

REQ. PER UNIT	USED ON			A-1005
	MODEL	ASS'Y. NO.	DATE	
1	VOX		5-9-55	

NOTE:  
RY-105 RING "O" TYPE  
IS PART OF MOTOR ASSY. A-1005

1	7	RY-105	RING "O" TYPE
2	6	PM-195	STUD, PULLEY
1	5	SC-113	STUD, MOTOR
1	4	SP-115	SPRING, MOTOR SUPPORT
2	3	TE-110-3	LUG-SOLDER
1	2	PM-194	MOTOR PULLEY
1	1	MO-100	MOTOR, REVERSIBLE

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. ±							

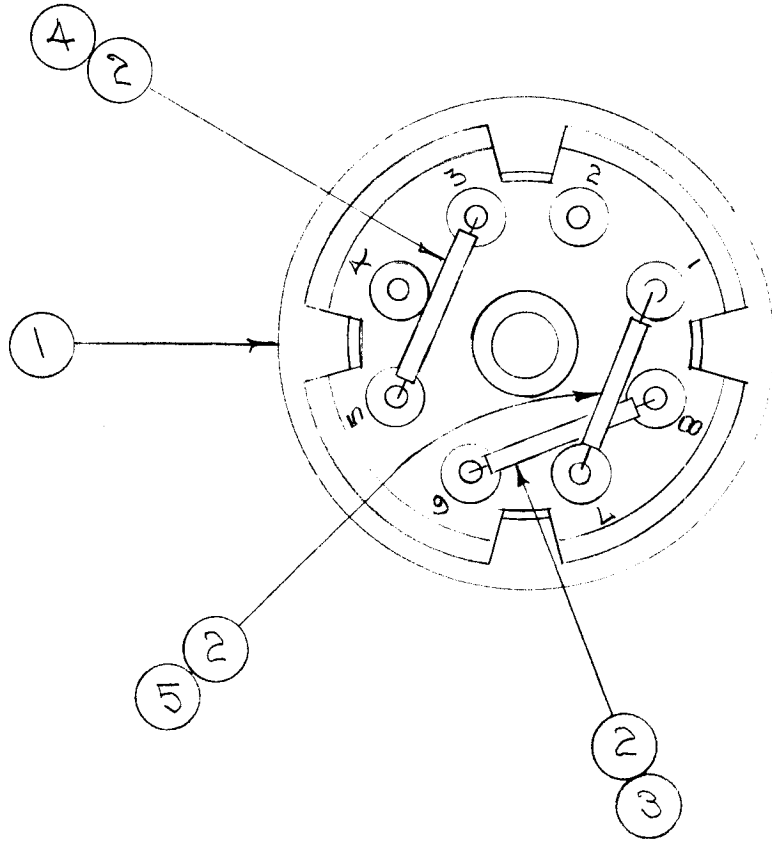
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
STOCK SIZE		THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
MATERIAL		MOTOR ASSEMBLY	
		VOX	
TYPE & TEMPER		HEAT TREAT. SPEC.	FINISH & SPEC. NO.
DRAWN		CHECKED	ELEC. DES. APP. MECH. DES. APP.
JAD 5/16/55		CASSY 9/1/55	AJJ
			A-1005

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

A-1021 D

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

REQ. PER UNIT	USED ON			
	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
1	GPR	297		5-31-55



X	6	BS-100	SOLDER, SOFT	
X	5	PX-104-3-022	INSULATION, SLEEVING (RED)	
X	4	PX-104-5-022	" " (BRN)	
X	3	PX-104-1-022	" " (BLK)	
X	2	WL-100-4	WIRE, BUSS BAR 18GA	
1	1	PL-127	CONNECTOR, 8 PRONG	
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			<b>THE TECHNICAL MATERIEL CORP.</b>	
STOCK SIZE			MAMARONECK. NEW YORK	
			8 PRONG CONNECTOR ASSY.	
MATERIAL		WEIGHT PER PC.	G.P.R	
TYPE & TEMPER			CDD. 5-31-55	<i>WJC</i>
HEAT TREAT. SPEC.			DRAWN	ELEC. DES. APP. MECH. DES. APP.
FINISH & SPEC. NO.			G.T.O	
			CHECKED	
			FINAL APPROVAL	
			A-1021 D	

D		DECIMAL DEL IT 34,5	10.18.66	17039	WHD	<i>[Signature]</i>	<i>[Signature]</i>
C	1	ITEM #4 WAS 16 GA.	2.13.65	-	BR	<i>[Signature]</i>	<i>[Signature]</i>
B	1	ITEM 2 WAS WL-100-7	12/8/55	2	FADE	<i>[Signature]</i>	G.T.O.
A	1	CONNECTION T TO 1 WIRE BETWEEN 7 & 4	10/10/55	1	<i>[Signature]</i>	<i>[Signature]</i>	G.T.O.
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

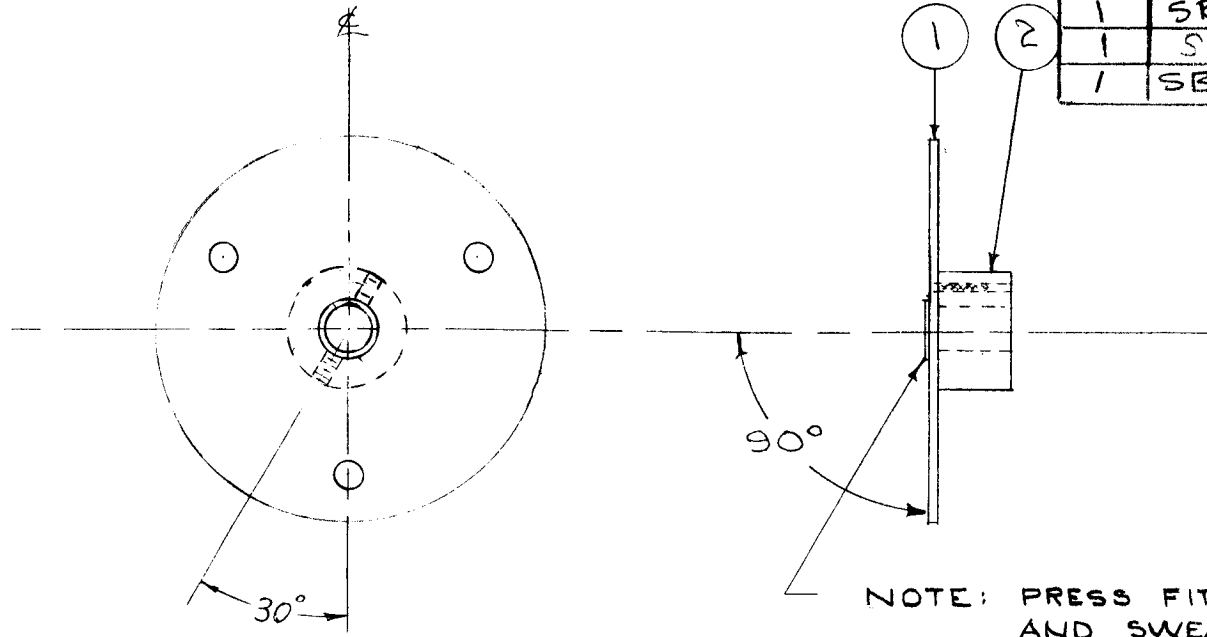
TOLERANCES		SCALE
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

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

A-1023 B

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

REQ. PER UNIT	USED ON			
	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
2	GPR	297	A-1024	6-7-55
1	GSB-1	MARK I	A-1352	9-14-56
1	SBE-1	A-1396	A-1439	7-18-57
1	SBE-2	A-1516	A-1439	5-5-58
1	SBE-3	AP-100	A-1439	11-30-59



NOTE: PRESS FIT ITEM 1 TO ITEM 2 AND SWEAT SOLDER.

NOTE POSITION OF HUB RELATIVE TO SUPPORT PLATE

1	2	PM-327	HUB	
1	1	MS-586	SUPPORT PLATE	
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK. NEW YORK	
			SUPPORT PLATE ASSEMBLY	
		STOCK SIZE		
		MATERIAL	WEIGHT PER PC.	
		TYPE & TEMPER	CD. 6-7-55	
		HEAT TREAT. SPEC.	###	
		CADMIUM PLATE .0003 FINISH & SPEC. NO.		
			DRAWN	ELEC. DES. APP. MECH. DES. APP.
			CHECKED	FINAL APPROVAL
			A-1023	B

B	2	SOLDER NOTE ADDED	5/9/57	2	SC.	HWD	AW
	1	ITEM 3 DELETED					
A	1	*51 DRILL HOLE WAS ON E	11/16/58	1	B	COB	UDC
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE				
ALL OTHERS			DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.				
DEC. DIM. ±							
FRAC. DIM. ± 1/64							
AN ULAR DIM. ± 5°							

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

A-1025 E

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

REQ. PER UNIT

USED ON

MODEL

PROJECT NO.

ASS'Y. NO.

DATE

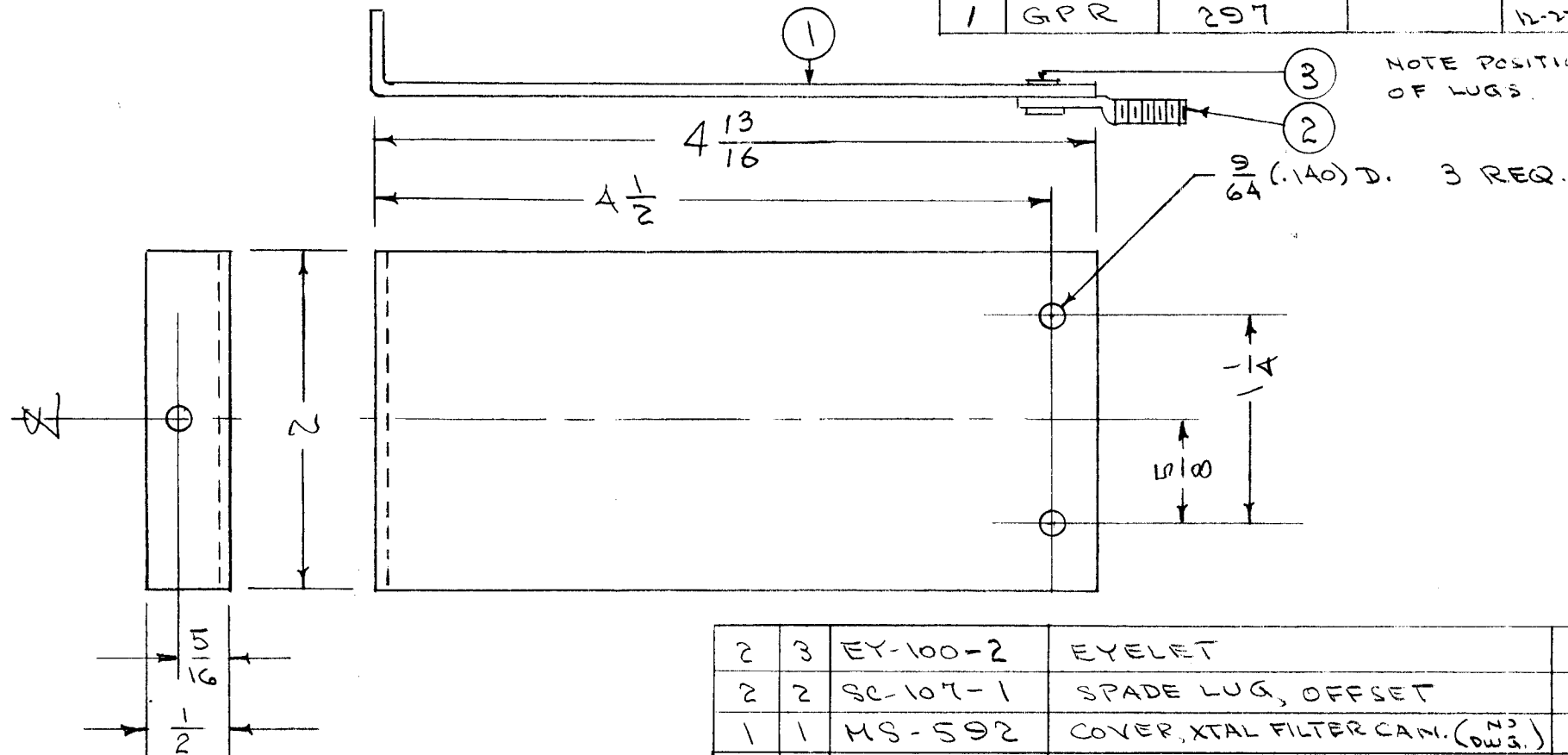
1

GPR

297

12-22-54

NOTE POSITION OF LUGS.



REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
2	3	EY-100-2	EYELET	
2	2	SC-107-1	SPADE LUG, OFFSET	
1	1	MS-592	COVER, XTAL FILTER CAN. (NO DWG.)	
.064			THE TECHNICAL MATERIEL CORP.	
STOCK SIZE			MAMARONECK. NEW YORK	
ALUMINUM			COVER, XTAL FILTER CAN.	
MATERIAL			GPR	
WEIGHT PER PC.			CDD. 12-22-54	
TYPE & TEMPER			ELEC. DES. APP. MECH. DES. APP.	
HEAT TREAT. SPEC.			G.T.O	
FINISH & SPEC. NO.			FINAL APPROVAL	
S404 IRIDITE			SUPERCEDES	
MS-592			A-1025	
			E	

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
E	1	FIN: S404 IRIDITE WAS S101 CAUSTIC QP	12-7-59	1001	P		
D	1	4 13/16 DIM WAS 4 7/8	6/1/59	1076	J.C.B.		
C	1	ITEM 3 WAS EY-100-1	6/5/56	3			
B	1	4 7/8 WAS 4 13/16	7/18/55	2			
A	2	4 13/16 WAS 5/16	6/16/55	1			
A	1	4 1/2 WAS 4 3/4					

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

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

A-1026

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

REQ. PER UNIT

USED ON

MODEL

PROJECT NO.

ASSY. NO.

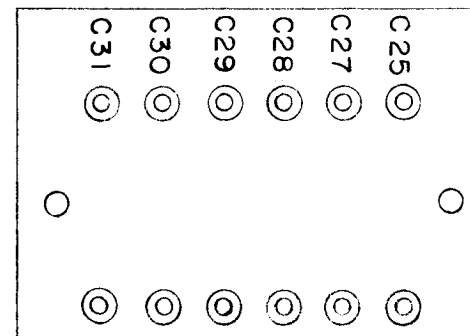
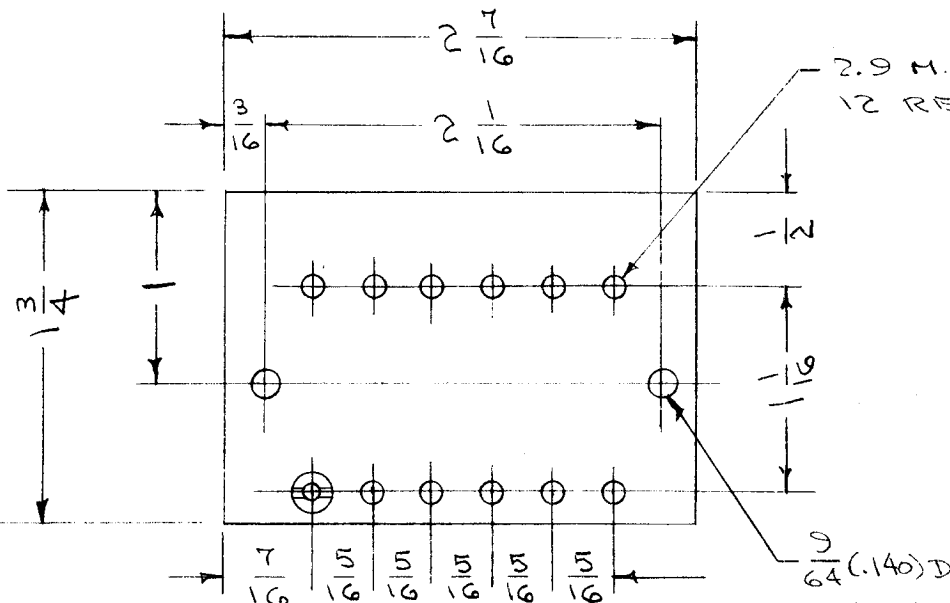
DATE

1

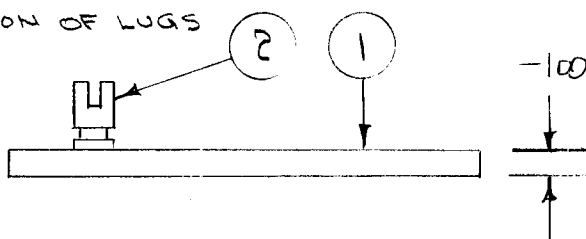
FSS

A-1027

6-15-55



NOTE POSITION OF LUGS



LETTERING TO BE 1/8 HIGH GOTHIC, COATED WITH S-113 FUNGUS RESISTANT VARNISH BEFORE LUGS ARE STAKED.

MARKING PROCESS AS PER T.M.C. SPECIFICATION 5.107

12	2	TE-109-3	TERMINAL	
1	1	PX-286	BOARD, TERMINAL (DWG.)	
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
1/8 THK			THE TECHNICAL MATERIEL CORP.	
STOCK SIZE			MAMARONECK. NEW YORK	
PHENOLIC		—H—	TERMINAL BOARD ASSEMBLY,	
MATERIAL		WEIGHT PER PC.	TIME BASE SWITCH	
XXXP LAMINATE			CDD 6-15-55	
TYPE & TEMPER			2B	WJC
—H—			DRAWN	ELEC. DES. APP. MECH. DES. APP.
HEAT TREAT. SPEC.			WJC	A.J.J.
NATURAL			CHECKED	FINAL APPROVAL
FINISH & SPEC. NO.				A-1026

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

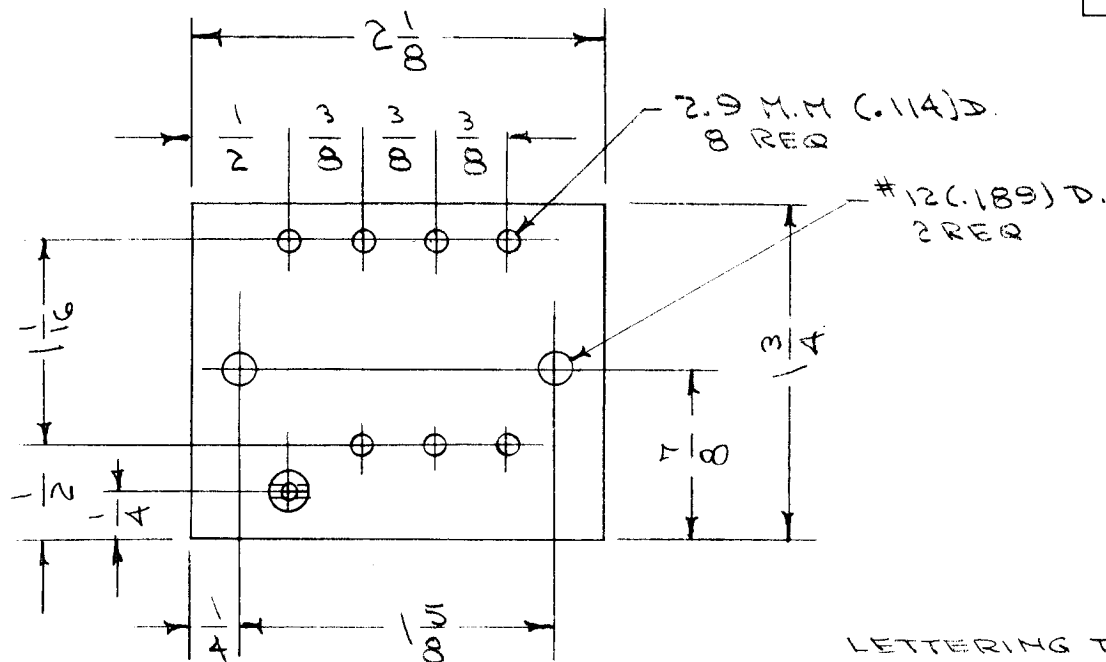
TOLERANCES			SCALE				
ALL OTHERS	DEC. DIM. ±	FRAC. DIM. ± 1/64	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.				
	ANGULAR DIM. ±						

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

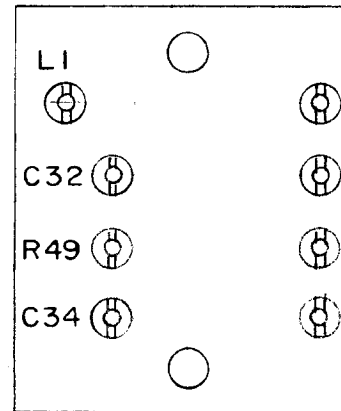
A-1028 A

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

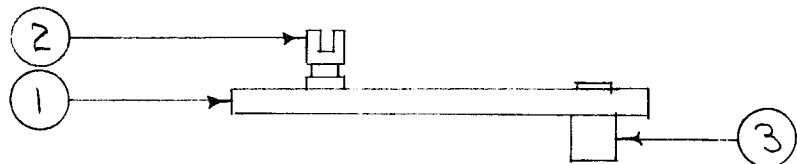
REQ. PER UNIT	USED ON			
	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
1	FSS			7-22-55



MARKING PROCESS: AS PER TMC SPECIFICATION S-7:7



LETTERING TO BE 1/8 HIGH BLACK GOTHIC, COATED WITH S-113 FUNGUS RESISTANT BEFORE LUGS ARE STAKED.



2	3	TE-108-3	STAND OFF	
8	2	TE-109-3	TERMINAL	
1	1	PX-280	TERM. BD. (NO DRAWING)	
REQ. ITEM	PART NO.		DESCRIPTION	SYMBOL
1/8 THK.			THE TECHNICAL MATERIEL CORP.	
STOCK SIZE			MAMARONECK. NEW YORK	
PHENOLIC		—H—	XTAL. OSC. TERMINAL BOARD	
MATERIAL		WEIGHT PER PC.	SUB ASSEMBLY FSS	
XXXX LAMINATE			CDD 7-22-55	
TYPE & TEMPER			DRAWN	ELEC. DES. APP.
HEAT TREAT. SPEC.			MECH. DES. APP.	
SEE ABOVE			CHECKED	
FINISH & SPEC. NO.			FINAL APPROVAL	

A	1	ITEM 3 ADDED	8/9/55	1	CDD	BR	WJC
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

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

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

A-1036

A

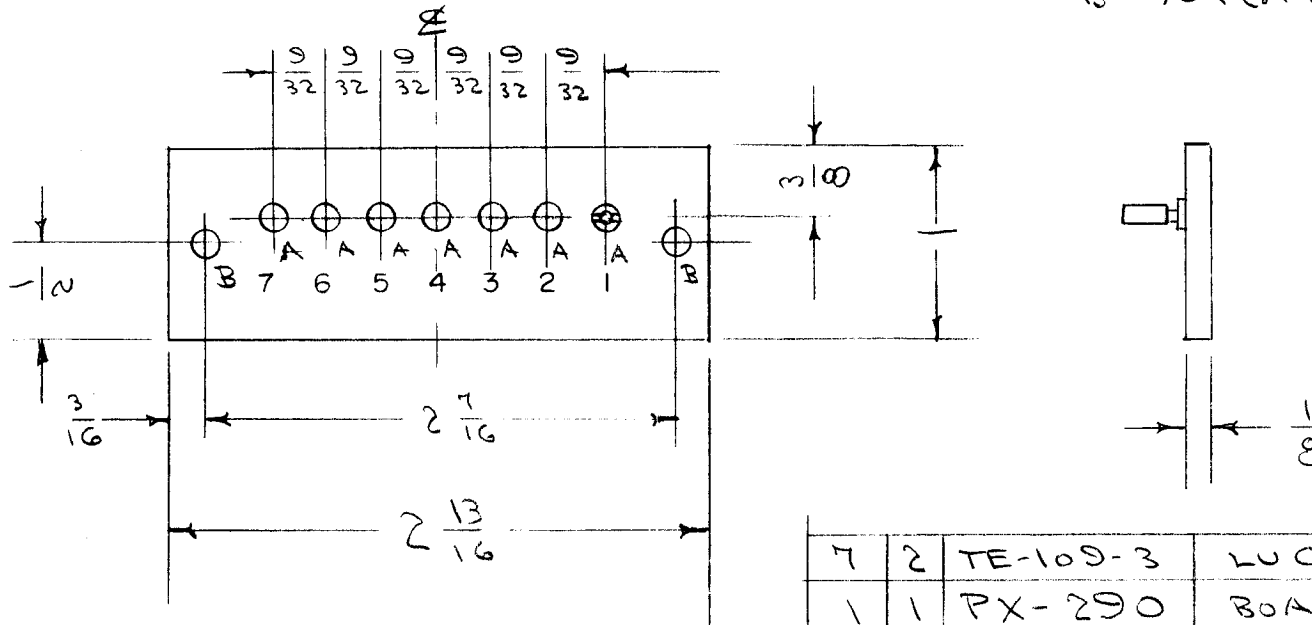
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT	USED ON			
	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
1	FSS			5-11-55

MARKING PROCESS: AS PER T M C SPECIFICATION S-727

A - 2.9 M.M  
B - 11/64 (.140) D.

7 HOLES REQ.  
2 " "



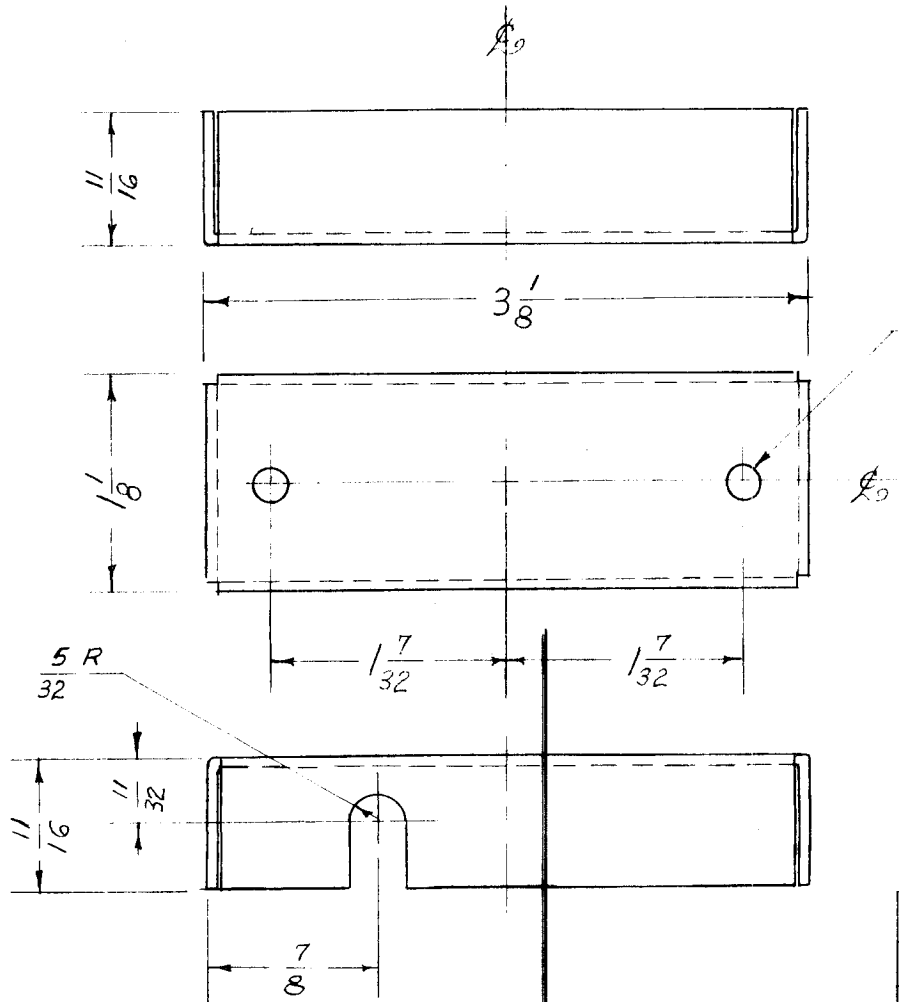
LETTERING TO BE 1/8 HIGH BLACK GOTHIC COATED WITH 3-113 FUNGUS RESISTANT VARNISH BEFORE LUGS ARE STAKED

7	2	TE-109-3	LUG	
1	1	PX-290	BOARD, TERMINAL (NO DWG)	
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
1/8 THK			THE TECHNICAL MATERIEL CORP.	
STOCK SIZE			MAMARONECK, NEW YORK	
PHENOLIC			TERM. BD., HEATER	
MATERIAL		WEIGHT PER PC.		
XXXXP LAMINATE				
TYPE & TEMPER		ODD. FINISH	2B	
HEAT TREAT. SPEC.		DRAWN	ELEC. DES. APP.	MECH. DES. APP.
SEE ABOVE		HECKED	KZ A.J.J.	
FINISH & SPEC. NO.		A-1036		A

A	1	LUG TURNED 90°	2-18-57	1	SC.	16	AM
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

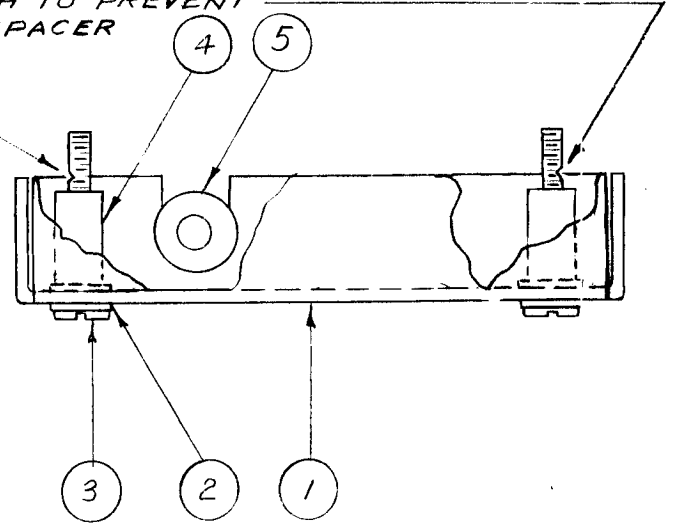
TOLERANCES		SCALE
ALL	DEC. DIM. ± FRAC. DIM. ± AN ULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

REQ. PER UNIT	USED ON			A-1042	A
	MODEL	ASS'Y. NO.	DATE		
1	FSS		6-23-55		



SMALL NOTCH TO PREVENT ESCAPE OF SPACER

11/64 (.171) D. 2 HOLES



1	5	EY-102-2	GROMMET
2	4	TE-135-3	SPACER, THREADED
2	3	SCBS0632BC16	SCREW, MACHINE
4	2	FW06MRC	WASHER, FLAT
1	1	MS-656	OVEN A.C. SHIELD (NO DWG.)

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
A	1	S404 IRIDITE WAS S101 CAUSTIC DIP	12-7-59	1001	P		EMN
TOLERANCES		SCALE:					
DEC. DIM. ±		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.					
FRAC. DIM. ± 1/64		REMOVE ALL BURRS AND SHARP EDGES					
ANGULAR DIM. ±							

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
.051		THE TECHNICAL MATERIEL CORP.	
STOCK SIZE		MAMARONECK. NEW YORK	
ALUMINUM		OVEN A.C. SHIELD ASS'Y.	
MATERIAL		MODEL FSS	
525-H32	---	DATE 6-23-55	DRAWN J.M.D.
TYPE & TEMPER	HEAT TREAT. SPEC.	CHECKED	FINAL APPROVAL
S-404-IRIDITE		W.K.	A-1042
FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.	A



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

A-1045

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

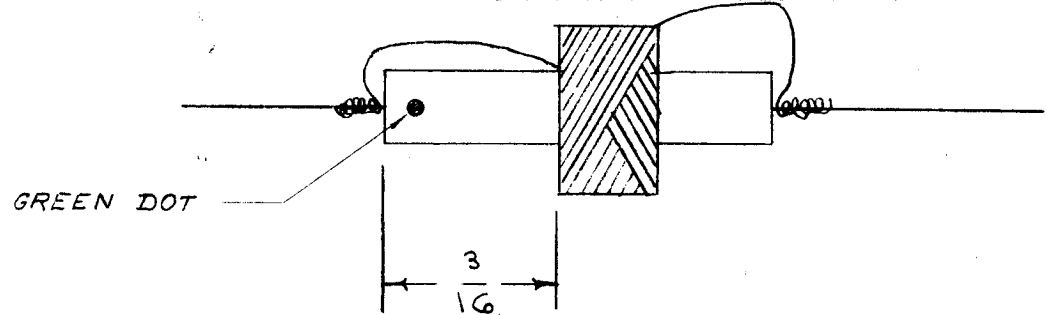
REQ. PER UNIT	USED ON			
	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
3	GPR	297		6-27-55
5	SBE-1			8-22-57
6	SBE-2			5-5-58
18	RFA-1			6-17-58
1	RTF-2	P/A		12-9-59

WINDING  
100 TURNS OF ITEM 2  
UNIVERSAL WOUND

MACHINE DATA  
DRIVER GEAR 69  
CAM " 105  
CAM " .250

ELECTRICAL DATA  
L - 128  $\mu$ h (116 - 140)  
Q - > 100  
F - 790 K.C.

FABRICATION  
STAKE LEADS WITH ITEM 4.  
BAKE DRY AT 100° F.  
SOLDER LEADS AS SHOWN.  
COAT WITH ITEM 3.  
BAKE DRY AT 100° F.  
COLOR CODE AS SHOWN



X	5	BS-100	SOLDER, SOFT	
X	4	GL-103	CEMENT	
X	3	GL-102	Q MAX	
X	2	WI-104-54-SCRS	WIRE, LITZ	
1	1	CI-114	CORE, POWDERED IRON	

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
<b>THE TECHNICAL MATERIEL CORP.</b> MAMARONECK, NEW YORK <b>CL-177, ASS'Y.</b> (COIL, RF, FIXED, 128 $\mu$ h)			
STOCK SIZE			
MATERIAL		WEIGHT PER PC.	
TYPE & TEMPER		ELEC. DES. APP. MECH. DES. APP.	
HEAT TREAT. SPEC.		FINISHED	
FINISH & SPEC. NO.		A-1045	

D	2	TOL ADDED TO "L"	7/21/56	4	JAC	P.L.K.	A.J.J.
C	1	ITEM 2 WAS SNE	5/15/56	3	JAC	QAS	A.J.J.
B	2	L 31, Q-TOL ADDED	1-30-56	2	PB	HH	A.J.J.
A	1	REQ. WAS 2 PER UNIT	1-6-58	1	PB	HH	A.J.J.
A	1	GREEN DOT ADDED	1-6-58	1	PB	HH	A.J.J.

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE					
ALL OTHERS		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					

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

A-1060

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

REQ. PER UNIT

USED ON

MODEL

PROJECT NO.

ASS'Y. NO.

DATE

2

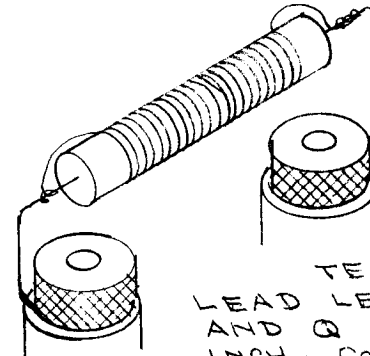
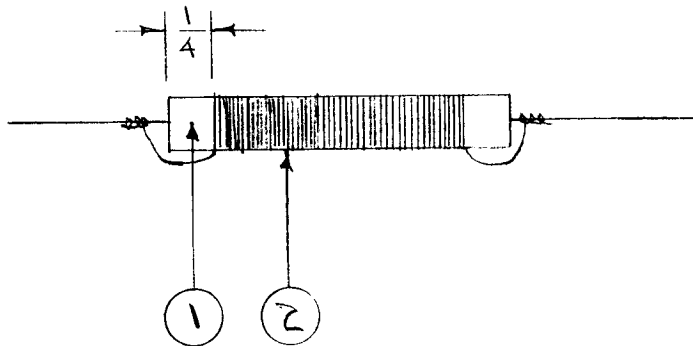
FSS

7-25-55

WINDING DATA

86 CLOSE WOUND TURNS OF #30 D.S.C. (WI-107-11)

FOR TEST USE BOONTON Q METER. MEASURE INDUCTANCE AT 2.5 MC AGAINST STANDARD L



TEST DATA  
LEAD LENGTH BETWEEN COIL AND Q METER SHALL BE ONE INCH. COIL TO BE DIRECTLY OVER TERMINALS.  
Q - 120 MIN.  
L - 45 μh ± 1 μh

- 1- STAKE COIL ENDS TO CORE WITH ITEM 5
- 2- BAKE FOR 1 HOUR AT 100° C
- 3- COAT COIL WITH ITEM 4
- A- BAKE FOR 1 HOUR AT 100° C

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
X	5	GL-103	CEMENT	
X	4	GL-104-2	INDOLEX U-83	
X	3	BS-100	SOLDER, SOFT	
X	2	WI-107-11	WIRE #30 D.S.C.	
1	1	CI-102-1	CORE	

THE TECHNICAL MATERIEL CORP.

MAMARONECK. NEW YORK

INDUCTOR, V.F.O.

F.S.S. L2 L3

TYPE & TEMPER

CDD 7-2555

ZB

WJ

DRAWN

ELEC. DES. APP.

MECH. DES. APP.

HEAT TREAT. SPEC.

WJ

WZ

A.J.J.

CHECKED

FINAL APPROVAL

FINISH & SPEC. NO.

A-1060

ISSUE	ITEM	CHAN ED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

TOLERANCES

SCALE

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

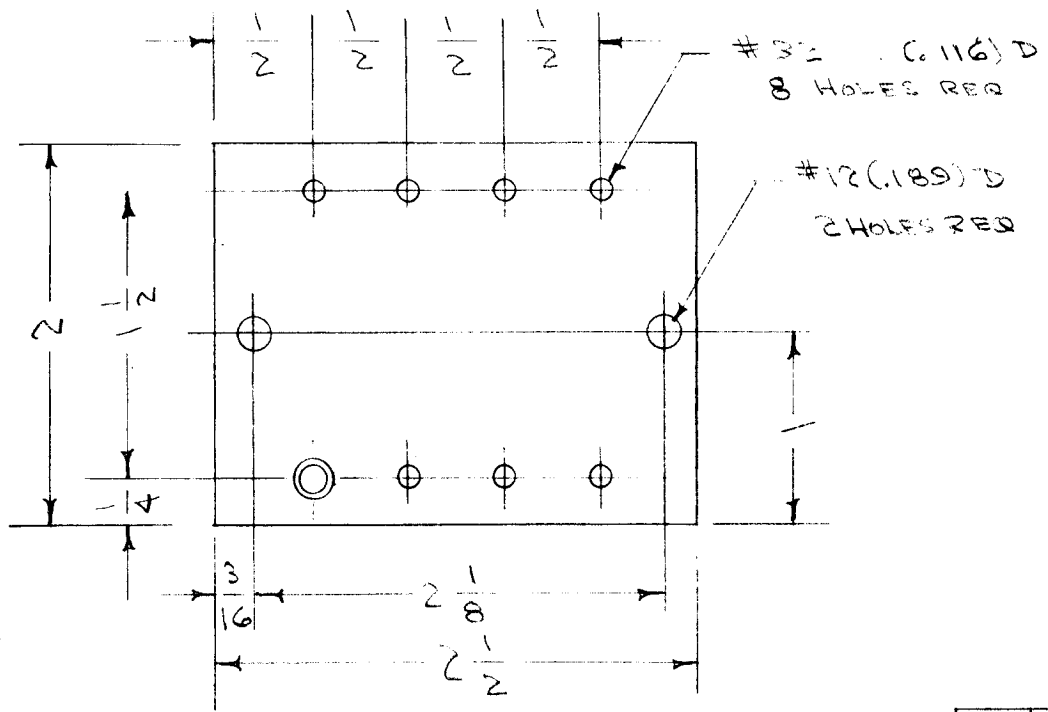
ALL OTHERS  
DEC. DIM. ±  
FRAC. DIM. ±  
ANGULAR DIM. ±

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

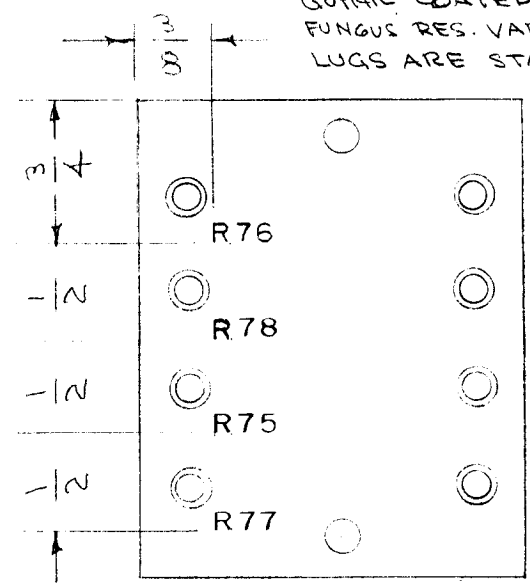
A-1062 A

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

REQ. PER UNIT	USED ON			
	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
1	FSS		A-1063	7-28-55

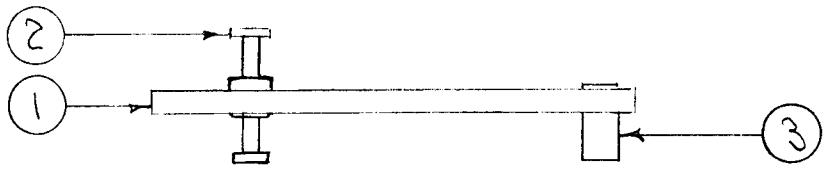


LETTERING TO BE 1/8 HIGH BLACK GOTHIC COATED WITH S-113 FUNGUS RES. VARNISH BEFORE LUGS ARE STAKED.



MARKING PROCESS: AS PER TMC SPECIFICATION S-727

NOTE POS. OF LUGS

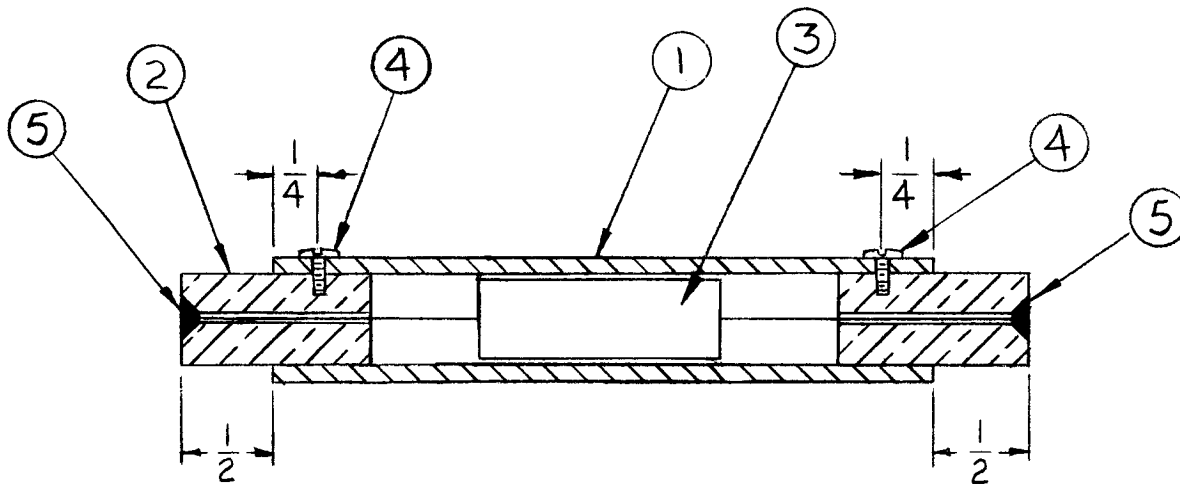


2	3	TE-108-B	STAND OFF	
8	2	TE-131-4	TERMINAL	
1	1	PX-278	TERM. BD. (NO DRAWING)	
REQ. ITEM	PART NO.		DESCRIPTION	SYMBOL
1/8 THK.			THE TECHNICAL MATERIEL CORP.	
STOCK SIZE			MAMARONECK. NEW YORK	
PHENOLIC		#	LOW VOLTAGE DIVIDER TERM.	
MATERIAL		WEIGHT PER PC.	BOARD SUB ASSY. FSS	
XXXXP LAMINATE			COD. 7-28-55 DB	
TYPE & TEMPER			DRAWN	
#			ELEC. DES. APP. MECH. DES. APP.	
HEAT TREAT. SPEC.			KZ AJJ	
SEE ABOVE			CHECKED	
FINISH & SPEC. NO.			FINAL APPROVAL	
			A-1062 A	

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
A	1	ITEM 3 ADDED	8/5/55	1	WSS	DR	WJ

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

REQ. PER UNIT	USED ON			A1070	M
	MODEL	ASS'Y. NO.	DATE		
	RTB SERIES				



- INSTRUCTION:
- ON ASSEMBLY USE DRILL #47 (.078D) FOR 1/4 DEEP HOLES FOR ITEM 4.
  - CUT ITEM 3 LEADS OFF FLUSH WITH ENDS OF ITEMS 2.

CASE STAMP	ITEM 3	ASSY. NO.
RR115-100	RR116-100W	A1070-100
RR115-140	RR116-140W	A1070-140
RR115-150	RR116-150W	A1070-150
RR115-175	RR116-180W	A1070-175
RR115-180	RR116-180W	A1070-180

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
X 5	BS100	SOLDER, TIN ALLOY	
2 4	SFB0256SN3	SCREW, THREAD CUTTING	
1 3	SEE CHART	RESISTOR, FIXED	
2 2	PM354	CONTACT, RESISTOR	
1 1	PX292	CASE, RESISTOR	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		SCALE	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	TOLERANCES	FRACTIONS ± 1/64 ANGLES ± 0° 30'	CODE

MATERIAL		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE		RESISTOR CASE ASSY.	
MATERIAL		RR115	
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
		J. L. L...	@ 1-15-65
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.

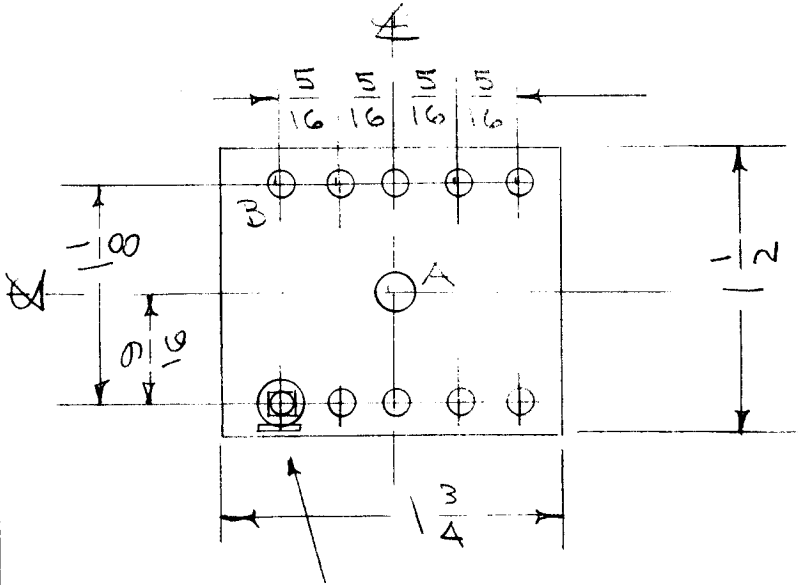
M	ADD RR115-175	7-9-75	21253	GDL	CL	CL
L	DELE. IT. 6 RR115-175 CHG RR115-181 TO -180	6-23-69	19492	GE	LL	EFM
K	ON CHART, ADD. ASSY. NO. COL. #RR115-181	5-4-66	16209	HLA	CL	LL
J	SFB0256SN3 WAS SFB0256AW4 (ITEM NO. 4)	4-12-66	16073	WVW	CL	LL
H	COMPLETELY REVISED & REDRAWN	1-8-65	12957	J.P.	@	

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

A-1075

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

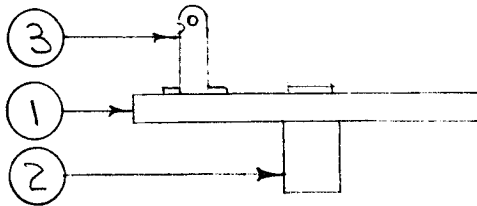
REQ. PER UNIT	USED ON			
	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
1	GPR		A-1078	8/22/55



A - No. 12 (.189) DIA. 1 HOLE REQ.  
 B - No. 29 (.140) " 10 " "

THIS DRAWING FOR MARK I SERIES ONLY.

NOTE POSITION OF LUGS.



10	3	TE-151	LUG	
1	2	TE-108-1	STANDOFF	
1	1	PX-294	TERM. BD. (NO DWG)	
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
1/16 THK.			THE TECHNICAL MATERIEL CORP.	
STOCK SIZE			MAMARONECK. NEW YORK	
PHENOLIC			TERMINAL BOARD SUB ASSY.	
MATERIAL		WEIGHT PER PC.	HIGH PASS FILTER GPR	
XXXXP LAMINATE			CDD. 8/22/55	
TYPE & TEMPER			THH	W02
			DRAWN	ELEC. DES. APP.
			MECH. DES. APP.	
HEAT TREAT. SPEC.			G.T.O.	
NATURAL			CHECKED	
FINISH & SPEC. NO.			FINAL APPROVAL	
			A-1075	

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

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

A-1076 D

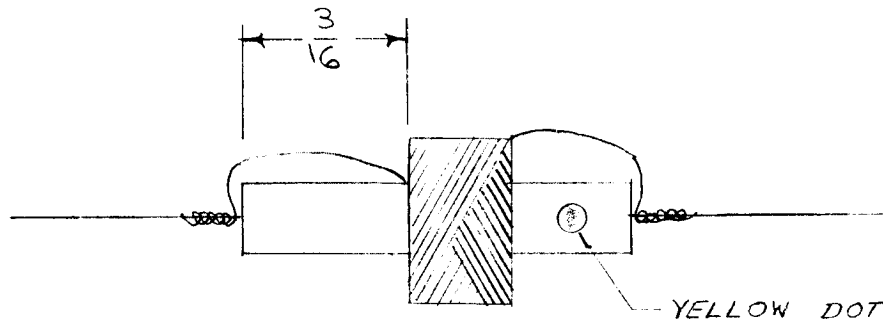
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION.  
REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT	USED ON			
	MODEL	SYMBOL PROJECT NO.	ASS'Y. NO.	DATE
2	GPR	L28, L30		8-22-55
1	SBE-1	L131		11-1-57
7	RFA-1	L210, 214, 218 225, 239, 240, 241		6-19-58
1	RTF-2	P/A		12-9-58

WINDING  
45 TURNS OF ITEM 2  
UNIVERSAL WOUND

MACHINE DATA  
DRIVER GEAR 69  
CAM GEAR 105  
CAM .250

ELECTRICAL DATA  
L - 26.4  $\mu$ hy (23.8 - 29.0)  
Q - > 100  
F - 2.5 mc



FABRICATION  
STAKE LEADS WITH ITEM 4  
BAKE DRY AT 100°F  
TEST THE UNIT AND REMOVE 1 TO 4  
TURNS IF NECESSARY TO MEET SPEC.  
SOLDER LEADS AS SHOWN  
COAT WITH ITEM 3  
BAKE DRY AT 100°F  
COLOR CODE AS SHOWN

X	5	BS-100	SOLDER, SOFT	
X	4	GL-103	CEMENT	
X	3	GL-102	Q MAX	
X	2	WS-104-54 SCRS	WIRE, LITZ	
1	1	CI-114	CORE, POWDERED IRON	
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
STOCK SIZE			CL-180 ASS'Y.	
MATERIAL		WEIGHT PER PC.	(coil, RF, Fixed, 26.4 $\mu$ hy)	
TYPE & TEMPER		CDD. 8/22/55	###	WJ
HEAT TREAT. SPEC.		J.A. De	G.T.O.	
FINISH & SPEC. NO.		CHECKED	FINAL APPROVAL	
			A-1076	D

D	1	on FABRICATION NOTE - TEST UNIT AND ---- ADDED	7-10-61	5229	G.D.L.	JCB	
C	2	45 Turns was 43	7/3/56	3	J.M.R.	P.L.X.	A.S.J.
B	1	ITEM 1 WAS CF-116	5/15/56	2	J.M.R.	C.S.S.	A.S.J.
A	1	COLOR CODE ADDED	9/20/55	1	J.B.	J.M.R.	A.S.J.
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

TOLERANCES		SCALE
ALL OTHERS	DEC. DIM. $\pm$ FRAC. DIM. $\pm$ ANGULAR DIM. $\pm$	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

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

A-1077 D

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

REQ. PER UNIT

USED ON

MODEL

PROJECT NO.

ASS'Y. NO.

DATE

1

GPR

8/22/55

WINDING.

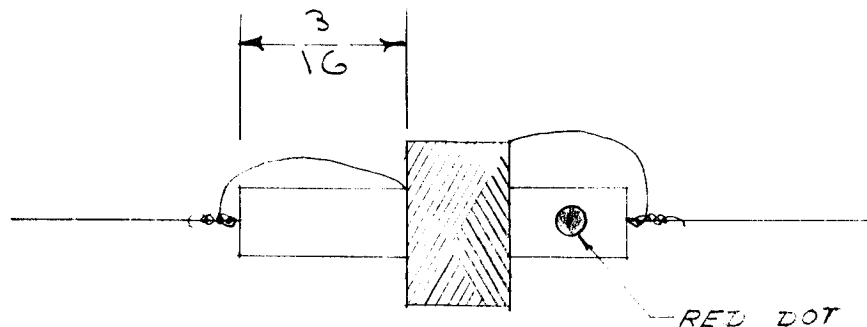
31 TURNS OF ITEM 2  
UNIVERSAL WOUND

MACHINE DATA

DRIVER GEAR 69  
CAM GEAR 105  
CAM .250

ELECTRICAL DATA

L - 13.2  $\mu$ hy (11.9-14.5)  
Q - > 110  
F - 2.5 mc



FABRICATION

STAKE LEADS WITH ITEM 4  
BAKE DRY AT 100° F  
SOLDER LEADS AS SHOWN  
COAT WITH ITEM 3  
BAKE DRY AT 100° F  
COLOR CODE AS SHOWN

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
X	5	BS-100	SOLDER, SOFT	
X	A	GL-103	CEMENT	
X	3	GL-102	Q-MAX	
X	2	WI-104-541-SCQS	WIRE, LITZ	
1	1	CI-114	CORE, POWDERED IRON	

THE TECHNICAL MATERIEL CORP.

MAMARONECK. NEW YORK

COIL, HIGH PASS FILTER

MATERIAL

WEIGHT PER PC.

L29

GPR

TYPE & TEMPER

CD. 8/22/55

###

WD

DRAWN

ELEC. DES. APP.

MECH. DES. APP.

HEAT TREAT. SPEC.

CHECKED

G.T.O.

FINAL APPROVAL

FINISH & SPEC. NO.

A-1077

D

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
D	2	31 Turns was 30 T	7/31/56	4	JAD	P.J.K.	A.J.J.
	1	TOL. Added To "L" 110 was 130					
C	1	ITEM 1 WAS CF-116	5/15/56	3	JAD	CS	A.J.J.
B	1	L + Q TOL. Added	1/31/56	2	B	###	A.J.J.
A	1	COLOR CODE ADDED	P.M.C.	1	MS	JAD	WD

TOLERANCES

SCALE

ALL OTHERS

DEC. DIM.  $\pm$   
FRAC. DIM.  $\pm$   
AN ULAR DIM.  $\pm$

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

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

A-1078

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

REQ. PER UNIT

USED ON

MODEL

PROJECT NO.

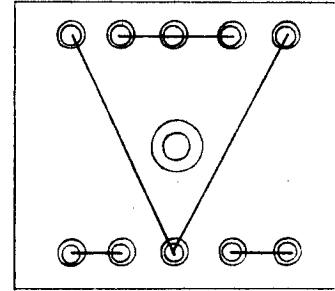
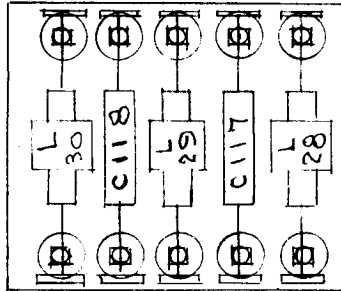
ASSY. NO.

DATE

1

GPR

3/23/54



THIS DRAWING FOR MARK I SERIES ONLY.

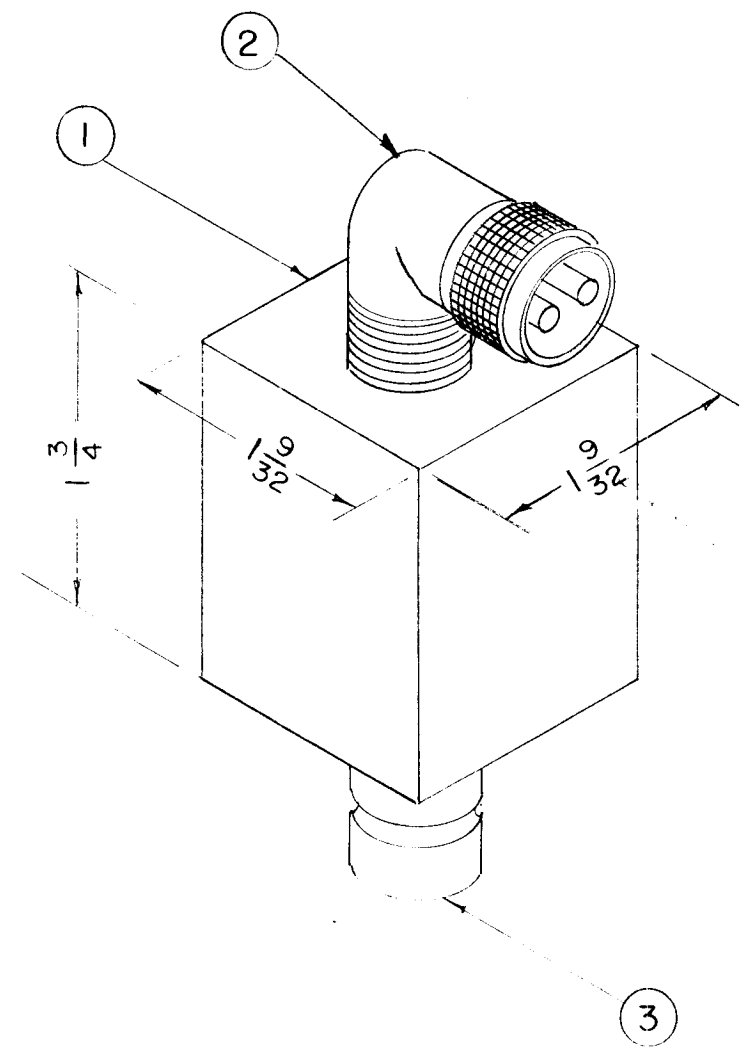
X	6	BS-100	SOLDER, SOFT	
?	5	2M10921500G	CAPACITOR, FIXED	C117 C118
1	4	A-10717	COIL ASSY.	L29
?	3	A-10716	COIL ASSY.	L30 L28
X	2	WL-100-11	WIRE, BUSS BAR 27GA.	
1	1	A-10715	TERM. BD. SUB ASSY.	

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			<b>THE TECHNICAL MATERIEL CORP.</b>	
STOCK SIZE			MAMARONECK. NEW YORK	
			TERMINAL BOARD ASSEMBLY	
MATERIAL		WEIGHT PER PC.	HIGH PASS FILTER GPR	
TYPE & TEMPER			DD. 3/23/54	HTT
			WJC	
HEAT TREAT. SPEC.			DRAWN	ELEC. DES. APP.
			G.T.O.	
FINISH & SPEC. NO.			CHECKED	FINAL APPROVAL
			A-1078	

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.				



REQ. PER UNIT	USED ON			A-1086
	MODEL	ASS'Y. NO.	DATE	



**MECHANICAL SPECIFICATIONS**

CASE - STEEL  
 FILLER - COMPOUND  
 FINISH - GREY

**ELECTRICAL SPECIFICATIONS**

INPUT IMP. - 70Ω UNBALANCED  
 OUTPUT IMP. - 300Ω BALANCED  
 FREQ. RANGE - 2 TO 54 mc.  
 RESPONSE - 2 TO 30 mc. WITHIN 3DB  
 2 TO 54 mc. WITHIN 5DB

1	3	UG-625/U	RECEPTACLE
1	2	UG-104/U	ADAPTER
1	1	BX-132	CASE


REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
STOCK SIZE		<b>THE TECHNICAL MATERIEL CORP.</b> MAMARONECK, NEW YORK <b>SPECIFICATIONS</b> MODEL RBT-2	
MATERIAL			
TYPE & TEMPER	HEAT TREAT. SPEC.		
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.

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. ±							

CDD  
 2A-948  
 DRAWN: *[Signature]* CHECKED: *[Signature]*  
 FINAL APPR VAL: *[Signature]*  
 A-1086

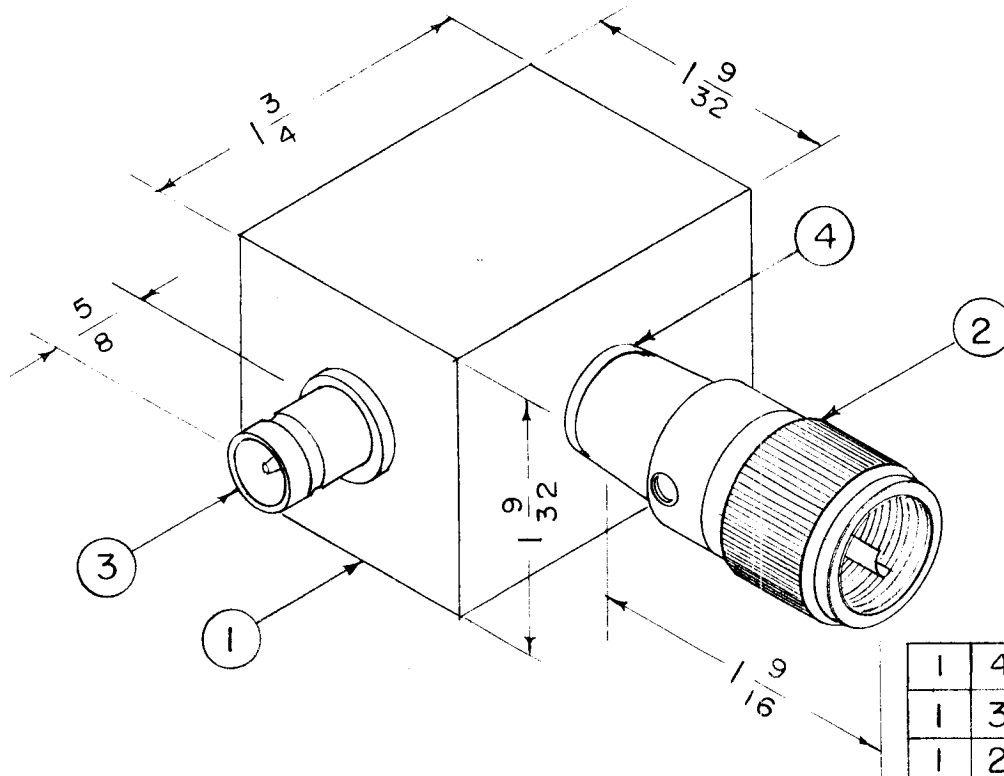
REQ. PER UNIT	USED ON			A-1087
	MODEL	ASS'Y. N .	DATE	

### MECHANICAL SPECIFICATIONS

CASE - STEEL  
 FILLER - COMPOUND  
 COLOR - GREY

### ELECTRICAL SPECIFICATIONS

INPUT IMP. - 70 Ω UNBALANCED  
 OUTPUT IMP. - 300 Ω UNBALANCED  
 FREQ. RANGE - 2 TO 54 mc.  
 RESPONSE - 2 TO 30 mc WITHIN 3DB  
 2 TO 54 mc WITHIN 5DB

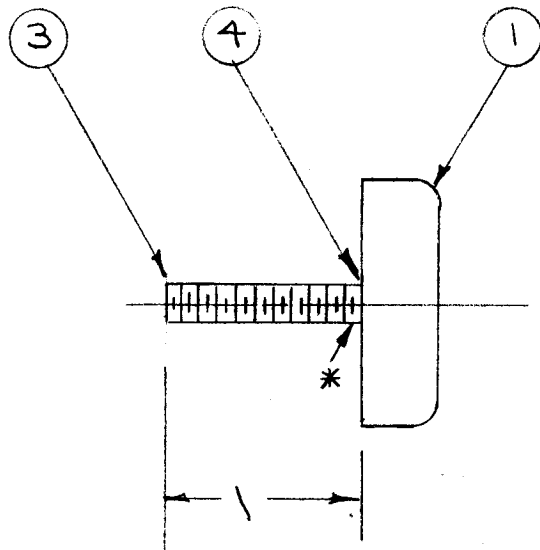


1	4	UG-176/U	CONNECTOR
1	3	UG-625/U	RECEPTACLE
1	2	PL-259	PLUG
1	1	BX-131	CASE

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. ±							

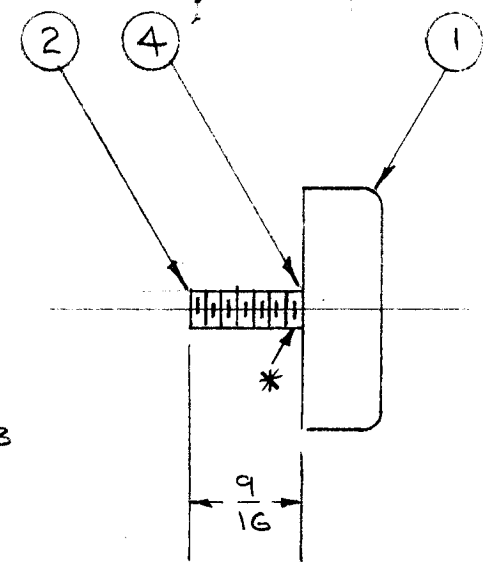
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
STOCK SIZE		<b>THE TECHNICAL MATERIEL CORP.</b> MAMARONECK. NEW YORK <b>SPECIFICATIONS</b> MODEL RBT-1	
MATERIAL			
TYPE & TEMPER			
HEAT TREAT. SPEC.		CDD	<i>JAD</i> CHECKED
FINISH & SPEC. NO.		2A-947	
ELEC. DES. APP.		<i>APP</i> FINAL APPR VAL	
MECH. DES. APP.		A-1087	

REQ. PER UNIT	USED ON			A-1094	B
	MODEL	ASSY. NO.	DATE		
1 EA.	RTF		1/6/56		
1 EA.	RTF-2	P/A	11/20/58		



A-1094-2

\* THREADS MUST BE FREE OF SOLDER TO WITHIN 3/16" OF CONTACT (ITEM ①)



A-1094-1

\* THREADS MUST BE FREE OF SOLDER TO WITHIN 1/16" OF CONTACT (ITEM ②)

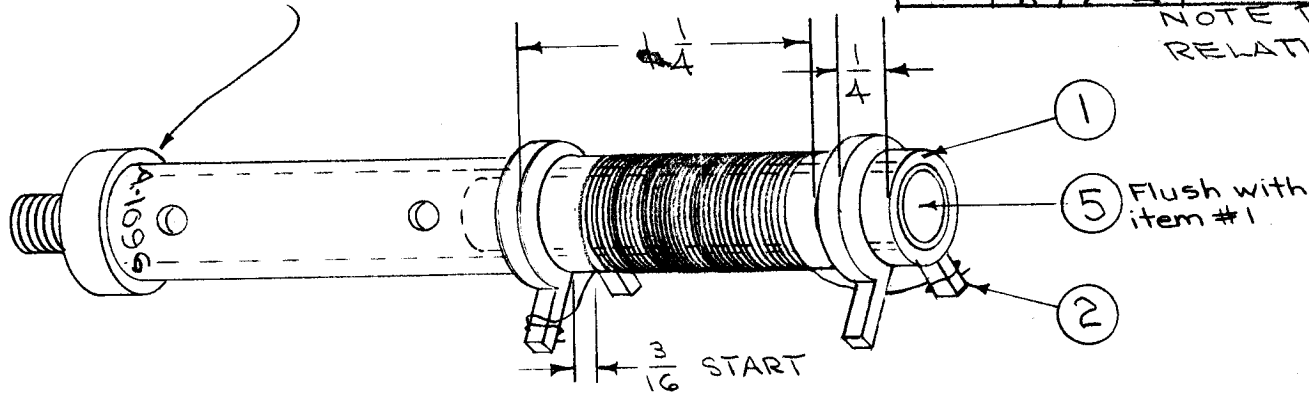
FINISH:  
S 245 - SILVER PLATE .0003  
S 423 - CLEAR IRIDITE

X	4	BS-104	EUTECTIC, TIN WELD
1	3	SC-130	STUD
1	2	SC-127-2	STUD
2	1	PM-358	CONTACT

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
<b>THE TECHNICAL MATERIEL CORP.</b> MAMARONECK, NEW YORK			
CONTACT BUTTON ASSY.			
POWER AMPL. GPT-750			
ISSUE	ITEM	CHANGED FROM	DATE
B	1	SOLDER NOTES ADDED	3/31/64
A	1	FINISH & SPEC. WAS SILVER PLATE .0003	1-9-63
CH. NO.	DRAFTS	CHECKER	ENG. APP.
11151	AM.	<i>[Signature]</i>	<i>[Signature]</i>
7980	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
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. ±			
TYPE & TEMPER		HEAT TREAT. SPEC.	
SEE NOTE			
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
		<i>[Signature]</i>	<i>[Signature]</i>
		<i>[Signature]</i>	<i>[Signature]</i>
		A-1094 B	

STAMP AS SHOWN 1/8" HIGH  
BLACK GOTHIC. A-1096

REQ. PER UNIT	USED ON			A-1096	D
	MODEL	ASSY. NO.	DATE		
1	RTF		11-21-56		
1	RTF-2	MULT.	11-20-57		



NOTE POSITION OF LUGS  
RELATIVE TO HOLES

TEST DATA - W/CORE  
L - 180  $\mu$ h (170-190  $\mu$ h)  
Q - 120 or GREATER  
F - 790 KC

Use Boonton Q-Meter  
160 A OR EQUIV.

1. Position lugs on coil form as shown. Secure with Item 6 (U-85)
2. Wind on 61 close wound turns of item 3. (Allow 3" stripped leads each end for test purposes. Remove after test.)
3. Stake coil ends with item 4.
4. Solder leads to lugs as shown.
5. Coat the entire coil, coil form and inner surface of the coil form with item 6 (U-85)
6. Wind 2 turns of item 7 (tape) on core to insure a snug fit in coil form (see below)
7. Coat item 5 (core) with item 6 (U-85) then insert core into coil form as shown. Core must fit form securely.
8. Bake for 1 hour at 270° F.
9. Test (w/core)
10. Stamp coil form as shown.

X	8	TA-100-2	TAPE, VINYL (1/2" WIDE)	
X	7	BS-100	SOLDER, SOFT	
X	6	GL-104-2	INSULEX U-85	
1	5	CS-1120 2R0 F	CORE	
X	4	GL-103	CEMENT, DUCO	
X	3	WI-107-11	WIRE #30 DSC	
2	2	TE-153-3	LUG, RING TYPE	
1	1	CF-121	COIL FORM	

Insert this end in coil form first.



ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
E	1	TAPE ADDED. NOTES CHGD.	11/13/57	5	16	MDP	A.J.J.
D	2	ITEM 1 WAS CF-115-A.06	1/21/56	4	CDD	MDP	A.J.J.
	1	REDRAWN					

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

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
STOCK SIZE			
MATERIAL			
		CHOKER SUB ASSY., PLATE	
		L209 MULT. GPT-750	
		CDD 1/21/56	
		DRAWN	CHECKED
		FINAL APPROVAL	
		A. J. J. *	
		A-1096 D	
		ELEC. DES. APP. MECH. DES. APP.	
FINISH & SPEC. NO.			