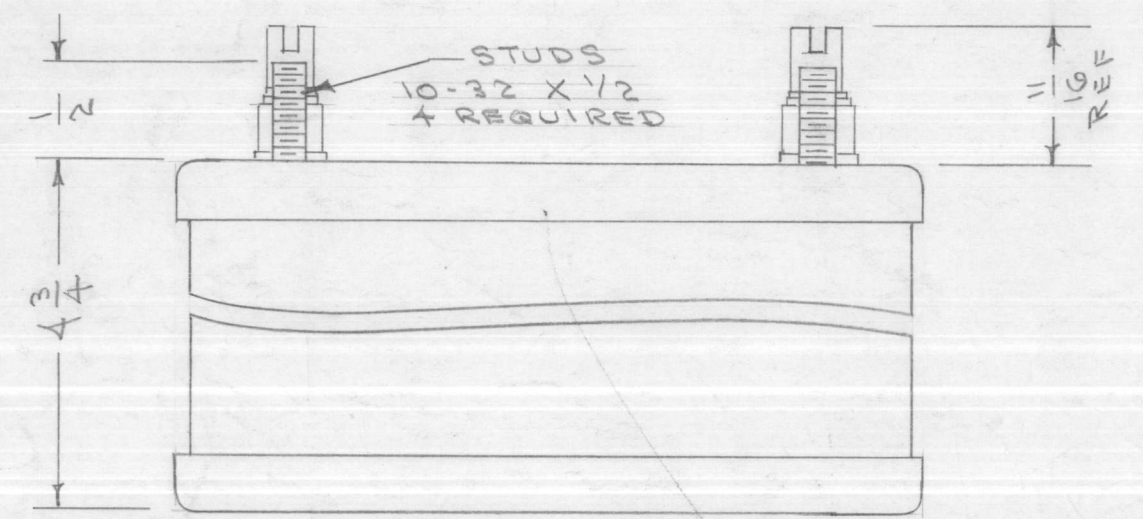
SCHMATIC DIAGRAM TO APPEAR ON END OPPOSITE TERMINALS.



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

MECHANICAL SPECIFICATIONS
 CASE - HERMETICALLY SEALED RECTANGULAR STEEL CASE.
 FINISH - S-115 T.M.C. SMOOTH GREY ENAMEL. (EXCEPT TERMINAL END)
 SIZE - 3 7/8" x 3 7/8" x 4 3/4" HIGH EXCLUSIVE OF TERMINALS.

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



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

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
	RTP-2 RTP			10-22-58 5-23-58
USED ON				

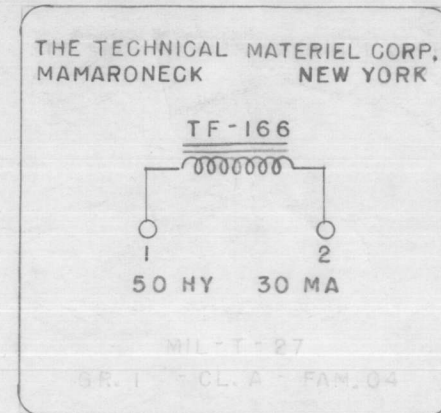
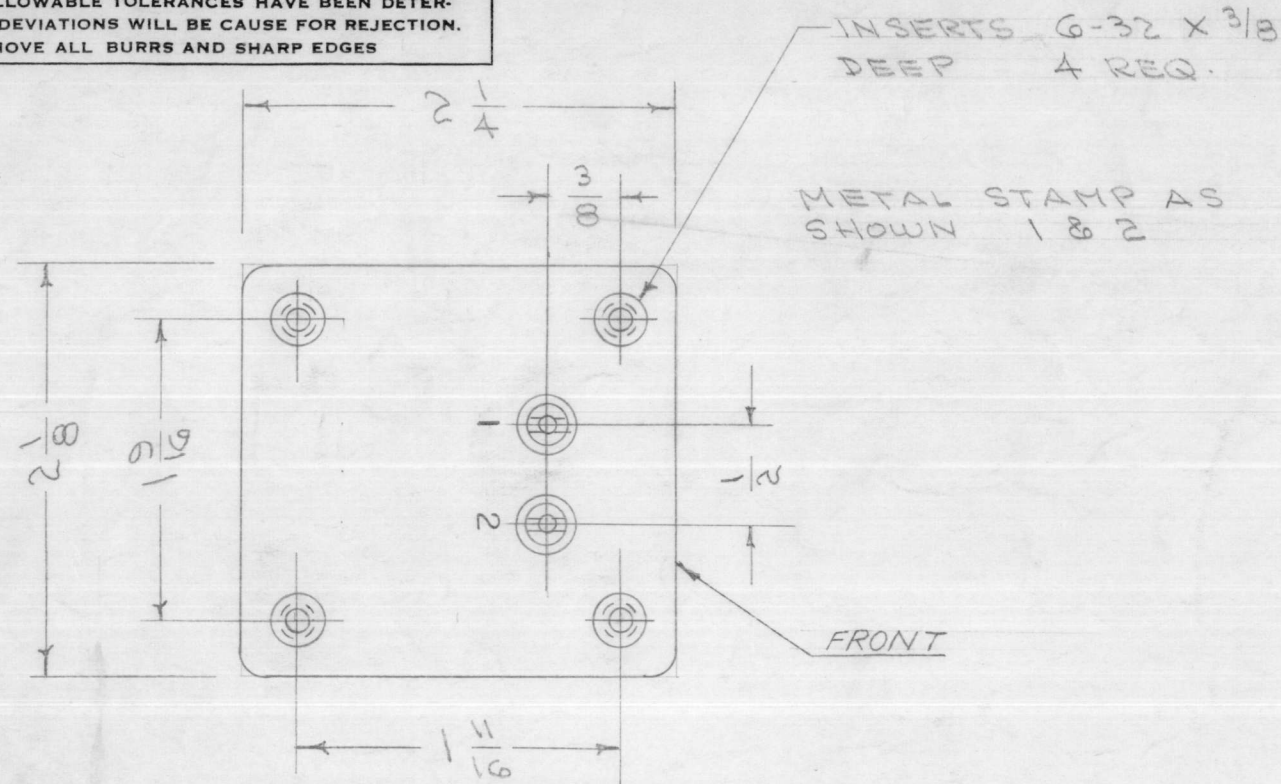
REQ. ITEM	PART NO.	DESCRIPTION		SYMBOL
STOCK SIZE		THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK		
MATERIAL		AUTOTRANSFORMER LINE VOLTAGE ADJUST		
TYPE & TEMPER		HEAT TREAT. SPEC.		FINAL APPROVAL
FINISH & SPEC. NO.		ELEC. DES. APP.		MECH. DES. APP.

CDD. C-1-55
 DRAWN: O.I.P.
 CHECKED: [Signature]
 FINAL APPROVAL: A.J.J.
 DATE: 10/26/58
 PART NO.: TF-164

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

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

TF-166 A



SCHEMATIC DIAGRAM TO APPEAR ON END OPPOSITE TERMINALS

FRONT

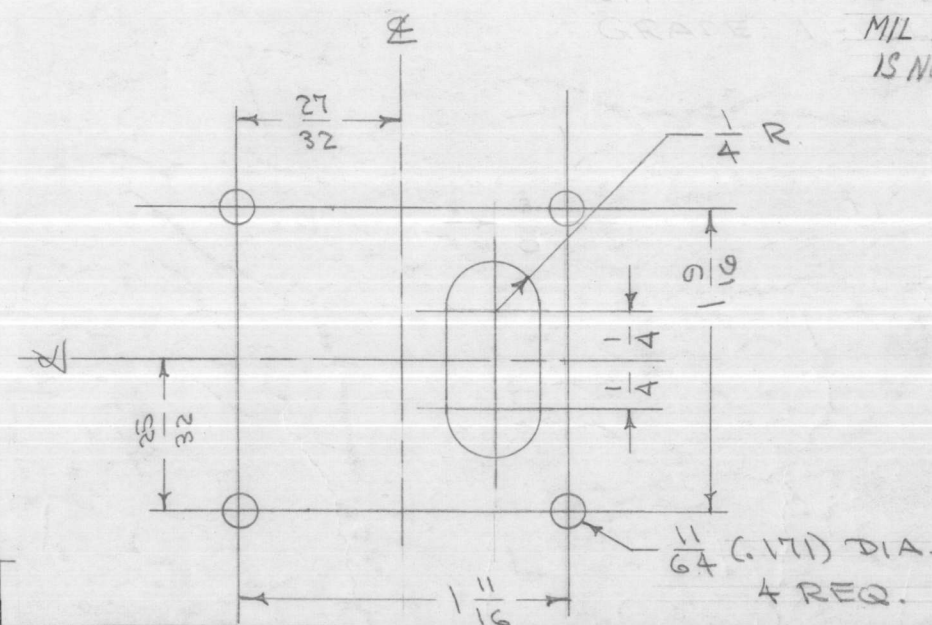
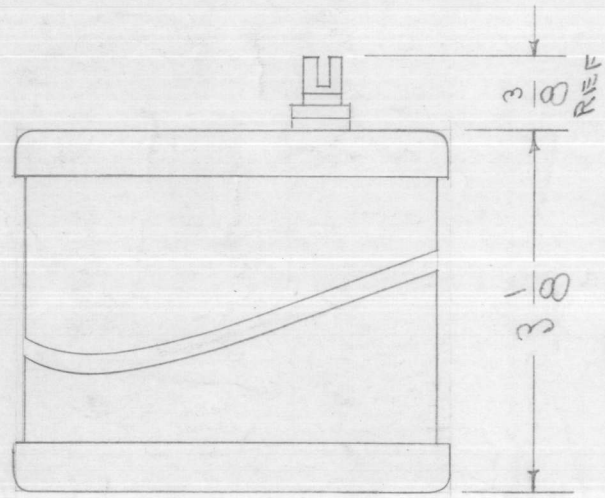
ELECTRICAL SPECIFICATIONS

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

MECHANICAL SPECIFICATIONS

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

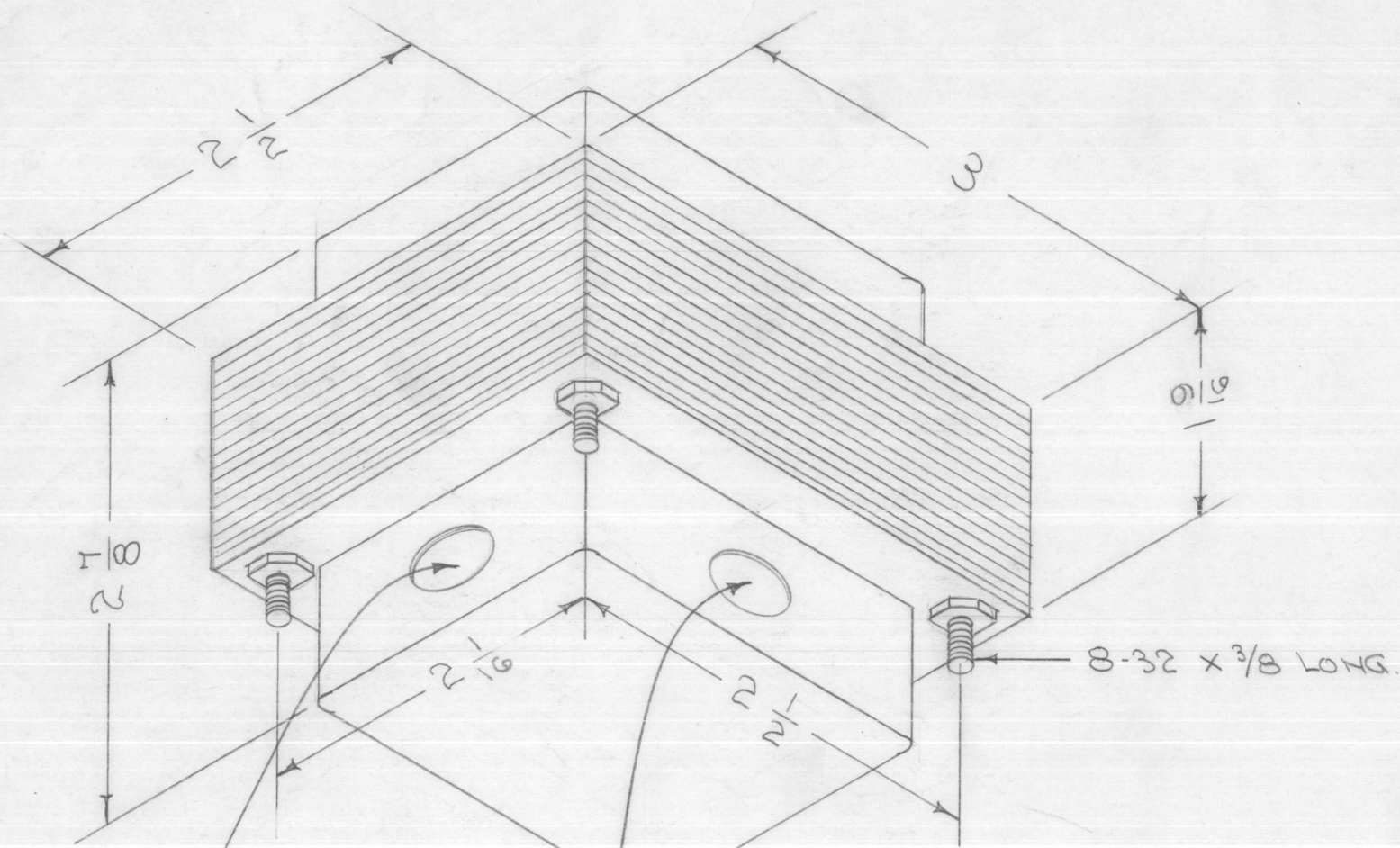
NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.



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

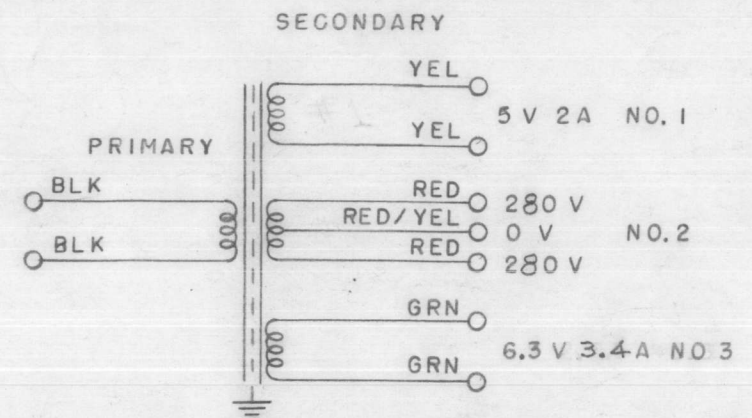
1	RTP-2 SPT-10K RTP RTC	AX-104	10-22-53
REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.
			DATE
USED ON			

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
#	#	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE	#	REACTOR, FILTER	
MATERIAL	WEIGHT PER PC.		
TYPE & TEMPER		ODD. 10-4-55	O.I.P. AME 10/26/55
HEAT TREAT. SPEC.		DRAWN	ELEC. DES. APP. MECH. DES. APP.
FINISH & SPEC. NO.		CHECKED	FINAL APPROVAL
			TF-166 A



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

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



ELECTRICAL SPECIFICATIONS

ELECTRO STATIC SHIELD.

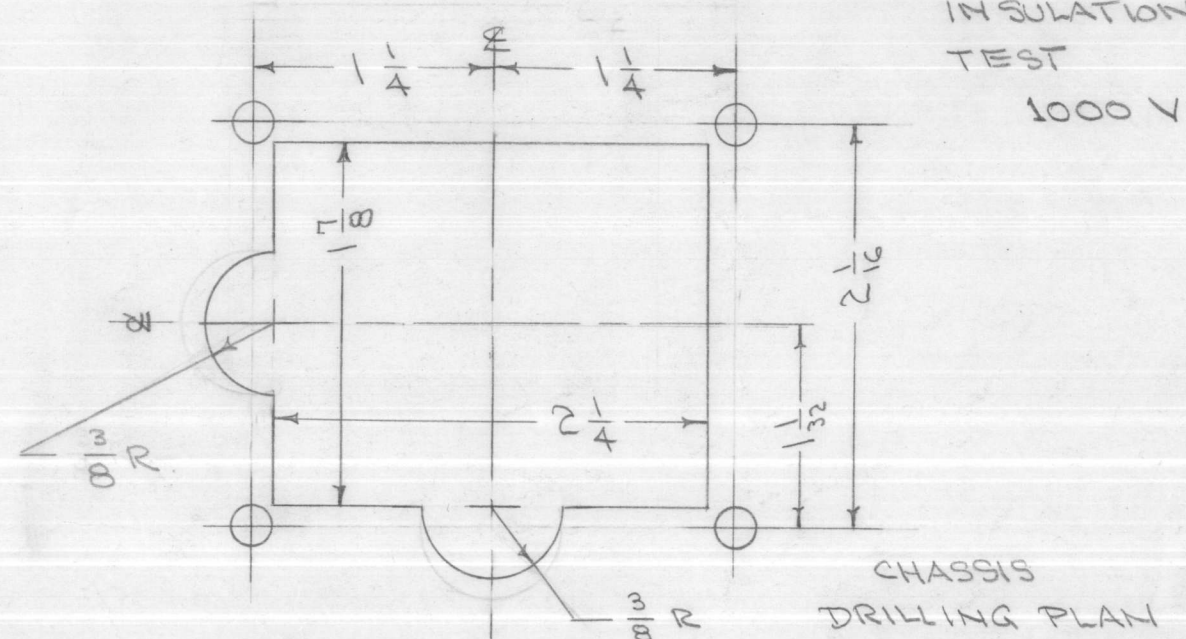
PRIMARY - INPUT 105/125V 50/60Hz (117V. NOM.)

SECONDARY - NO. 1 - 5V @ 2A.

NO. 2 - 280-0-280 V. RMS WITH FULL WAVE RECT. 5Y3G TO CAPACITOR INPUT FILTER. 280V DC AT 90 MA AT FILTER INPUT.

NO. 3 - 6.3V @ .3.4A.

INSULATION TEST
 1000 V.



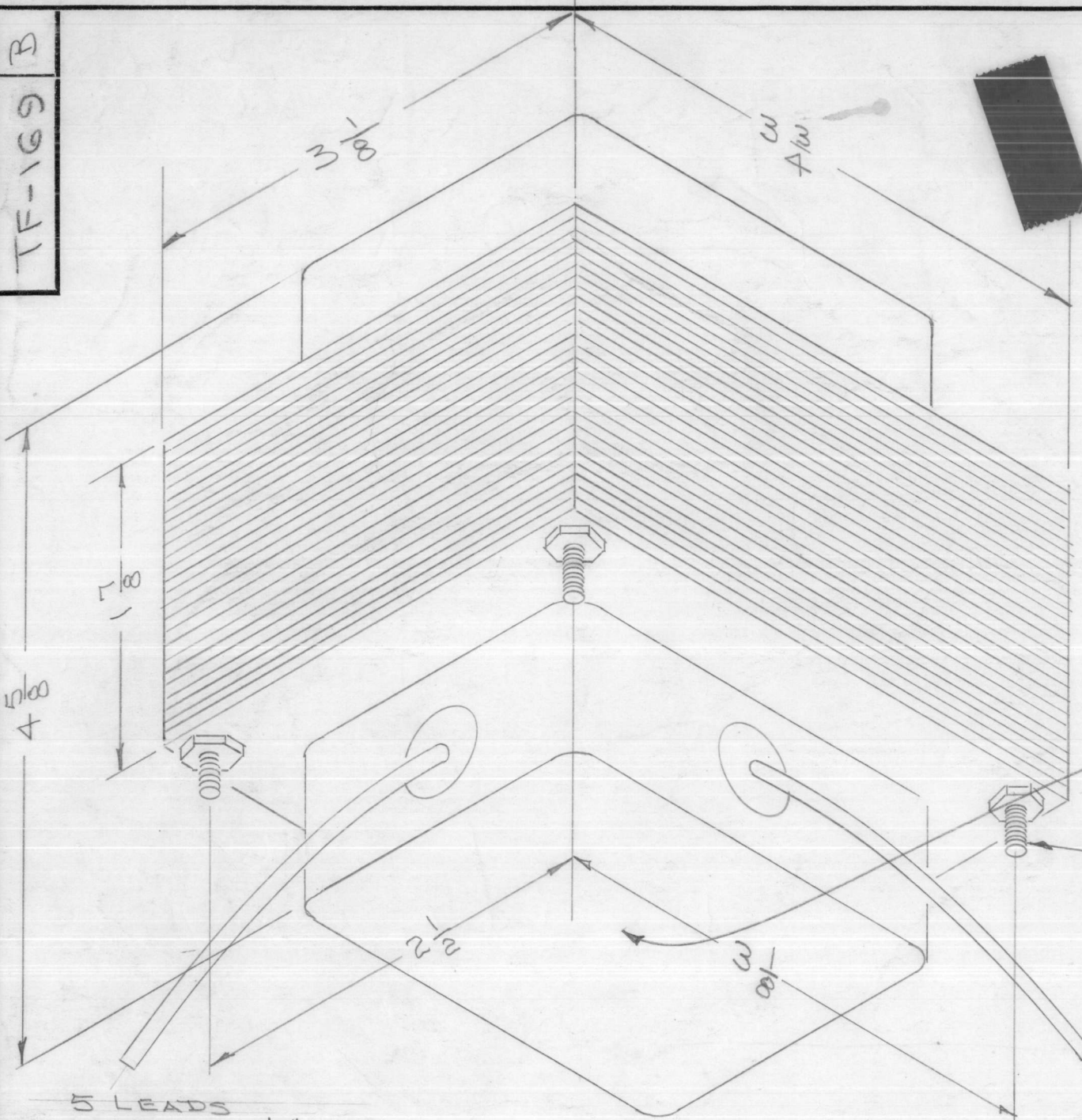
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	FINISH ADDED	7/21/56	2	CSB	##	##
A	2	3.4A was 2.5V/90MA was 60	6/14/56	1	JAL	##	##
A	1	280V was 250V					

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. ± 1/64		
ANGULAR DIM. ±		

1	GSB-1	459	5-17-56
REQ. PER UNIT	MODEL	PROJECT NO.	DATE
USED ON			

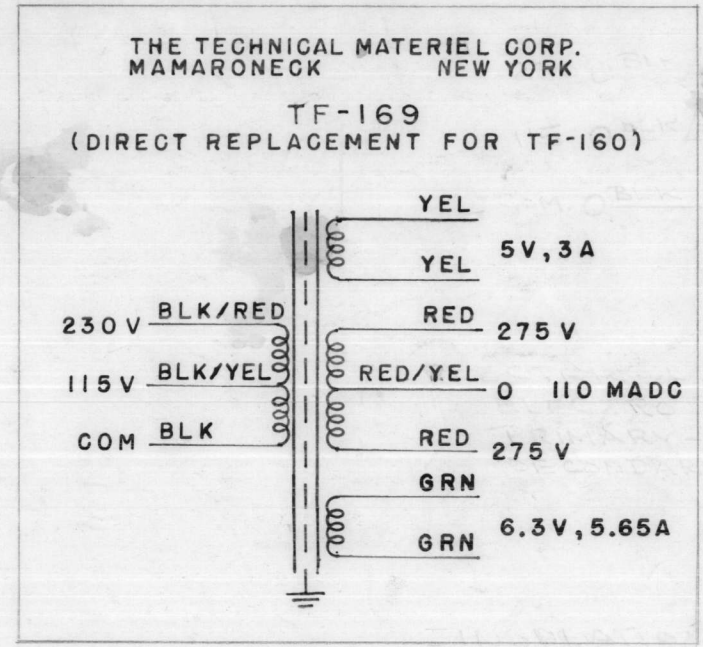
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
TRANSFORMER, POWER			
MATERIAL			
		COO 5115	JAL
		TYPE & TEMPER	HEAT TREAT. SPEC.
		5115	TMC SMOOTH GRAY.
		FINISH & SPEC. NO.	ELEC. DES. APP. MECH. DES. APP.
		DRAWN	CHECKED
		##	2B
		FINAL APPROVAL	
		A. J. J.	
		TF-168 B	

TF-169 B



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

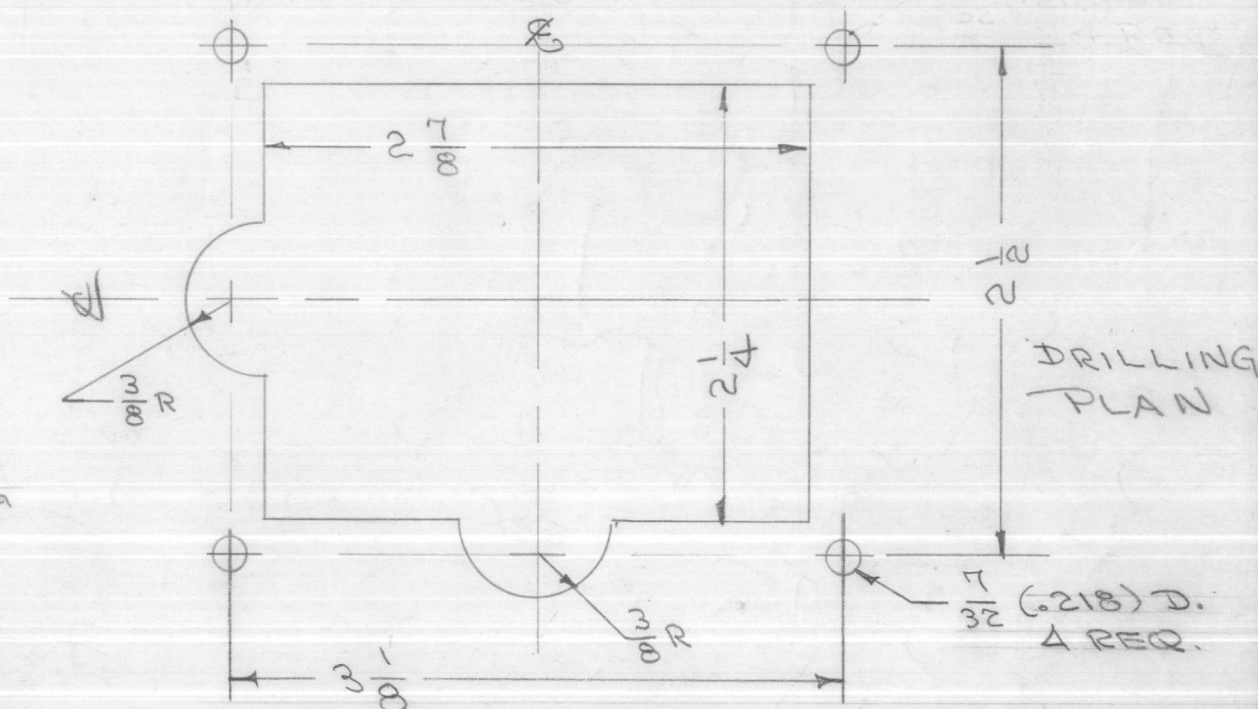
- 5 LEADS
- 1 RED 5 1/2" LONG
 - 1 RED 4 1/2" "
 - 1 YELLOW 5" "
 - 1 YELLOW 4" "
 - 1 RED/YEL 3 1/2" "



SCHEMATIC DIAGRAM TO BE IN BLACK,
PLACED THIS END.

ELECTRICAL SPECIFICATIONS:

ELECTRO STATIC SHIELD
PRI. INPUT - 115/230V, 50/60 ~
SEC - 5V @ 3A
275-0-275 V RMS WITH
FULL WAVE RECTIFIER
5U4G TO CAPACITOR
INPUT FILTER 275 VDC
AT 110 MA.
6.3 V @ 5.65 A
INSULATION TEST - 1000V.



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

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	SCHEMATIC ADDED	10/15/56	2	CRD	P.L.X.	A.J.J.
A	2	BLK/YEL & BLK/RED were 9"	9/9/56	1	JAR	P.L.X.	A.J.J.
A	1	BLACK was 9"					
TOLERANCES			SCALE:				
DEC. DIM. ±			MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES				
FRAC. DIM. ±							
ANGULAR DIM. ±							
A			1	GPR	297	9-7-56	
			REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
			USED ON				

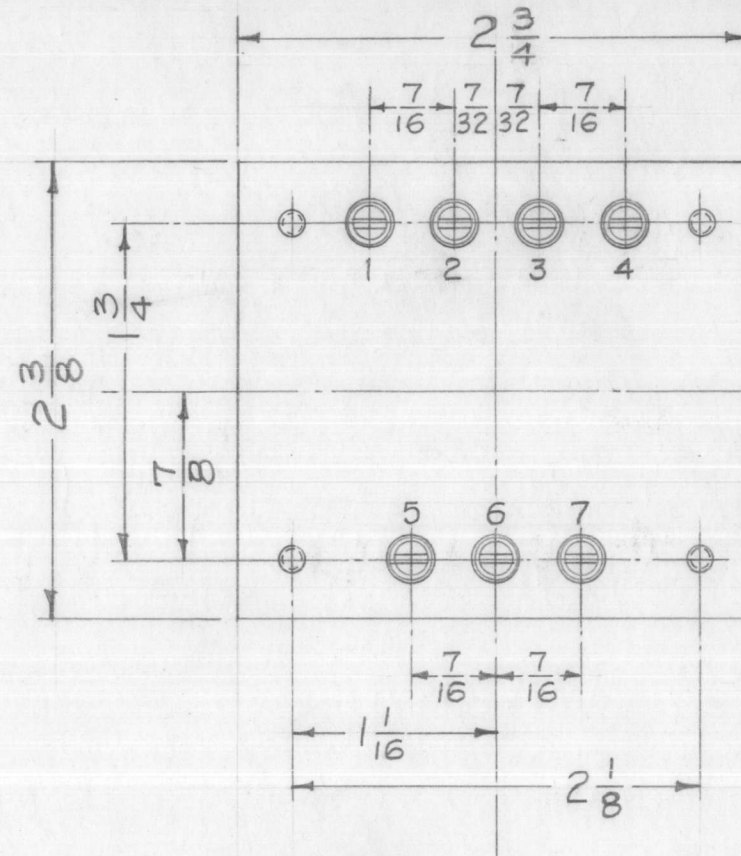
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK			
TRANSFORMER, POWER			
MATERIAL			
TYPE & TEMPER		HEAT TREAT. SPEC.	
(S115) TMC GRAY			
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
		JAR	CRD
		P.L.X.	UR
		CRB	A.J.J.
		TF-169	B

TF-176 B

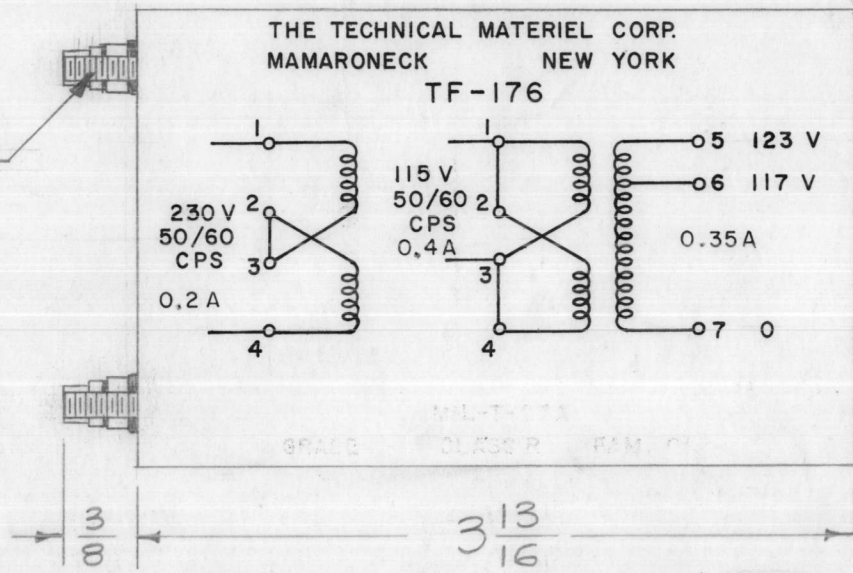
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Property of:
THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK



Stamp Case as Shown - Black Gothic



6-32 Thds.

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

ELECTRICAL DATA

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

MECHANICAL DATA

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

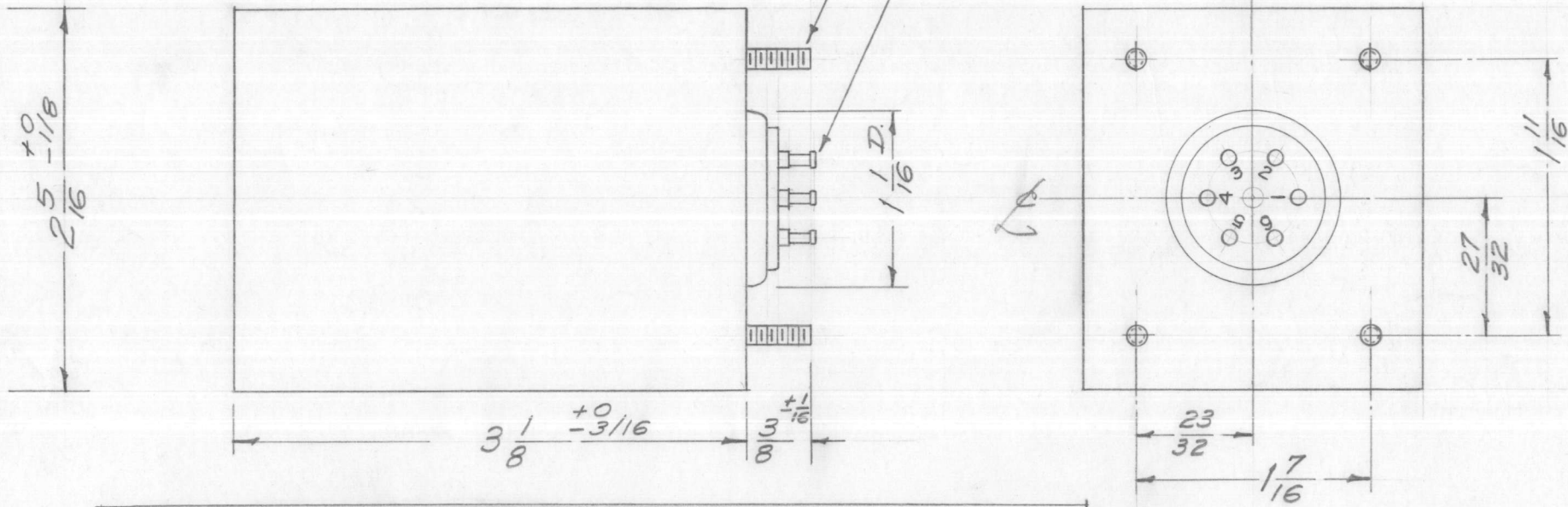
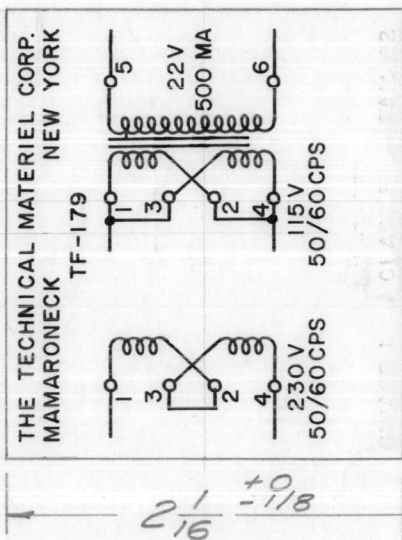
This Transformer shall be in accordance with MIL-T-27A and Amendment Grade 1, Class R, Family 01.

ISSUE ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B 1	NOTE ADDED (MIL T-27-A)	6-29-60	2572	ONE		KS
A 1	AMPS ADDED TO STAMPING DIAGRAM	3/27/59	—	ONE		JSR
TOLERANCES		SCALE: FULL				
DEC. DIM. ±		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES				
FRAC. DIM. ± 1/64						
ANGULAR DIM. ±						

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

REF-BTC # 3256

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
—	—	THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
—	—	TRANSFORMER, POWER, STEP-UP	
—	—	16 ¹² /20/57	
—	—	DRAWN	
—	—	CHECKED	
—	—	FINAL APPROVAL	
—	—	ELEC. DES. APP.	TF-176
—	—	MECH. DES. APP.	B



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

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

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

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Property of:
 THE TECHNICAL MATERIEL CORPORATION
 MAMARONECK, NEW YORK

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	NOTE ADDED (MIL T-27A)	6-29-60	2572			KS
A	1	Redrawn - Electrically, Same - Case & Mtg. Chgd.	6/24/58	1		Hde	ASJ

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

SCALE: Full

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

Transformer shall be in accordance with MIL-T-27A and Amend. Type TFI RAOZFA

Req. Dick-Shur-Transformer Co. No.

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

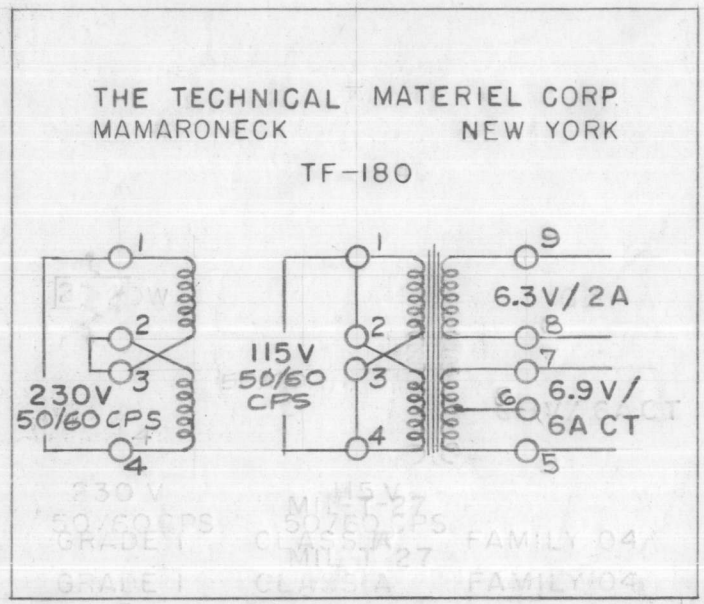
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
//		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
//		TRANSFORMER, POWER, STEP-DOWN	
//			
//		46-24-58	
//		TYPE & TEMPER	
//		HEAT TREAT. SPEC.	
//		FINISH & SPEC. NO.	

DRAWN: Hde, CHECKED: Hde, FINAL APPROVAL: A.J.J.

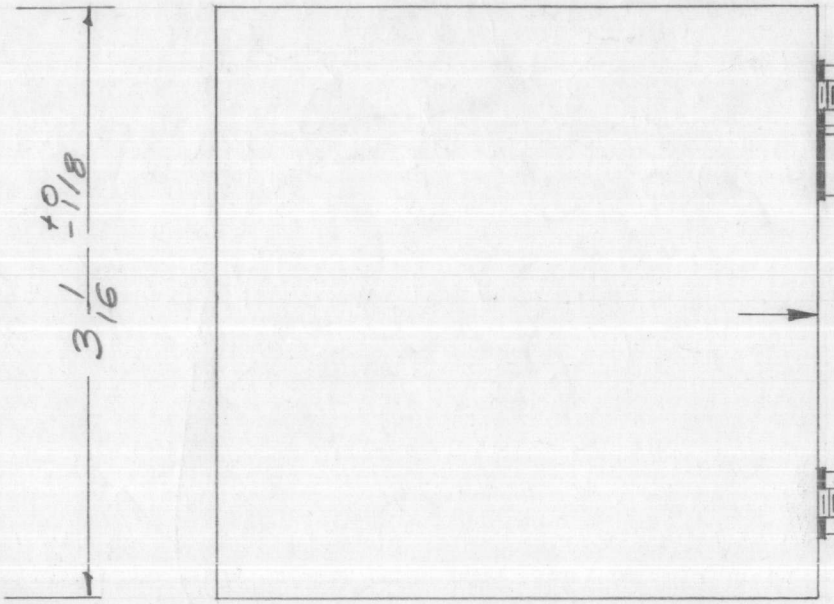
ELEC. DES. APP. MECH. DES. APP.

TF-179 B

TF-180 C

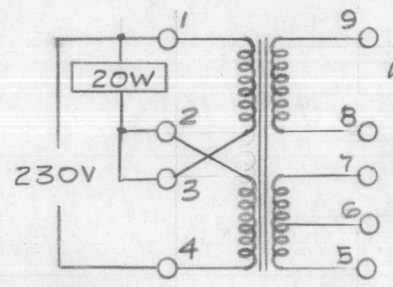
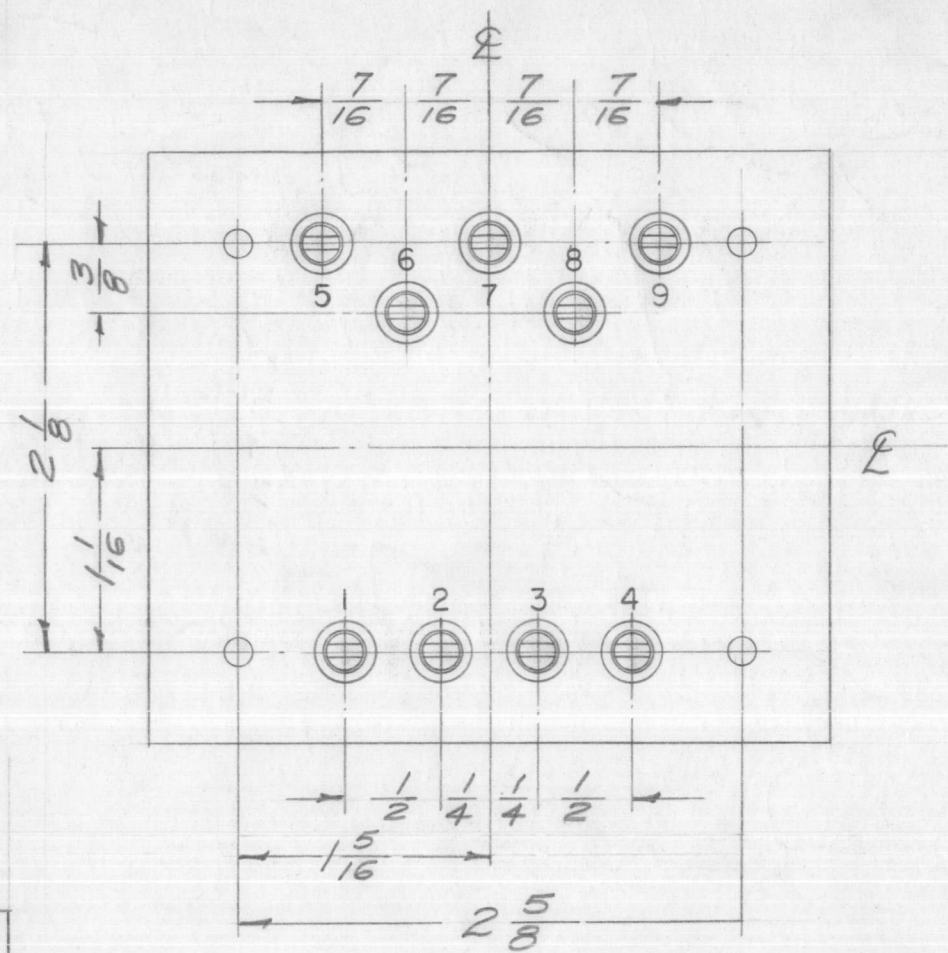


3 9/16 ± 0/18



3 1/8 ± 1/16

8-32 NC Cl. 2 Thds.
3/8 ± 1/16 Long.
4 REQ'D



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

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

MECHANICAL SPECIFICATIONS:
Case - Rectangular Steel, MIL Type JB Modified, Hermetically Sealed.
Finish - TMC Smooth Grey Enamel (5115), Except terminal End.
Size - 3 1/16 x 3 9/16 x 3 high, excluding studs and terminals
Stamping - Terminals shall be metal stamped 1 to 9 as shown. Opposite end shall be rubber stamped in black as shown.

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

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
C	1	ADDED 15/32 DIM. #4 REQ'D DELETED 3/8 ± 1/16 DIM	9/26/63	10055	RD	JAG	JAG
B	2	TERM NOS 5 THRU 9 WERE REVERSED	6-5-63	9180	E	JAG	JAG
A	1	NOTE ADDED (MIL T-27-A) 3/8 DIM WAS 3 ± 0/16	6-29-60	2572			H

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

SCALE: FULL

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

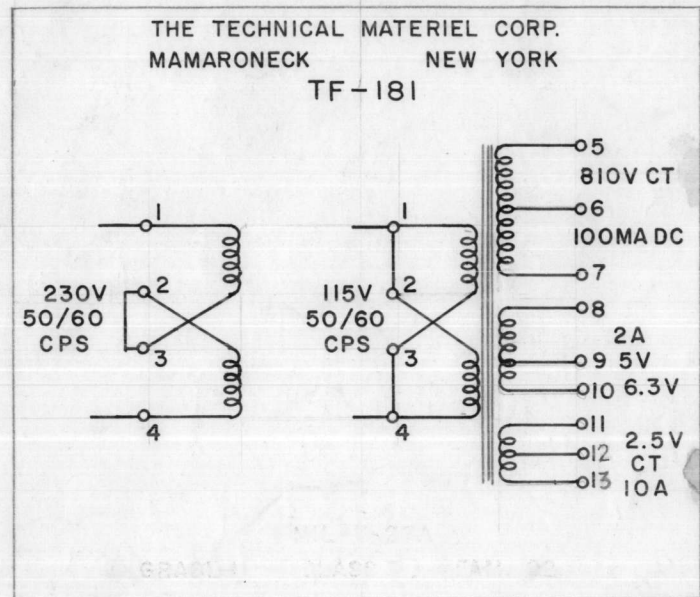
Transformer shall be in acc. with MIL-T-27A and Appendix, Grade 1, Class A, Fam. 04. MIL Type TF1RXCNB

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

USED ON

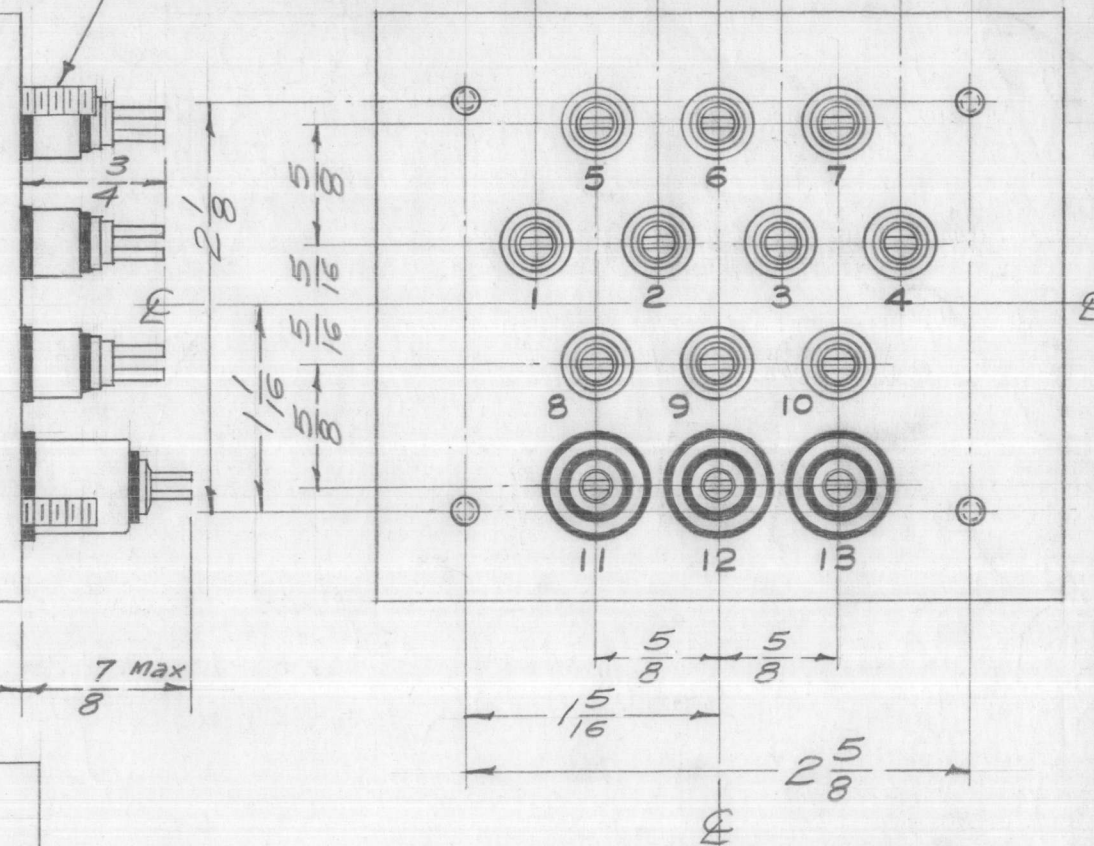
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	STOCK SIZE	TRANSFORMER, POWER,	
	MATERIAL	STEP DOWN	
		16 7/10/58	JAG
	TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN
			CHECKED
			FINAL APPROVAL
			TF-180

TF-181 B



3 1/16 +0 -1/16

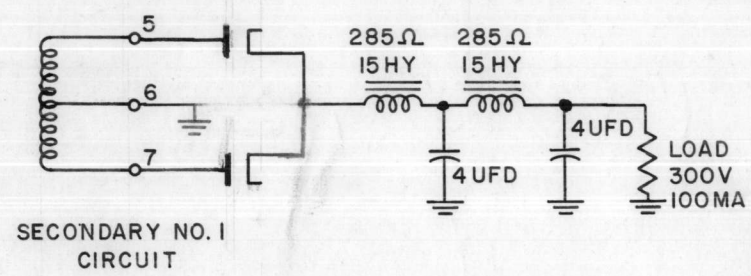
8-32 NC Cl.2 Thd. x 3/8 ± 1/16 Long



3 9/16 +0 -1/16

4 7/8 +0 -3/16

7 Max / 8



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

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.

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

STANDARD DRAWING

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

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

SCALE: FULL

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

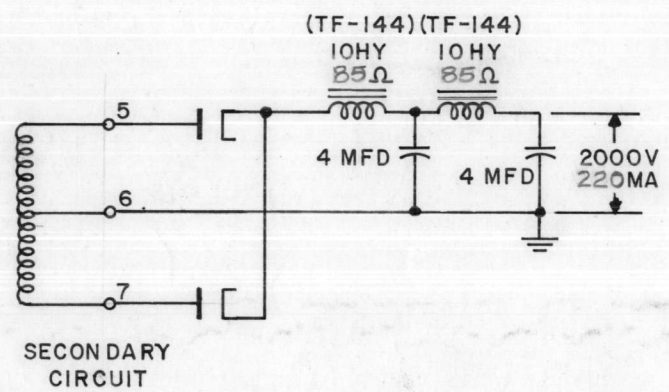
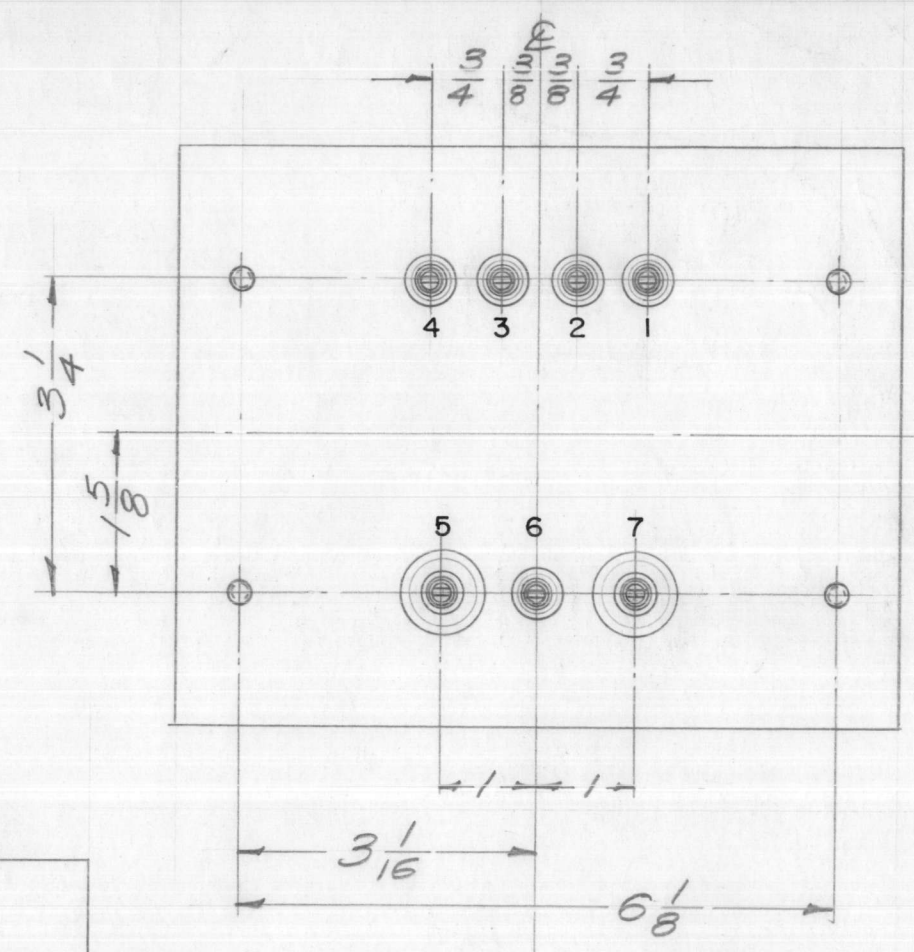
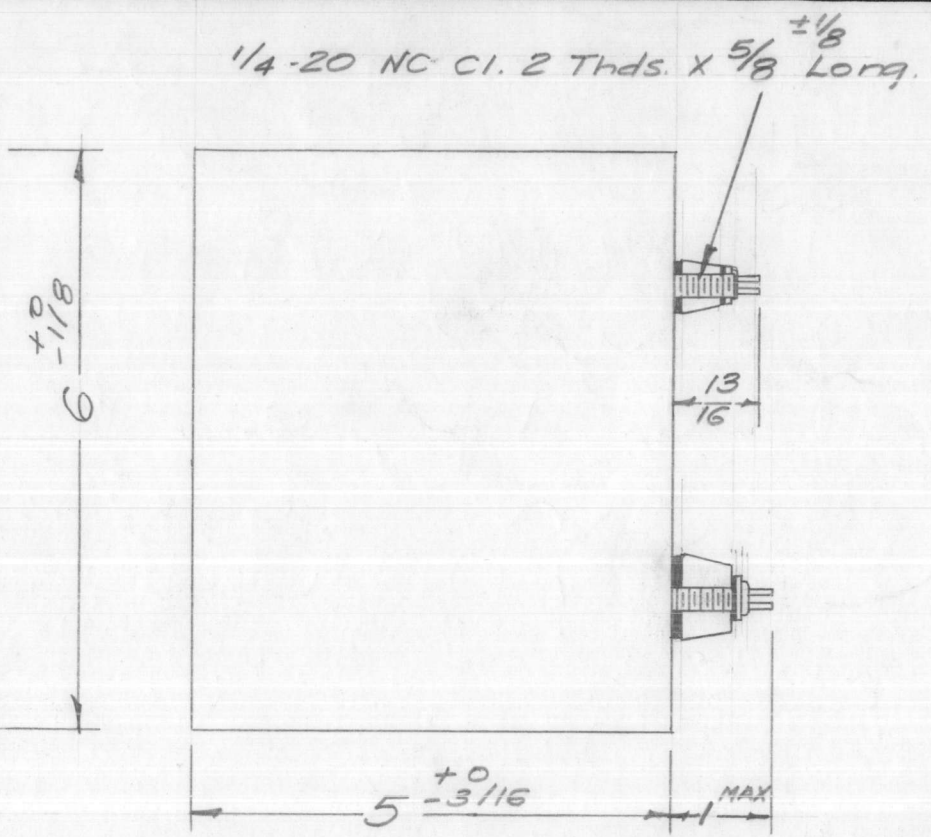
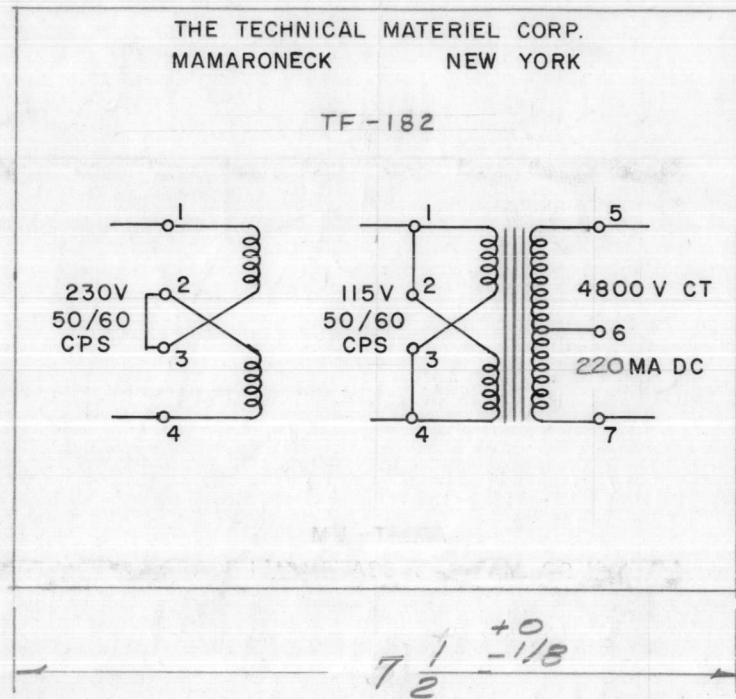
Transformer shall be in accordance with MIL T-27-A and amend., Grade 1, Class R, Form. 02.
MIL SPEC TF1RX02JA

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

USED ON

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

TF-182 A



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

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

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

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
A	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572			16

TOLERANCES SCALE: 1/2

DEC. DIM. \pm
FRAC. DIM. \pm 1/64
ANGULAR DIM. \pm

A

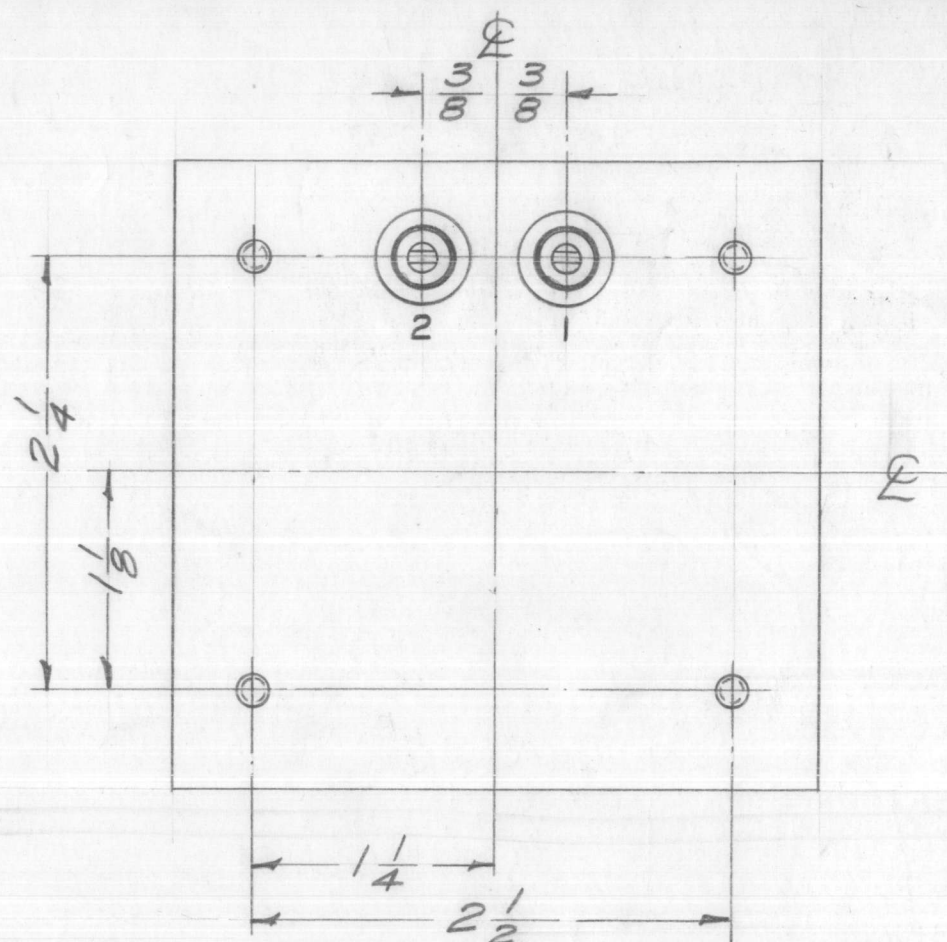
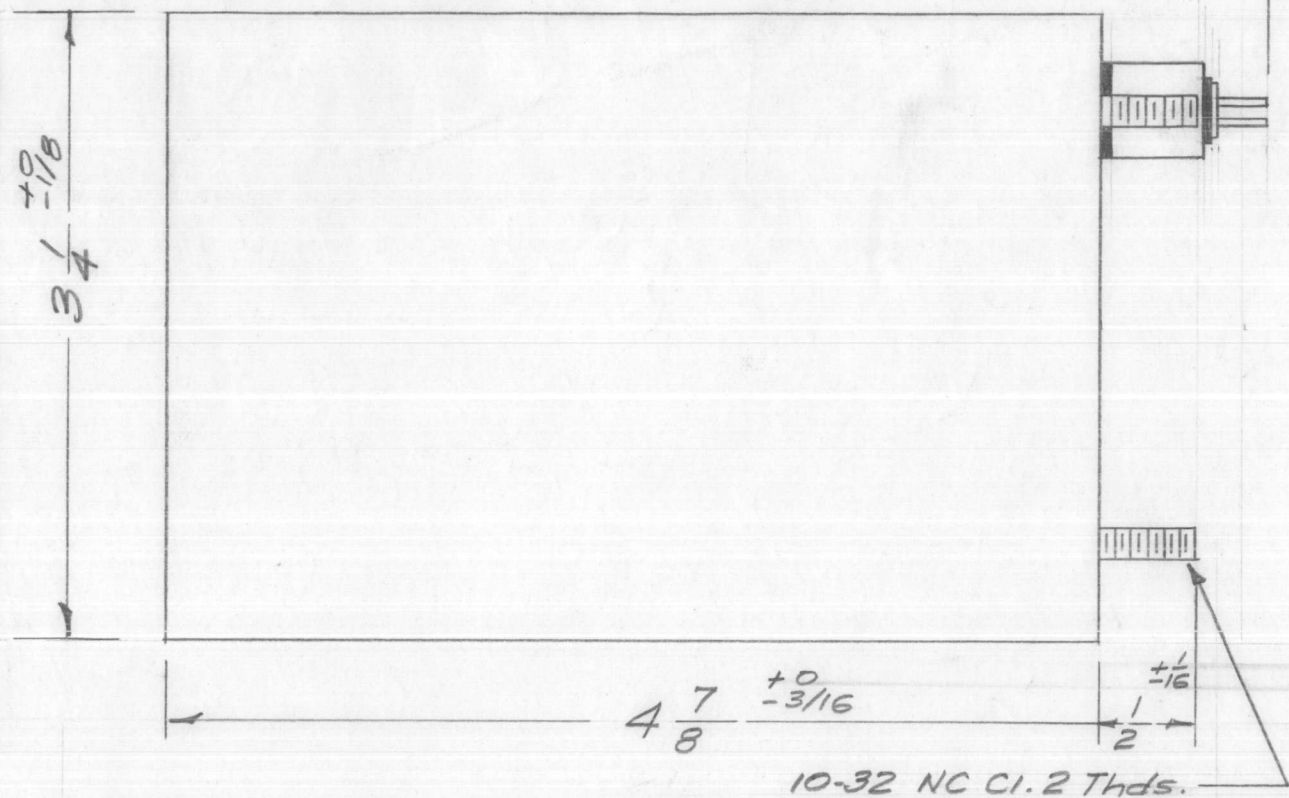
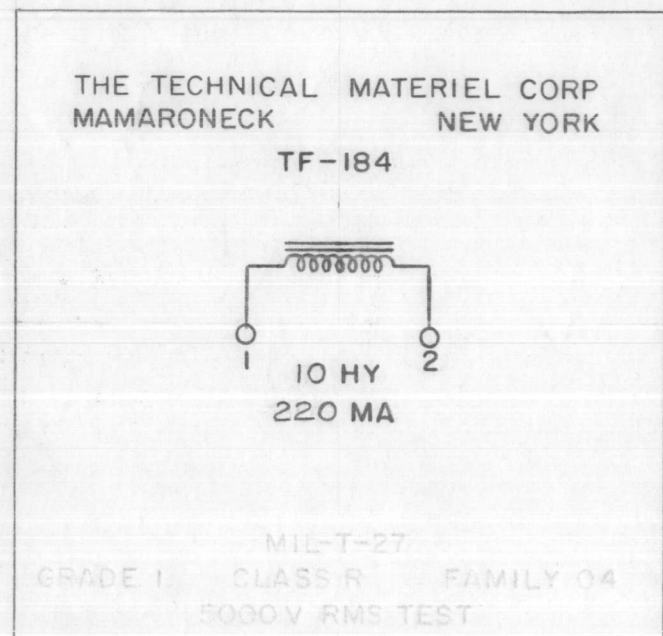
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.
REMOVE ALL BURRS AND SHARP EDGES

TRANSFORMER SHALL BE IN ACCORDANCE WITH MIL-T-27A END-USED.

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
				7-11-58

USED ON

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



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

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

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

Reactor shall be in acc. with MIL-T-27A and
 Amend., Grade 1, Class R, Family 04
 MIL TYPE TF1RX04YY

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

TOLERANCES SCALE: FULL

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

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

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
2	PSP 500	PAL 350	L103104	7/21/58

USED ON

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		REACTOR, 10 Henry, 220 MA	
		16/21/58	A.J.J.
		DRAWN	CHECKED
		TYPE & TEMPER	HEAT TREAT. SPEC.
		FINISH & SPEC. NO.	ELEC. DES. APP. MECH. DES. APP.

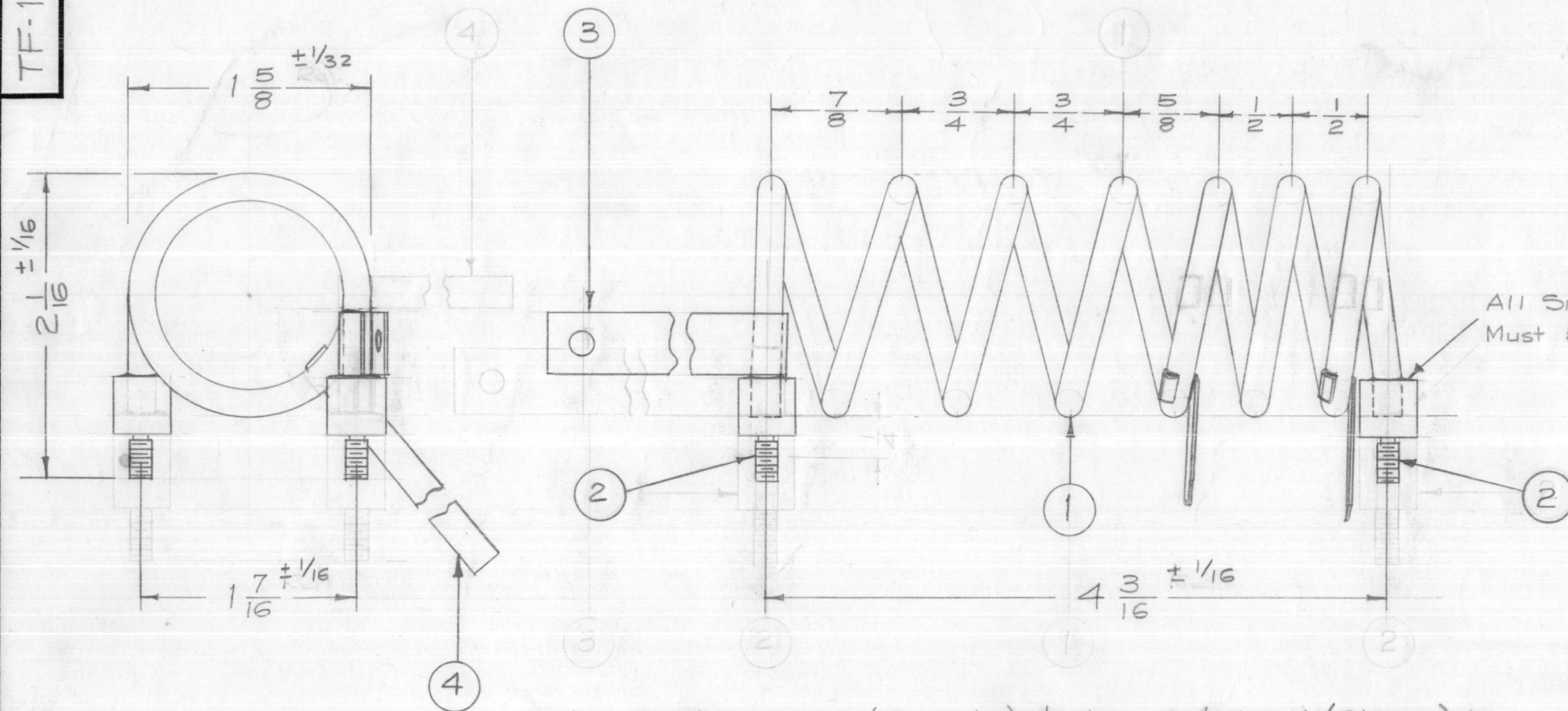
TF-184 A

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MAMARONECK, NEW YORK



All Silver Solder Joints Must Be Full & Smooth.

ELECTRICAL SPEC:

Inductance -

MECHANICAL SPEC:

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

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

X	5	BS-101-1	Solder, Silver	
2	4	MS-203-1-2.00	Lead, Connecting, 1/4 Wide	2" lg.
1	3	MS-202-4-7.00	Lead, Connecting, 7/16 Wide	7" lg.
2	2	PM-491	Bushing, Transformer	
X	1	TU-100-3N	Tubing, Copper (3/16 OD x .127 ID)	

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
THE TECHNICAL MATERIEL CORP.			
MAMARONECK, NEW YORK			
STOCK SIZE			
TRANSFORMER, RF, FIXED,			
16-32 MC (T208)			
MATERIAL			
		16 5/24/58	A.J.J.
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
S-24E Silver Plate		WYO	RFB
.0005			
FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.	
			TF-188 B

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	ITEM 4 TAPS MOVED DOWN ON TURNS	6/25/58	2	16	WYO	A.J.J.
A	1	Bushing Size chgd (item 2) Height Added (2-1/16) item 3 was 6-1/2"	6/5/58	1	16	WYO	A.J.J.

TOLERANCES SCALE: FULL

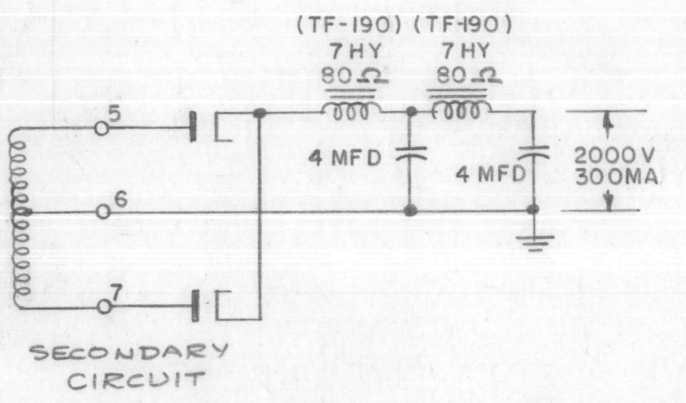
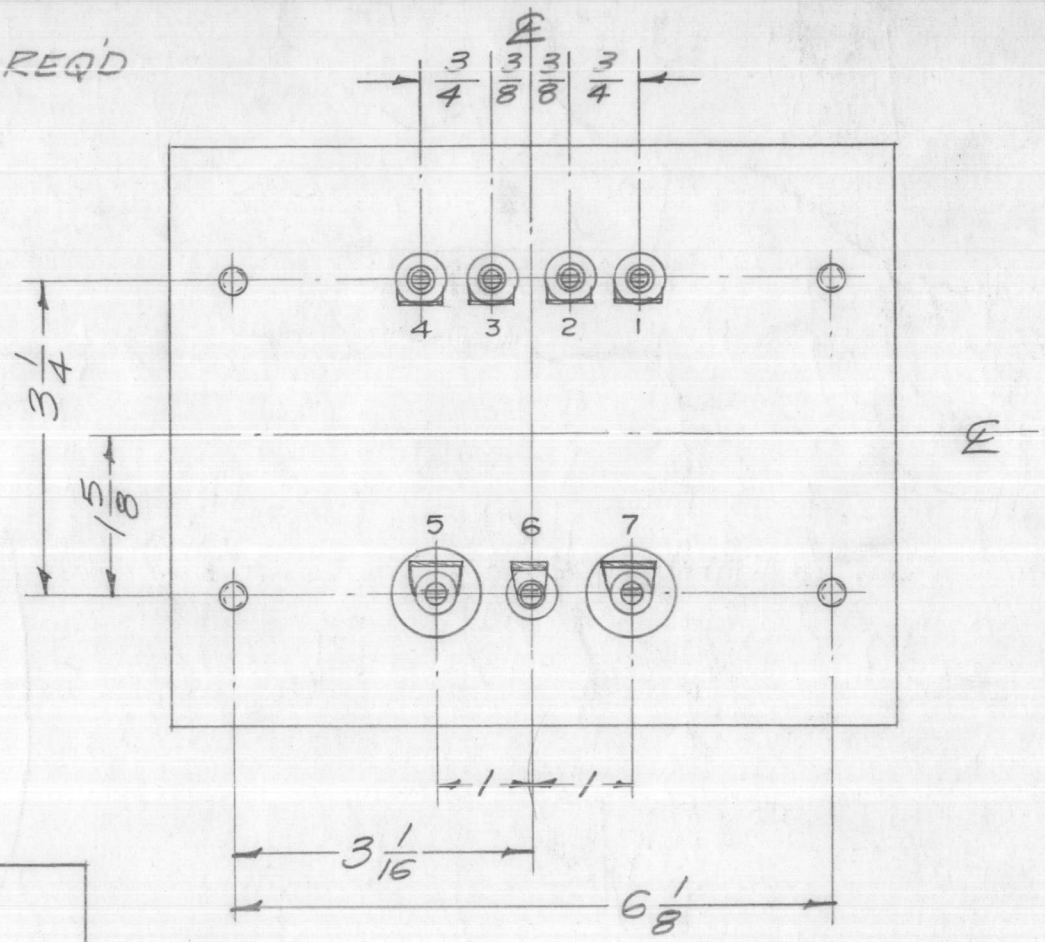
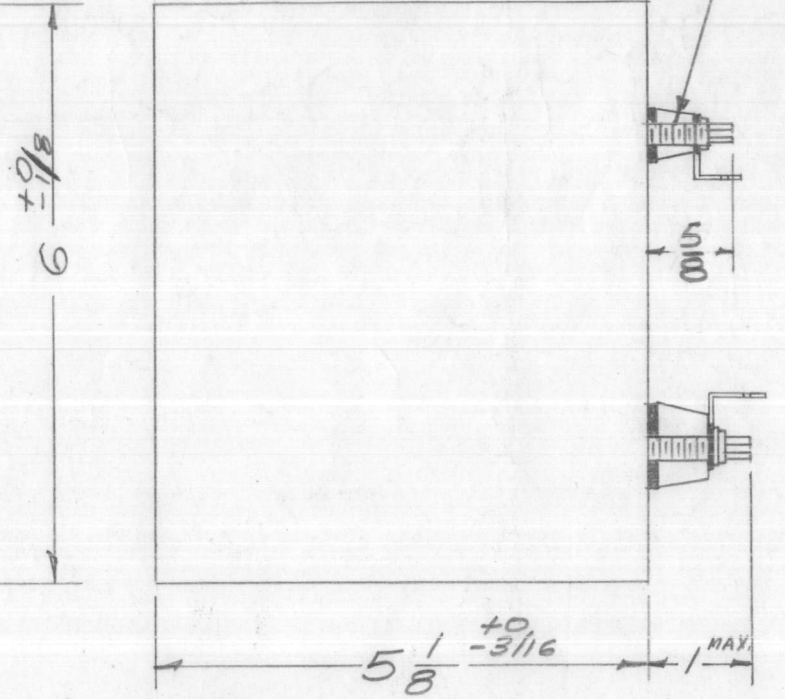
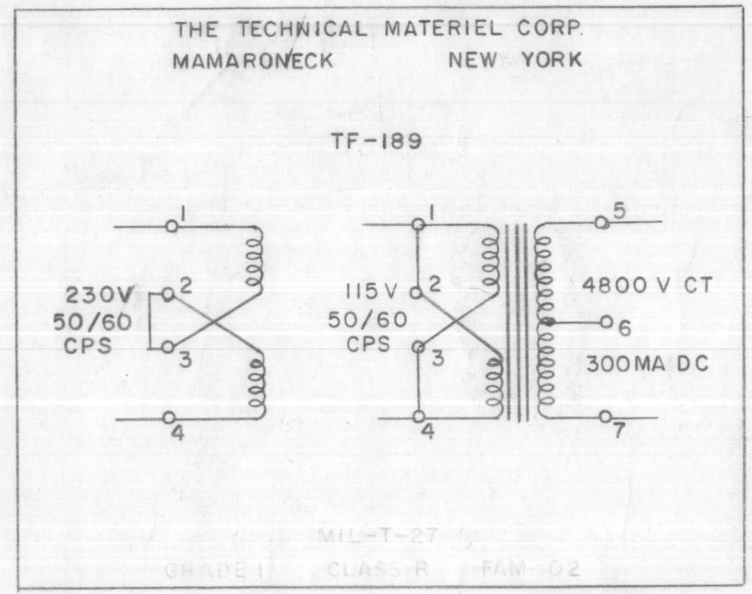
DEC. DIM. ±
FRAC. DIM. ±
ANGULAR DIM. ±

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

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

TF-189 B

1/4-20 NC CI. 2 THDS. X 5/8 ± 1/8 Long. 4 REQ'D



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

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

TRANSFORMER SHALL BE IN ACCORDANCE WITH MIL-T-27A AND AMENDMENTS.
 GRADE 1, CLASS R, FAMILY 02
 MIL Type YFL102YY

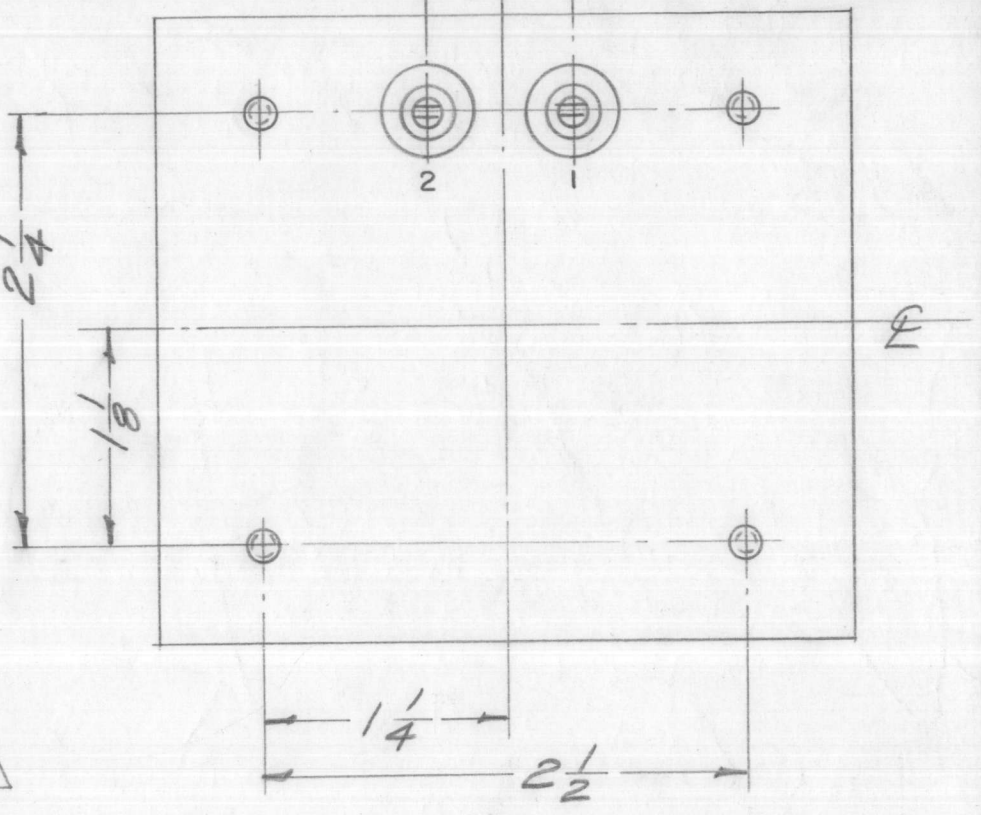
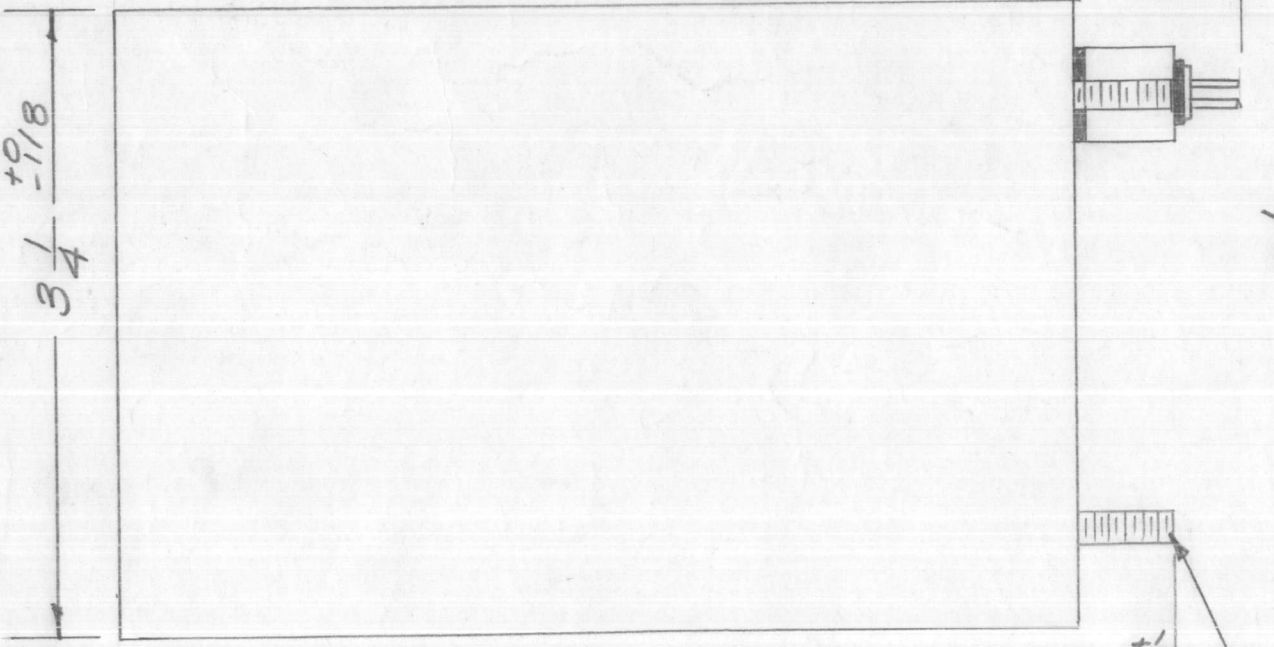
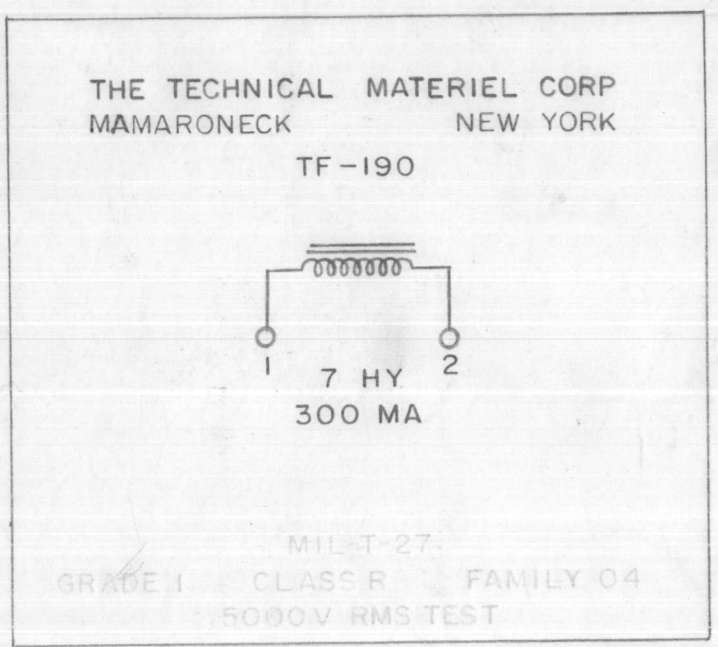
NOTE: MANUFACTURED IN ACCORDANCE WITH MIL SPEC T-27-A EXCEPT THAT MIL SPEC T-27-A SHALL NOT APPEAR ON CASE AND QUALIFICATION TESTING IS NOT REQUIRED.

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	TERM. CLARIFIED 5/8 DIM. WAS 13/16	9-27-63	10098		JNY	[Signature]
A	1	NOTE ADDED (MIL-T-27A)	6-29-60	2572		[Signature]	[Signature]
<p>TOLERANCES SCALE: 1/2</p> <p>DEC. DIM. ±</p> <p>FRAC. DIM. ± 1/64</p> <p>ANGULAR DIM. ±</p> <p>A</p> <p>MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES</p>							

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

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
STOCK SIZE		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
MATERIAL		TRANSFORMER, POWER, STEP-UP	
TYPE & TEMPER		HEAT TREAT. SPEC.	
DRAWN		CHECKED	
FINISH & SPEC. NO.		ELEC. DES. APP. MECH. DES. APP.	
167/21/58		[Signature]	
[Signature]		[Signature]	
TF-189		B	

TF-190 B



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

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

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

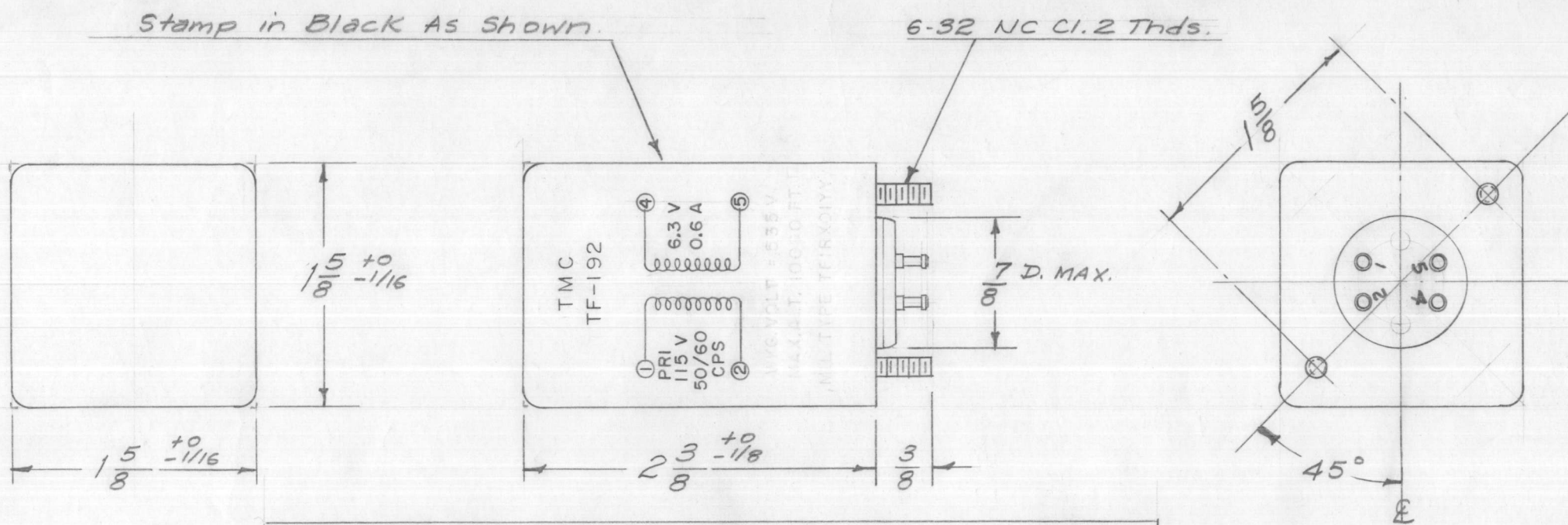
REACTOR SHALL BE IN ACCORDANCE WITH MIL-T-27A AND AMENDMENTS.
 GRADE 1, CLASS R, FAMILY 04
 MIL TYPE THERMO, YY

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

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

REF: Reactor Transformer 22... No.

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	STOCK SIZE	REACTOR, 7 HENRY, 300 MA	
	MATERIAL		
		16 7/22/58	<i>[Signature]</i>
	TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN
			CHECKED
			FINAL APPROVAL
	FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.
		<i>[Signature]</i>	TF-190
			B



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

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

TRANSFORMER SHALL BE IN ACC. WITH MIL-T-27A AND AMEND.
 GRADE 1, GLASS R, FAMILY O1
 MIL TYPE TFRX01YY

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

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

TOLERANCES

SCALE: S401-159 (HSM-223)

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

C

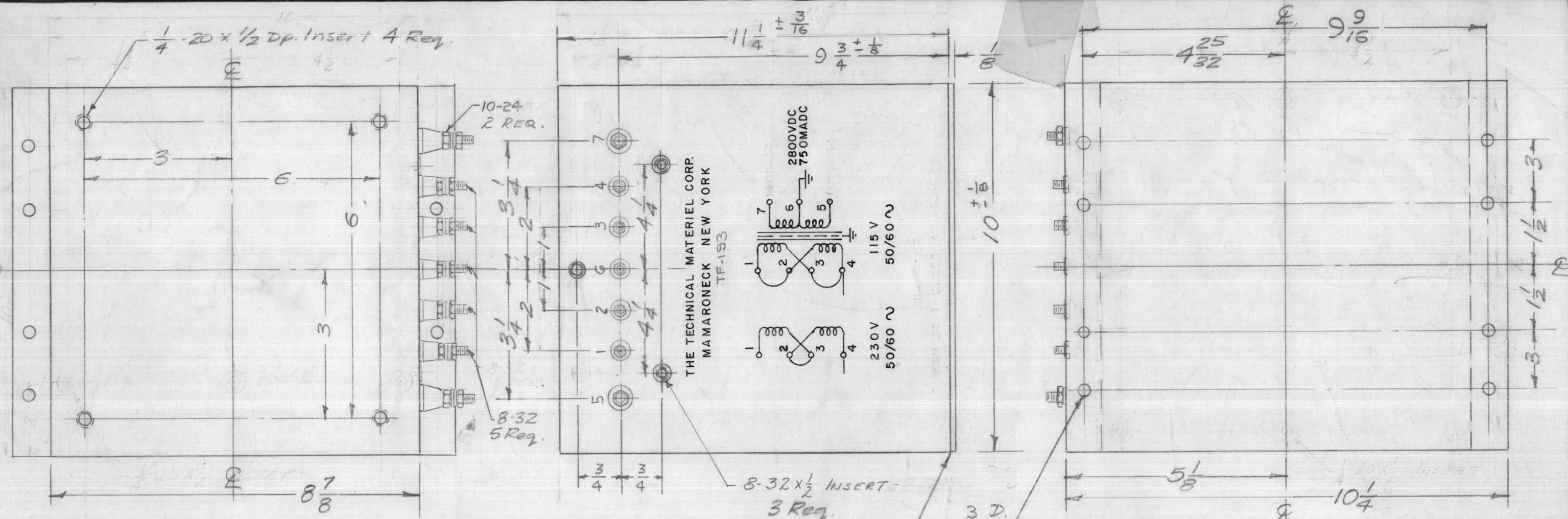
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.
 REMOVE ALL BURRS AND SHARP EDGES

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

USED ON

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE		TRANSFORMER, POWER, STEP-DOWN (FILAMENT)	
MATERIAL			
TYPE & TEMPER		HEAT TREAT. SPEC.	
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
		16 2/18/58	TF-192 B

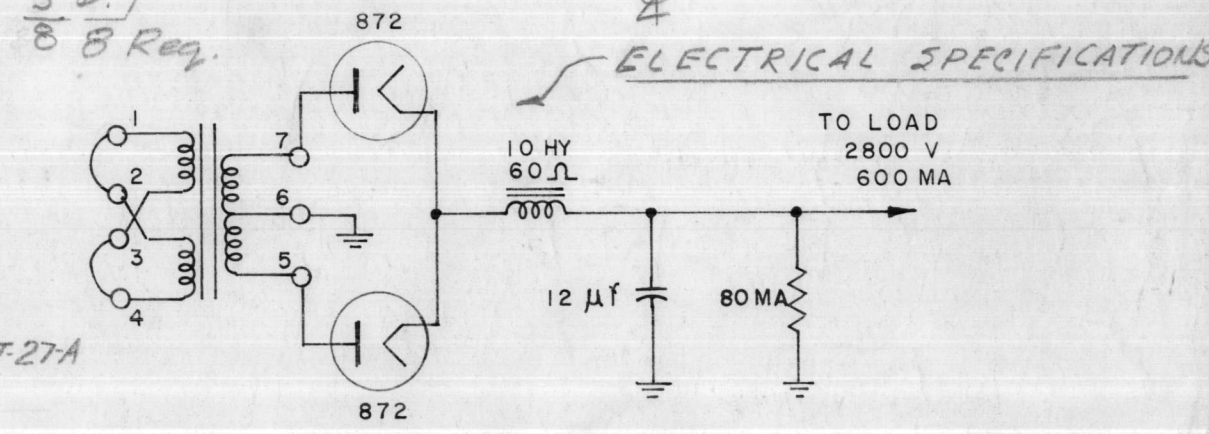
TF-193



MECHANICAL SPECIFICATIONS-
 CASE - STEEL, HERMETICALLY SEALED, RECTANGULAR
 COLOR - TMC SMOOTH GRAY S-115
 INSERTS - 1/4-20 x 1/2 DEEP - 4 REQ.
 8-32 x 1/2 DEEP - 3 REQ.
 SIZE - 8 7/8 x 10 x 11 1/4 EXCLUSIVE OF TERMINALS AND MOUNTING PLATE LIPS.

1/8 Plate Welded to TRANSFORMER (10 x 10 1/4)

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.



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

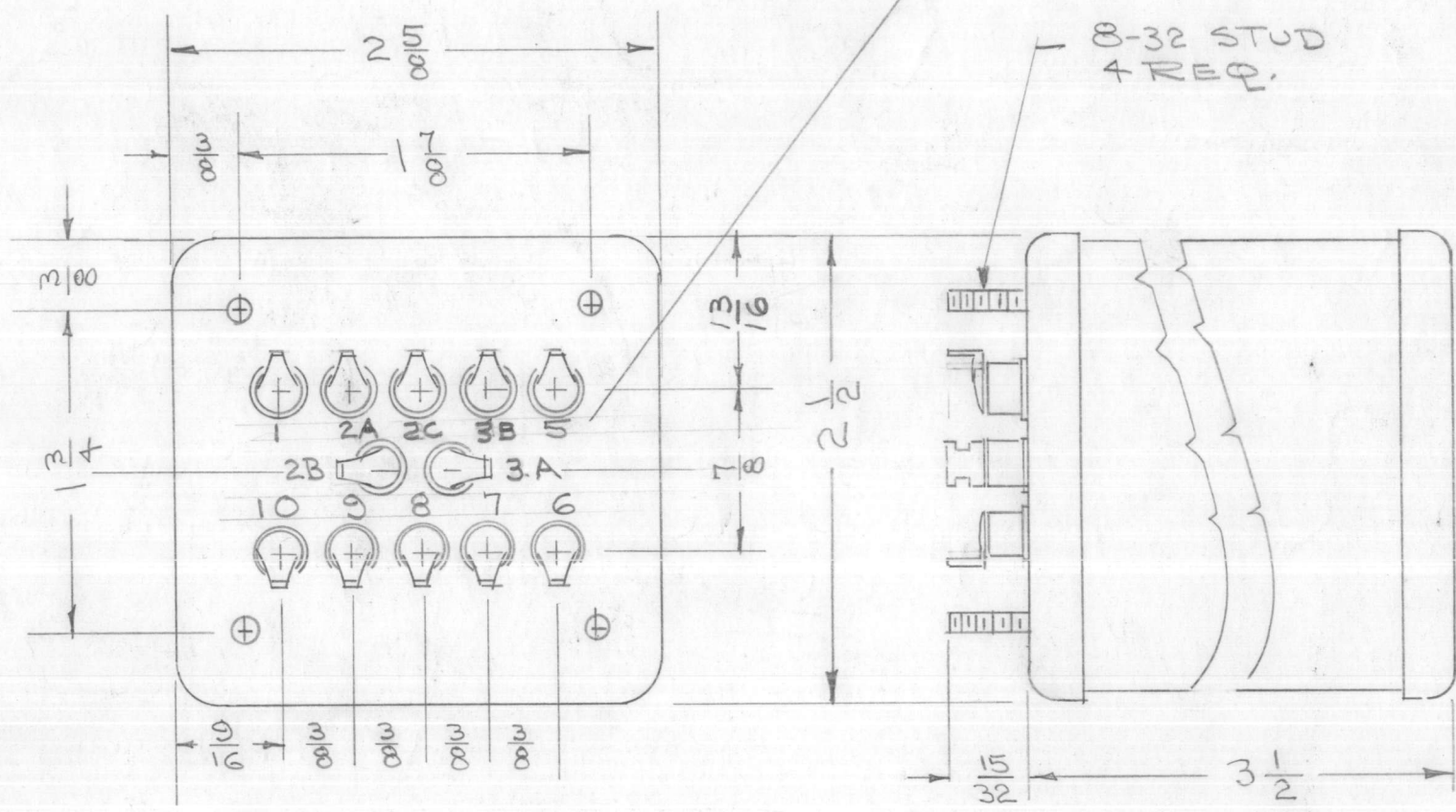
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	
F		TOL ADDED, INSERTS QTY. CLAR.	9-13-67	18486	H.G.		EFM	
E	1	10-24 THD WAS 10-32	9-10-63	9918	YAP			
D	2	IN SPECS. 750 MA WAS 600 MA.	7-30-63	9673	AK.			
C	1	IN PICT. 750MADC WAS 600MADC						
C	2	Pins 5 & 7 H.V. (clarified)	11-17-61	5906	L. L.			
B	1	115V Was 118V On Pictorial						
B	1	NOTE ADDED (MIL T-27A)	6-29-60	2572				
A	1	3/8 DIA WAS 5/32	6/8/59					
TOLERANCES		SCALE: 2-1246						
DIM. ±		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES						
DIM. ±		A						
DIM. ±		REQ. PER UNIT						
		MODEL						
		PROJECT NO.						
		ASS'Y. NO.						
		DATE						
		USED ON						

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 Property of THE TECHNICAL MATERIEL CORPORATION MAMARONECK, NEW YORK

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK			
STOCK SIZE			
TRANSFORMER, POWER, STEP-UP			
MATERIAL			
TYPE & TEMPER		HEAT TREAT. SPEC.	DRAWN
			CHECKED
			FINAL APPROVAL
			A. J. J.
			RFB
			TF-193
			F

TF-194

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



A. ELECTRICAL SPECIFICATIONS:

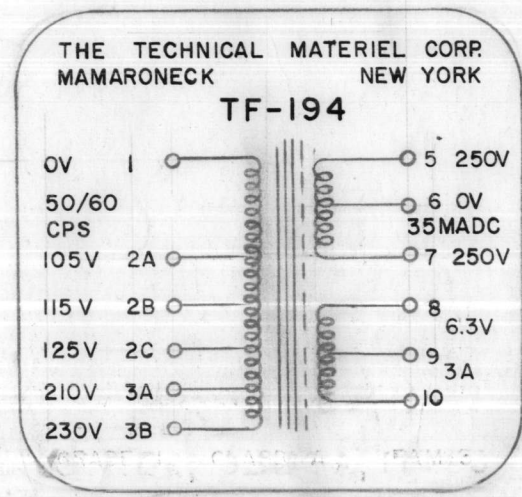
PRIMARY: 105V, 115V, 125V, 210V, 230V, 50/60 CPS, Single Phase
 SECONDARY: #1. 250-0-250 volts RMS, 35MA DC operating into a 4 MFD capacity input filter.
 SECONDARY: #2. 6.3 volts center tapped at 3 AMPS.
 INSULATION: All windings insulated for 1000 V.
 HEAT RISE: Max. temperature Rise + 40° C.

B. MECHANICAL SPECIFICATIONS:

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

C. SPECIFICATIONS: The entire unit to be manufactured in accordance with Mil-T-27 Grade 1, Class A, Family 03.

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



NOTE:
STATIC SHIELD GROUNDED
TO LAMINATION

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

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

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

TF-195 G

ELECTRICAL SPECIFICATIONS:

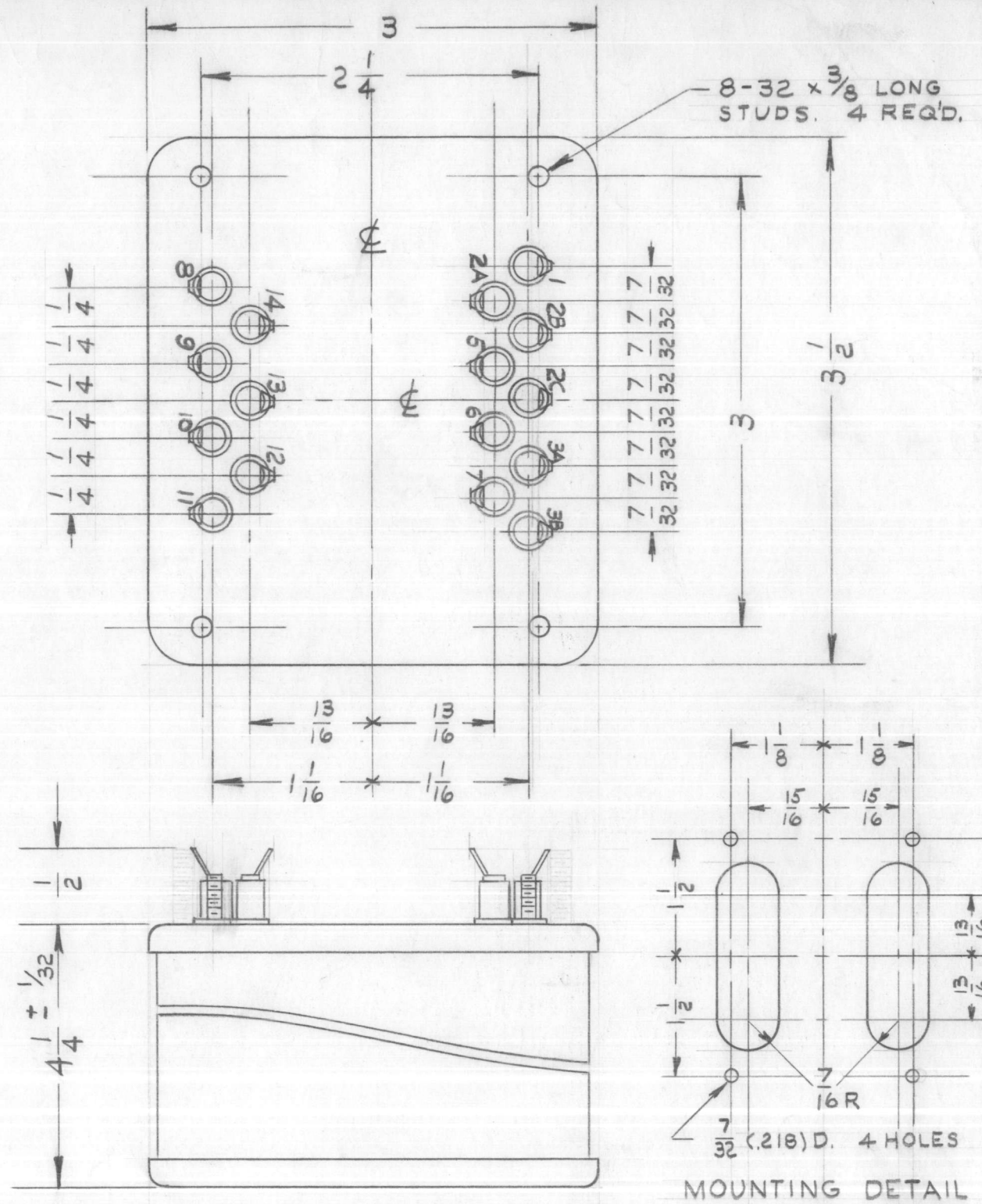
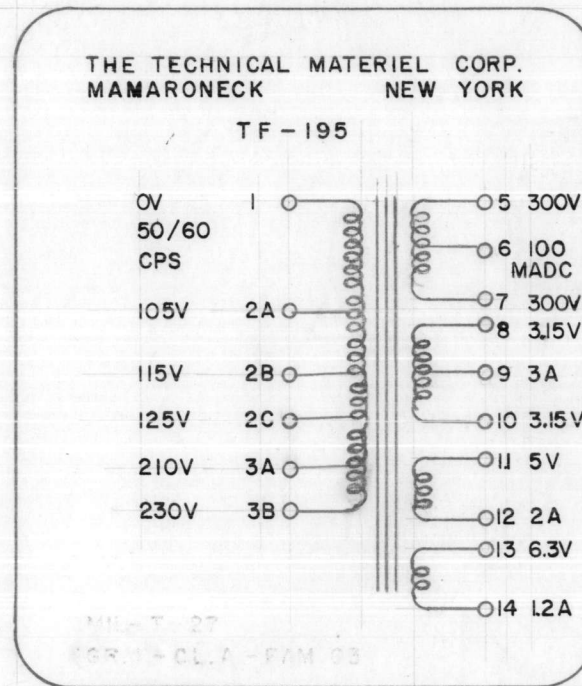
- PRIMARY: 105V, 115V, 125, 210V, 230V, 50/60 CPS, Single Phase
- SECONDARY NO. 1: 600 V, 100 MA, Center Tapped.
- SECONDARY NO. 2: 6.3 V, 3 A, Center Tapped.
- SECONDARY NO. 3: 5 V, 2 A.
- SECONDARY NO. 4: 6.3 V, 1.2 A, so phased that 12.6 V will appear across terminals 10 & 13. If terminals 8 & 14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

MECHANICAL SPECIFICATION:

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

Unit shall be in accordance with MIL-7-27 Grade 1, Class A, Family 03.

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



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

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

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE		TRANSFORMER POWER	
MATERIAL		MODIFIED T-27-A	
TYPE & TEMPER		HEAT TREAT. SPEC.	
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
		DRAWN	CHECKED
		DATE	FINAL APPROVAL
		9/30/58	R.P.K. J.R.
		TF-195	G

TF-196 C

ELECTRICAL SPECIFICATIONS:

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

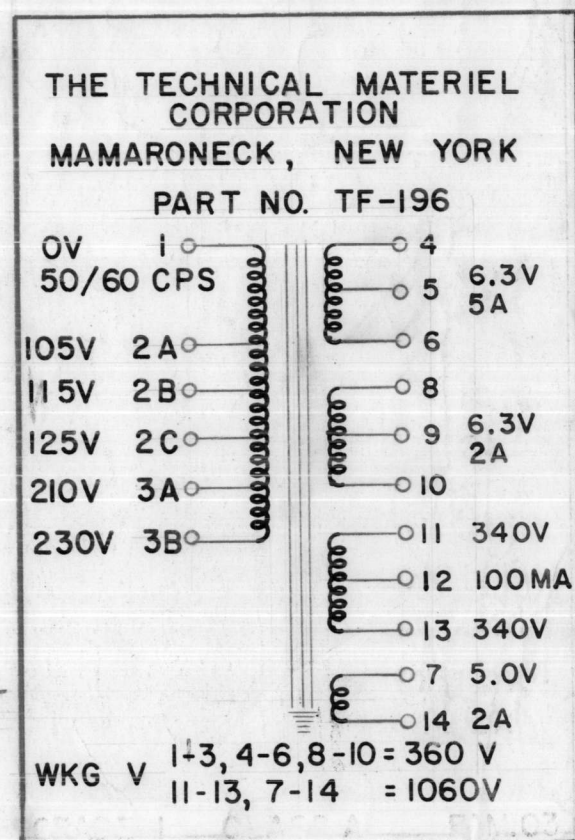
MECHANICAL SPECIFICATIONS:

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

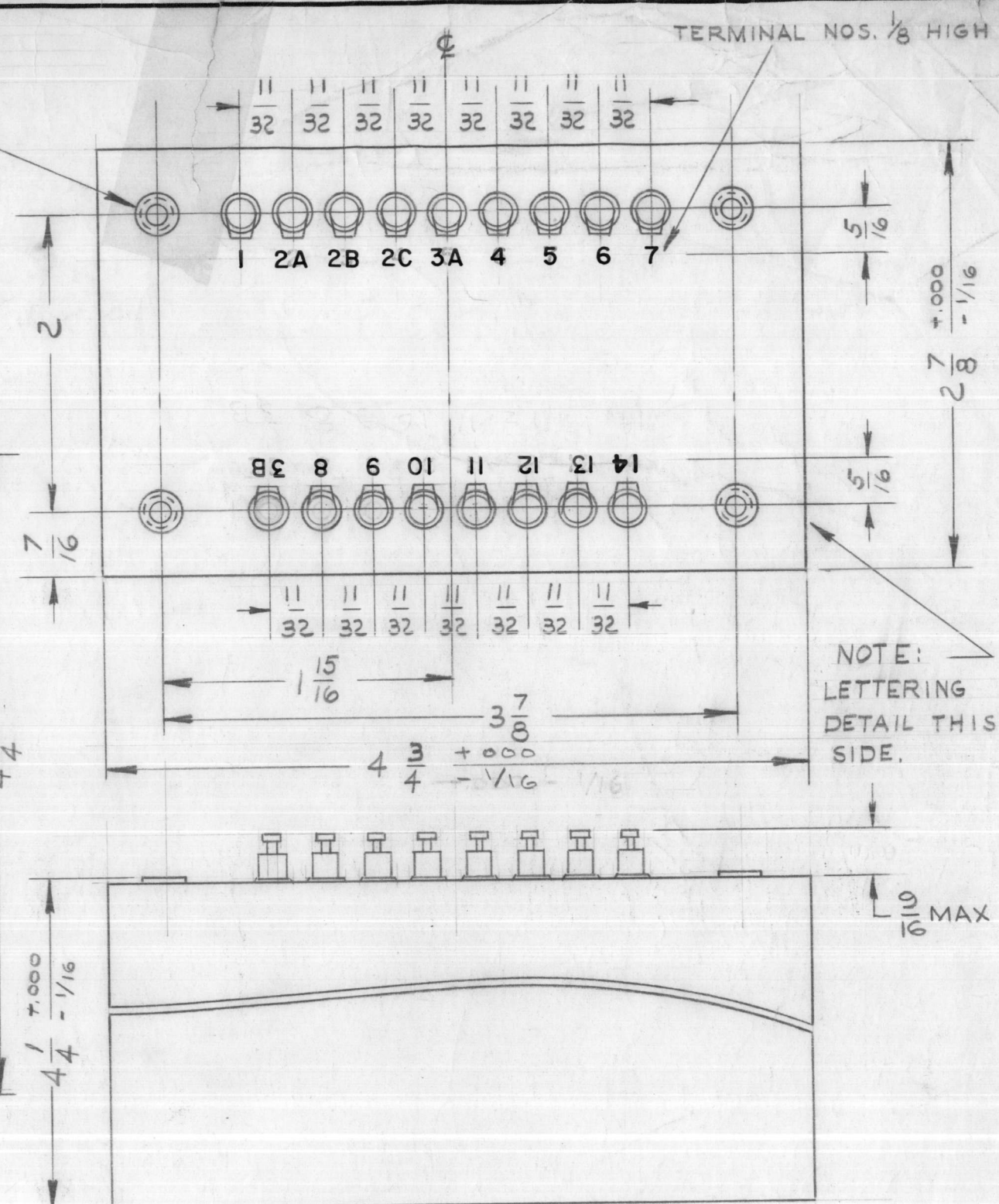
The unit shall be constructed in accordance with MIL-T-27 Grade 1, Class A, Family 03.

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

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



LETTERING DETAIL



NOTE: LETTERING DETAIL THIS SIDE.

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ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
C	1	9/16 MAX WAS 3/8	9-10-63	9917	JAB	file	JAB
B	1	NOTE ADDED (MIL T-27A)	6-29-60	2572	JAB		JAB
A	1	Errors corrected on terminal No's 7 & 14	4/9/59	917	J.C.B.	P.L.K.	AMB

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

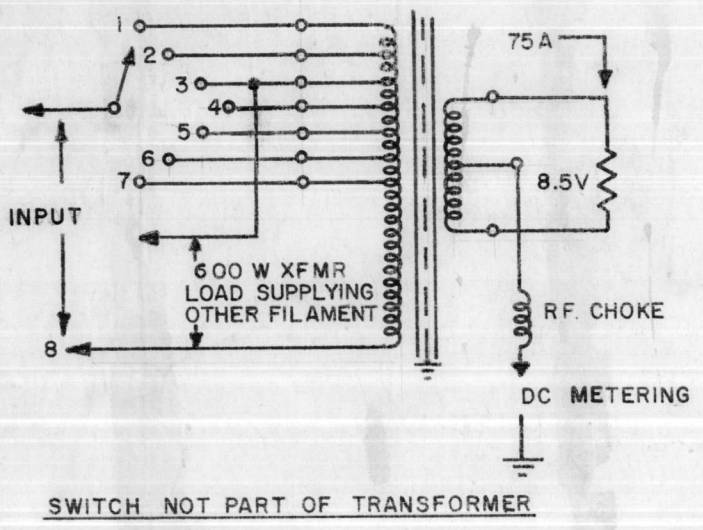
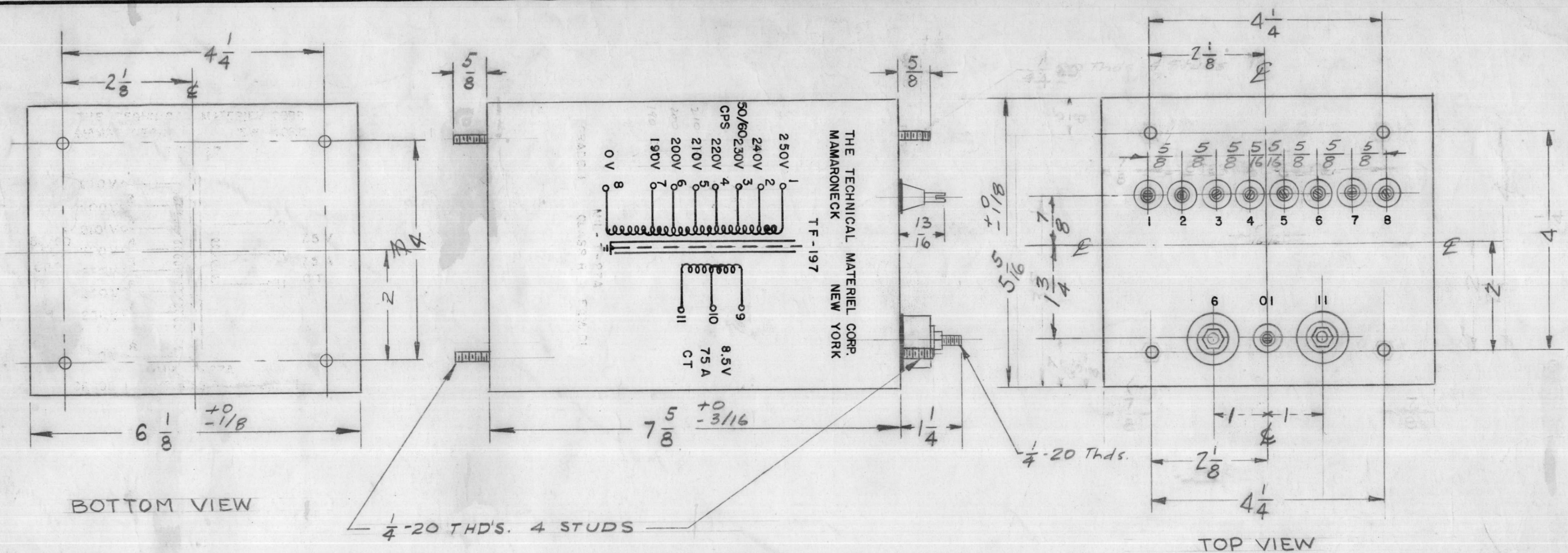
SCALE: A

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

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

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE		POWER TRANSFORMER	
MATERIAL			
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
FINISH & SPEC. NO.		FINAL APPROVAL	
		ELEC. DES. APP. MECH. DES. APP.	
		P.L.K. 9/30/58	
		JAB file	
		JAB	
		TF-196 C	

TF-197 E



ELECTRICAL SPECIFICATIONS:

PRIMARY— 230 V, 50/60 CPS 1 ϕ , WITH TAPS, PLUS AUTOTRANSFORMER SUPPLYING 600 W

SECONDARY— 8.5V AT 75 AMP, 2000 VOLT INSULATION.

MECHANICAL SPECIFICATIONS:

CASE— RECTANGULAR, STEEL, MIL TYPE YY HERMETICALLY SEALED.

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

SIZE 6-1/8 X 5-5/16 X 7-5/8 HIGH, EXCLUDING STUDS AND TERMINALS.

STAMPING TERMINALS SHALL BE STAMPED 1 TO 11 AS SHOWN. OPPOSITE END SHALL BE RUBBER STAMPED IN BLACK AS SHOWN.

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

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
E	1	ON MECH SPECS 55 WAS 55	10-23-67	18559	MEC	J.P.	EPM
D	1	NOTE ADDED (MIL T-27-A)	6-29-60	2572	J.P.	J.P.	K
C	1	8.5V WAS 7.5V	1-27-59	705	J.C.B.	T.G.	AMB
B	1	$\frac{1}{4}$ -20 THDS 5/8 LONG ADDED TO TOP VIEW	12-15-58	570	J.C.B.	T.G.	AMB
A	1	SCHEMATIC CLARIFIED	11-19-58		J.P.	T.G.	AMB

TOLERANCES: DEC. DIM. \pm , FRAC. DIM. \pm 1/64, ANGULAR DIM. \pm

SCALE: 1-1235

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

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

USED ON

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

11-6-58

J.P. K

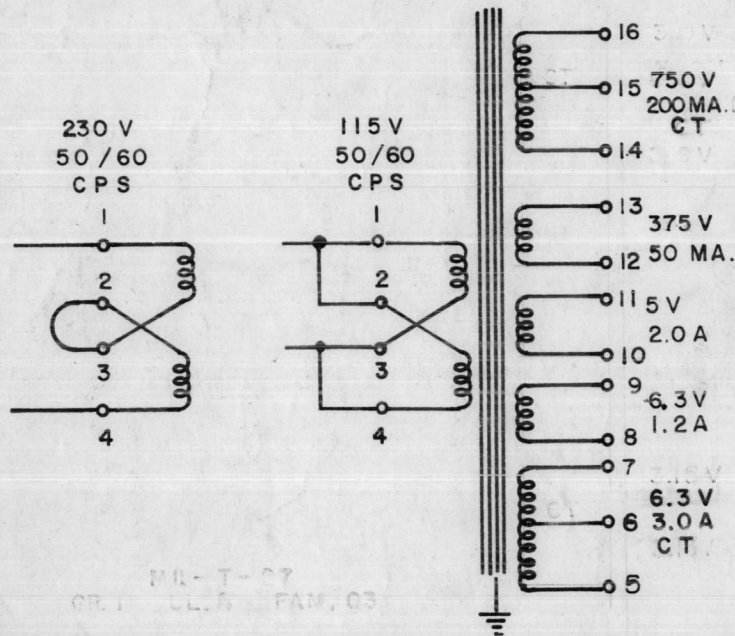
T.G. AMB

TF-197 E

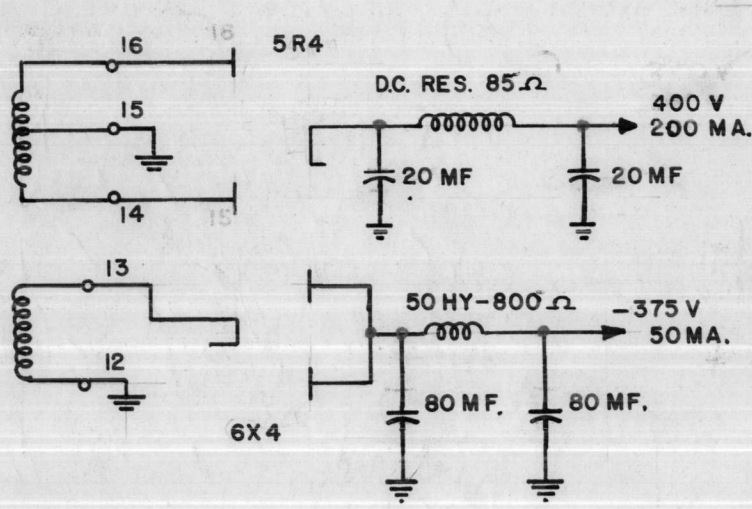
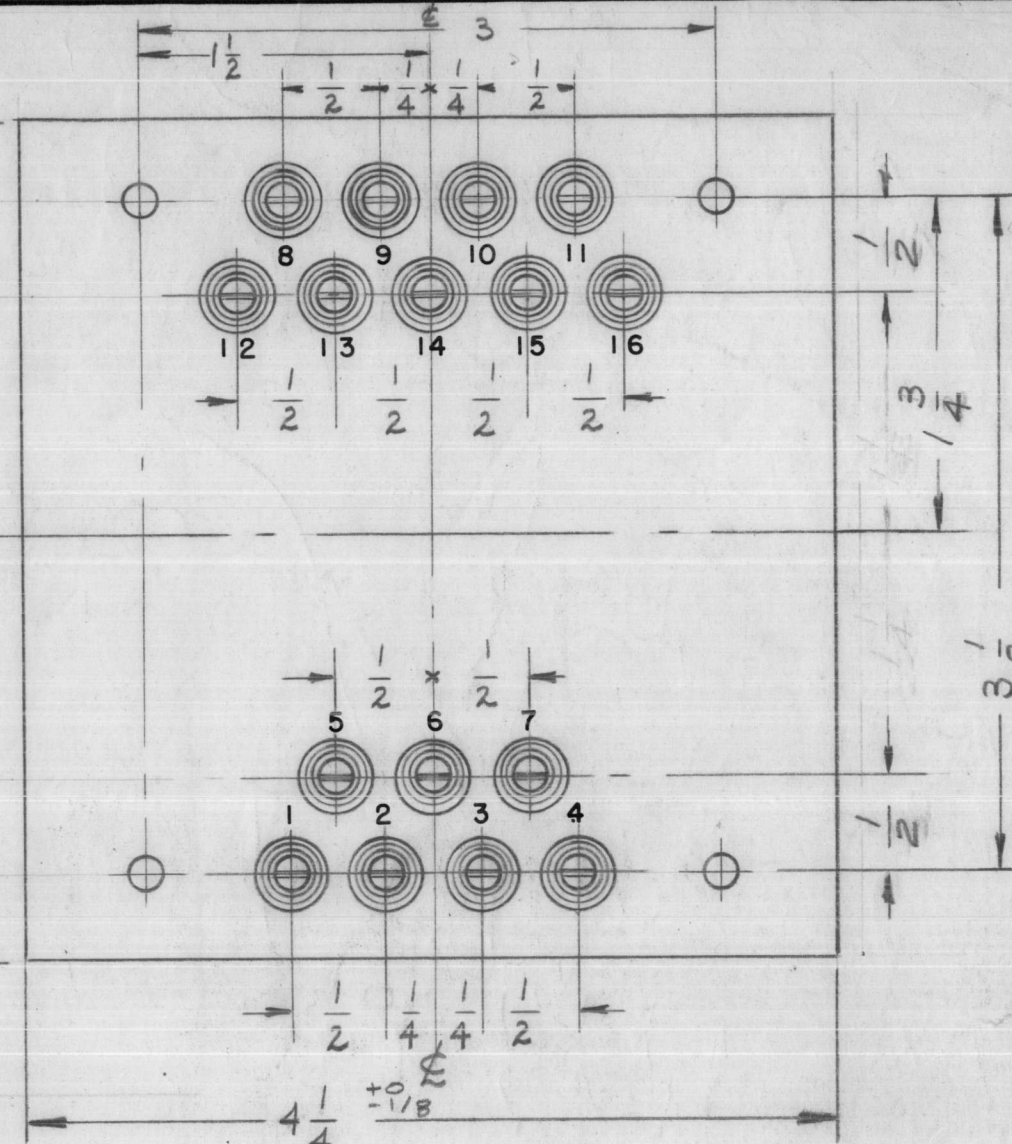
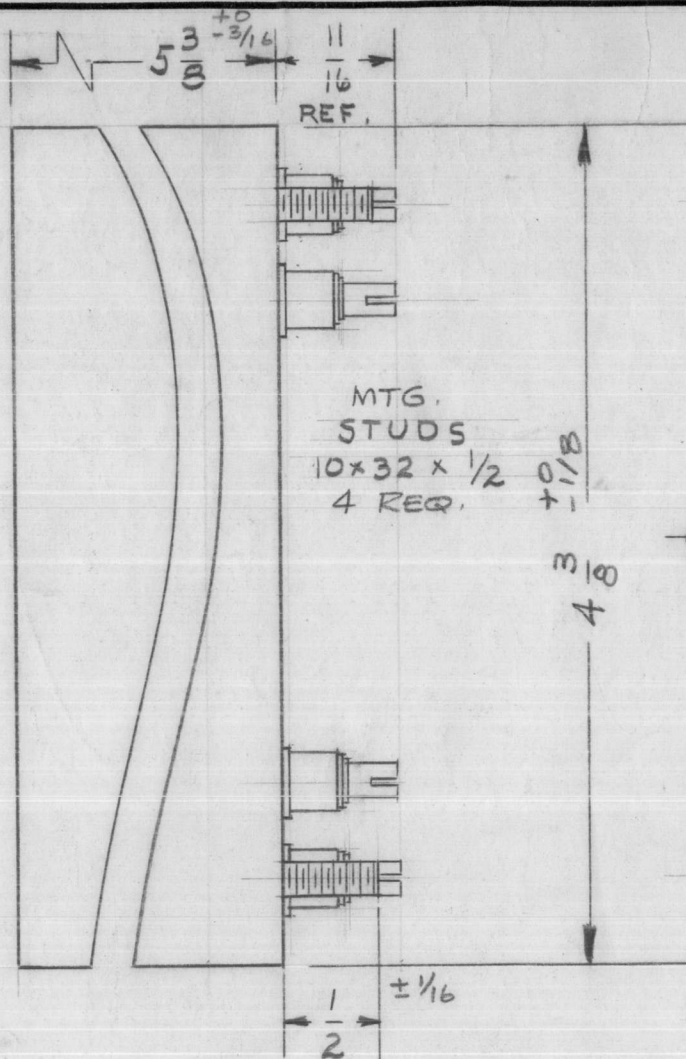
TF-198 E

THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK

TF-198-E



MIL-T-27
CR. 1 CL. A FAM. 03



ELECTRICAL SPECIFICATION:

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

SECONDARY: FIVE WINDINGS AS FOLLOWS:

1. 750 VAC AT 200 MA CENTER TAPPED
2. 375 VAC AT 50 MA
3. 5.0 VAC AT 2.0 AMPS
4. 6.3 VAC AT 1.2 AMPS
5. 6.3 VAC AT 3.0 AMPS CENTER TAPPED

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

MECHANICAL SPECIFICATIONS:

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

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

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

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

ISSUE ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
E 1	SEC. #1 WAS 800 VAC SEC. #2 WAS 370 VAC	7-17-63	9655			
D 2	ON SECONDARY BODY WAS 700V, 30V WAS 315	G363	9120			
	STAMPING & SCHEMATIC CLARIFIED					

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

SCALE: 2-1287

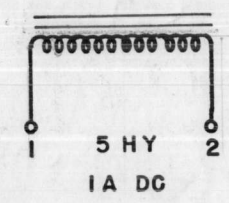
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

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

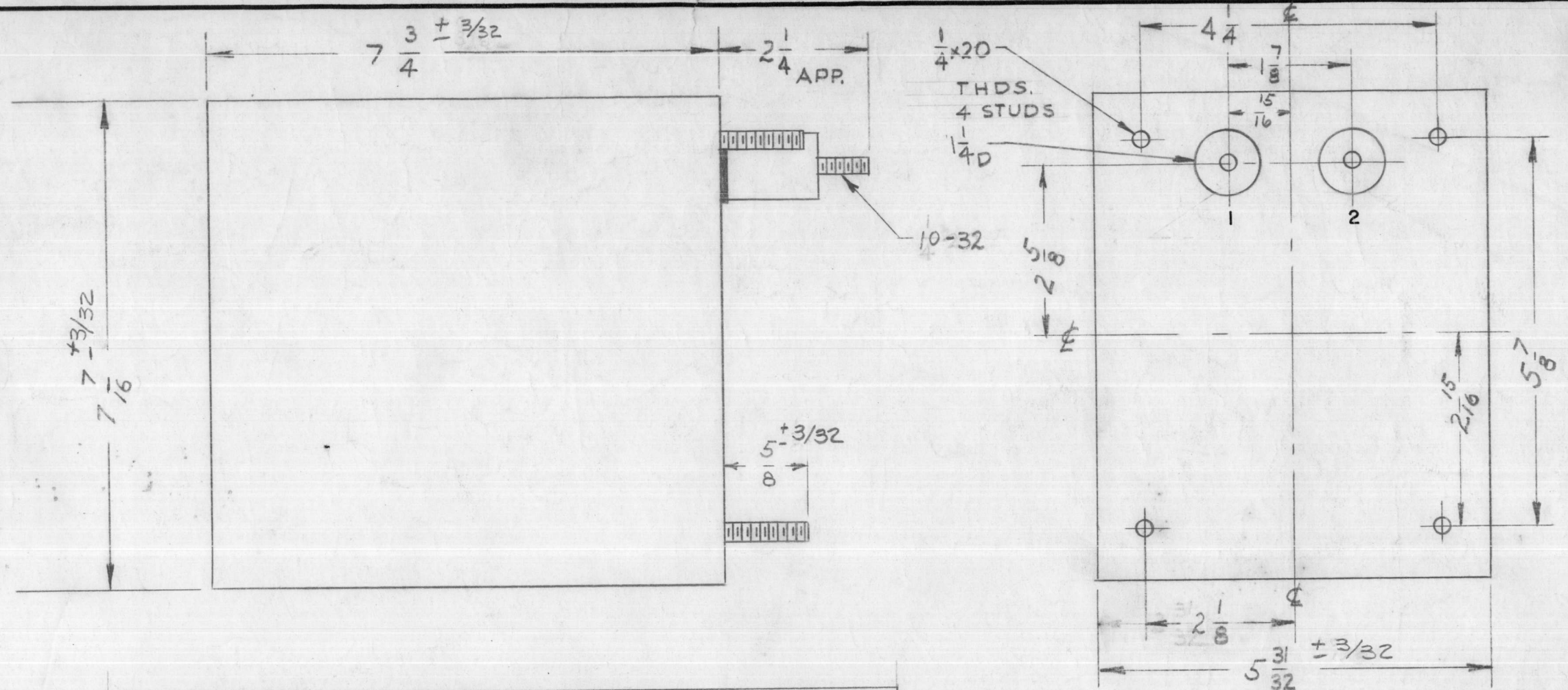
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
STOCK SIZE		TRANSFORMER POWER STEP-UP & STEP DOWN, L.V. BIAS SUPPLY	
MATERIAL			
TYPE & TEMPER. HEAT TREAT. SPEC.		DRAWN: [Signature] CHECKED: [Signature] FINAL APPROVAL: [Signature]	
FINISH & SPEC. NO.		ELEC. DES. APP. MECH. DES. APP. TF-198 E	

TF-199 D

THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK
TF-199



MIL-T-27A
GRADE 1 CLASS R FAMILY 04
10,000 V RMS TEST



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MAMARONECK, NEW YORK

ELECTRICAL SPECIFICATIONS:

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

MECHANICAL SPECIFICATIONS:

CASE- RECTANGULAR, STEEL, MIL TYPE YY, HERMETICALLY SEALED.
FINISH- T M C SMOOTH GREY ENAMEL, (S115), EXCEPT TERMINAL END.
SIZE: 5 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 STAMPER IN BLACK AS SHOWN.

~~REACTOR SHALL BE IN ACCORDANCE WITH MIL-T-27A AND APPENDICES.~~

~~GRADE 1 CLASS R FAMILY 04
MIL TYPE YY~~

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	1	±3/32 TOL. CLARIFIED. DEL. MIL SPEC NOTE	9-27-63	10101	ED	SMY	AMB
C	1	ADDED TO SPECS. DC RESISTANCE "20 OHMS"	8-8-63	9738	HC	SMY	LB
B	1	NOTE ADDED (MIL T-27A)	6-30-60	2572	PH	HO	LB
A	-	10-32 THDS WERE V4-20	11/19/58	-	JL	PG	AMB
ISSUE ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	
TOLERANCES		SCALE:		2-1298			
DEC. DIM. ±		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES					
FRAC. DIM. ± 1/64							
ANGULAR DIM. ±							

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

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
STOCK SIZE			
REACTOR, 5 HENRY, 1A.			
MATERIAL			
TYPE & TEMPER		HEAT TREAT. SPEC.	FINAL APPROVAL
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
			TF-199 D