

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

RELEASED

A-204

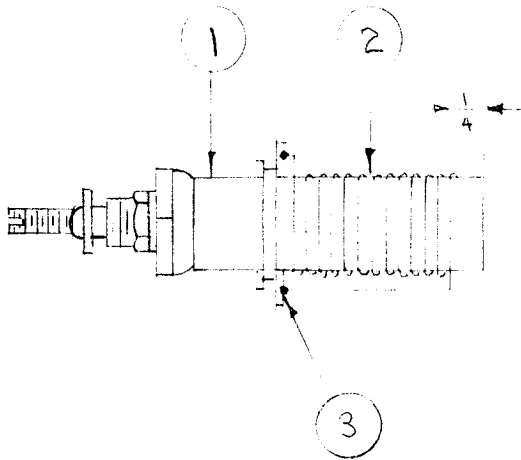
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETER-
MINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION.
REMOVE ALL BURRS AND SHARP EDGES

USED ON

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
LFA	109	A-203	10-23-57

WINDING DATA: 51 TURNS #32 D.S.C.. SOLDER
ENDS AS SHOWN. PAINT WITH
85U, INSULEX.

ELECTRICAL DATA: MEASURED AT 25 MC
L max. = 36.2 μ h, Q = 100
L min. = 20.2 μ h, Q = 105
TOLERANCE: L max. \pm 1.6 μ h
L min. \pm 1.0 μ h
Q > 85



X	4	GL-10A-2	INSULEX - 85U	
X	3	BS-100	SOLDER, SOFT	
X	2	WI-107-13	WIRE #32 D.S.C.	
1	1	CF-104	COIL FORM, SLUG TUNED	
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
#			THE TECHNICAL MATERIEL CORP.	
STOCK SIZE			MAMARONECK. NEW YORK	
#		#		COIL, R.F.
MATERIAL		WEIGHT PER PC.		SUB ASSEMBLY
#			C.D.D. 9-19-57	
TYPE & TEMPER			A.J.J.	P.M.S.
#			DRAWN	ELEC. DES. APP.
#			MECH. DES. APP.	
HEAT TREAT. SPEC.			M.H.S.	
#			CHECKED	
#			FINAL APPROVAL	
FINISH & SPEC. NO.			A-204	

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. \pm							
FRAC. DIM. \pm							
ANGULAR DIM. \pm							

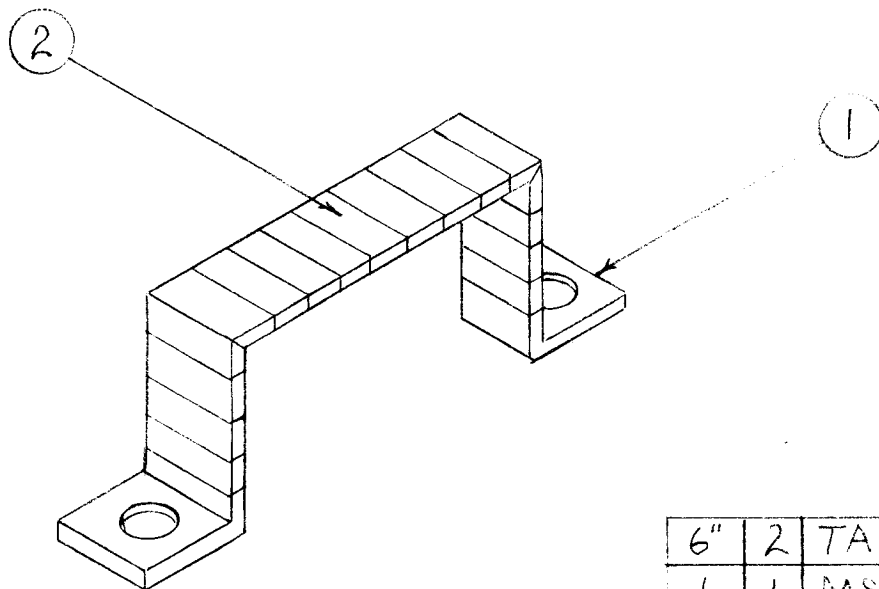
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RELEASED

A-206

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	AMD-1	144	A-205	10-24-54
1	AMD-2		A-736	4/22/54



6"	2	TA-100-1	TAPE-VINYL PLASTIC	
1	1	MS-169	BRACKET	
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
STOCK SIZE			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK. NEW YORK	
			BRACKET, SUB ASSY.	
MATERIAL		WEIGHT PER PC.		
TYPE & TEMPER			WDC	G.T.O. P213
			DRAWN	ELEC. DES. APP. MECH. DES. APP.
HEAT TREAT. SPEC.			CHECKED	
FINISH & SPEC. NO.			FINAL APPROVAL	
			A-206	

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. ±							
ANGULAR DIM. ±							

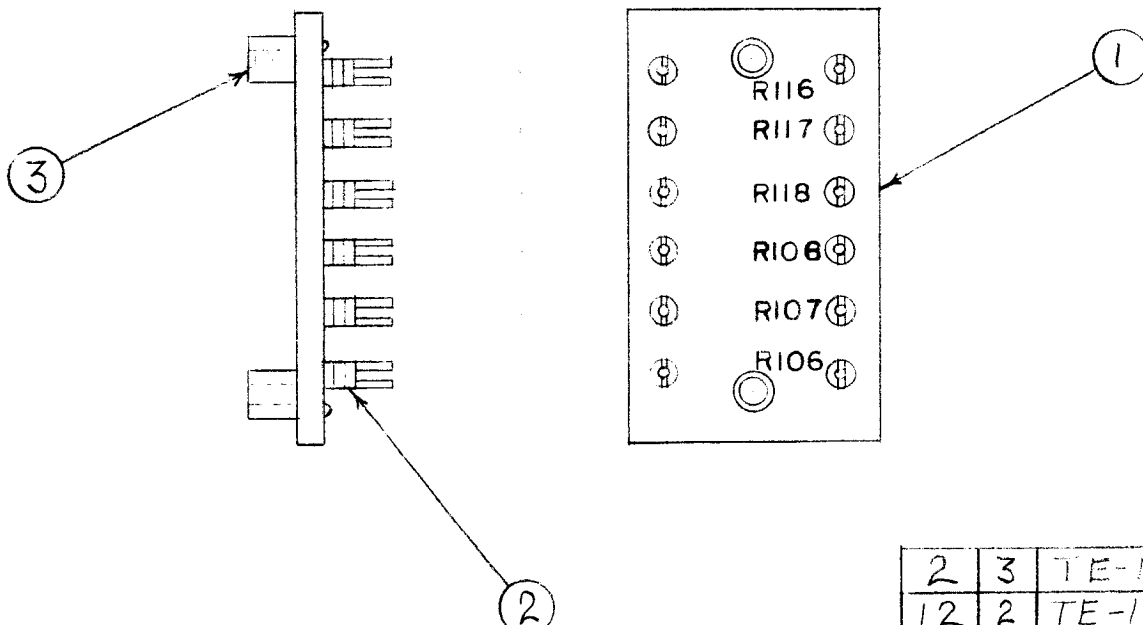
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RELEASED

A-207

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	AMD-1	144	A-232	10-24-52
1	AMD-2		A-736	4/22/54



- ⊕ ○ ⊕ R116
- ⊕ ⊕ R117
- ⊕ ⊕ R118
- ⊕ ⊕ R108
- ⊕ ⊕ R107
- ⊕ ⊕ R106

2	3	TE-103-2	STAND-OFF-RIVET TYPE	
12	2	TE-109-3	SPLIT TERMINAL LUG	
1	1	PX-118	TERMINAL BOARD	
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
—#—			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE				
—#—		—#—	TERMINAL BOARD SUB ASSY	
MATERIAL		WEIGHT PER PC.		
—#—				
TYPE & TEMPER			WDC 10-24	G.T.O
—#—			DRAWN	ELEC. DES. APP.
HEAT TREAT. SPEC.			MECH. DES. APP.	
—#—			CHECKED	
FINISH & SPEC. NO.			FINAL APPROVAL	
			A-207	

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.					

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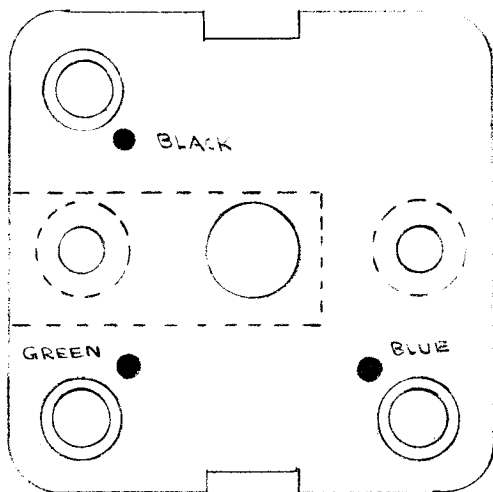
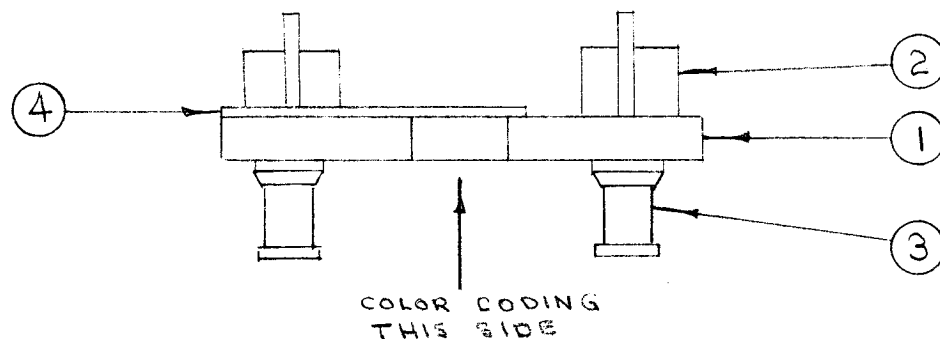
A-208

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

USED ON

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
LFA	109	A-203	10-23-54



1	4	MS-132	GROUNDING STRAP	
3	3	TE-100-3	TERMINAL LUG	
2	2	TE-108-8	STAND OFF	
1	1	PX-109	BOARD, TERMINAL	

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
#			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE				
#			TERMINAL BOARD ASSY.	
MATERIAL				
#			FILTER	
WEIGHT PER PC.				
#			C.D.D. 10-23-54	
TYPE & TEMPER				
#			DRAWN	
HEAT TREAT. SPEC.				
#			CHECKED	
FINISH & SPEC. NO.				

A	1	COLOR LOCATIONS CHANGED	11/18/54	1	C.D.D.	<i>[Signature]</i>	<i>[Signature]</i>
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.

DRAWN		ELEC. DES. APP.		MECH. DES. APP.	
M.H.S.		<i>[Signature]</i>		<i>[Signature]</i>	
CHECKED		FINAL APPROVAL			
		A-208		A	

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

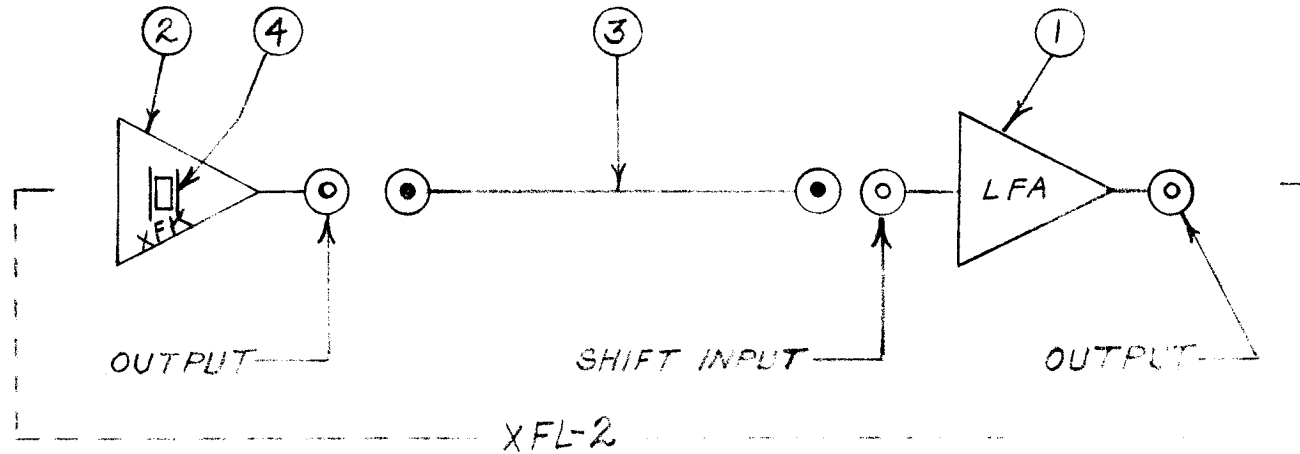
RELEASED

A-209

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

USED ON

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
XFL-2	155	A-209	10-23-52




1	4	27-U	Crystal unit 212 Hz	
1	3	A-125	Coil RF	
	2	A-210	XFK Frequency Exciter	
	1	A-183	LFA Low Frequency Reactor	
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
 STOCK SIZE			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
 MATERIAL			Frequency Shift Exciter System Model XFL-2	
 TYPE & TEMPER			A0J0J0 <i>RLB</i>	
 HEAT TREAT. SPEC.			DRAWN <i>RLB</i> ELEC. DES. APP. <i>RLB</i> MECH. DES. APP. <i>RLB</i>	
 FINISH & SPEC. NO.			CHECKED <i>RLB</i> FINAL APPROVAL <i>RLB</i>	
			A-209	

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.					

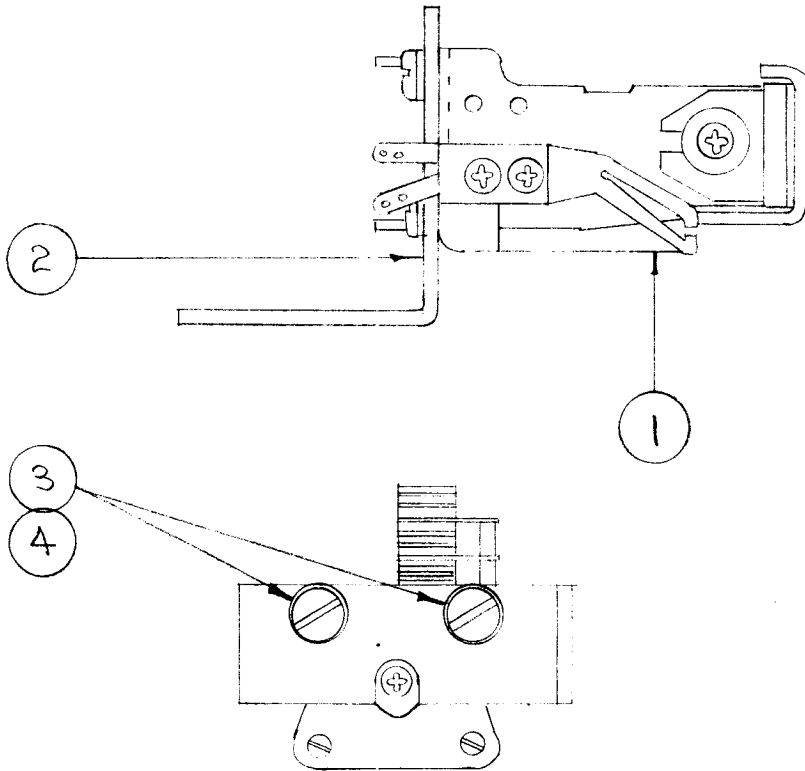
IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

RELEASED



A-227 

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	AMD-1	144	A-231	11-21-52
1	AMD-2		A-736	4/22/54



2	4	LWS06MRC	LOCKWASHER, SPLIT	
2	3	SCBS0632BC4	SCREW, MACHINE	
1	2	MS-171	RELAY BRACKET	
1	1	RL-105	RELAY	

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP.	
			MAMARONECK, NEW YORK	
			RELAY & BRACKET ASSY.	
STOCK SIZE				
MATERIAL		WEIGHT PER PC.		
TYPE & TEMPER		C.D.D 11/21/52		
		DRAWN	ELEC. DES. APP.	MECH. DES. APP.
		G.T.O		
HEAT TREAT. SPEC.		CHECKED		
FINISH & SPEC. NO.		FINAL APPROVAL		
		A-227 		

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.			

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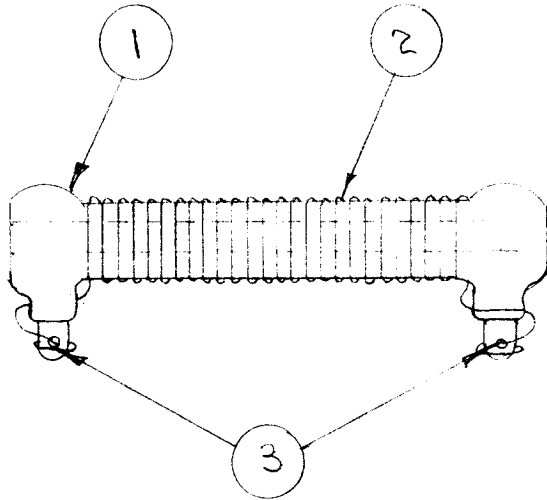
A238

A

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

USED ON

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
LFA	109	A-183	10-27-54



WINDING DATA: STARTING CLOSE TO HUMP, WIND 60 TURNS (CLOSE WOUND) ITEM 2. CLEAN AND TIN 1/2" EACH END OF WIRE BEFORE WINDING.

TEST DATA: USING RESISTANCE BRIDGE, MEASURED TOTAL RESISTANCE TO BE 0.2 Ω \pm 20%.

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
X	3	BS-100	SOLDER, SOFT	
X	2	WI-108-10	WIRE, A.W.G. #25	
1	1	RW-109-28	RESISTOR, FIXED	
-----#-----			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	RESISTOR, FIXED
STOCK SIZE				
-----#-----		-----#-----	ASSEMBLY.	C.I.D.D. 10-27-54
MATERIAL		WEIGHT PER PC.		
-----#-----			DRAWN	ELEC. DES. APP.
TYPE & TEMPER				
-----#-----			CHECKED	MECH. DES. APP.
HEAT TREAT. SPEC.				
-----#-----			FINAL APPROVAL	
FINISH & SPEC. NO.			A-238	

A	1	WAS RR-103	11/5/54	1	C.D.D.	<i>[Signature]</i>	<i>[Signature]</i>
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 N T INCLUDED.	

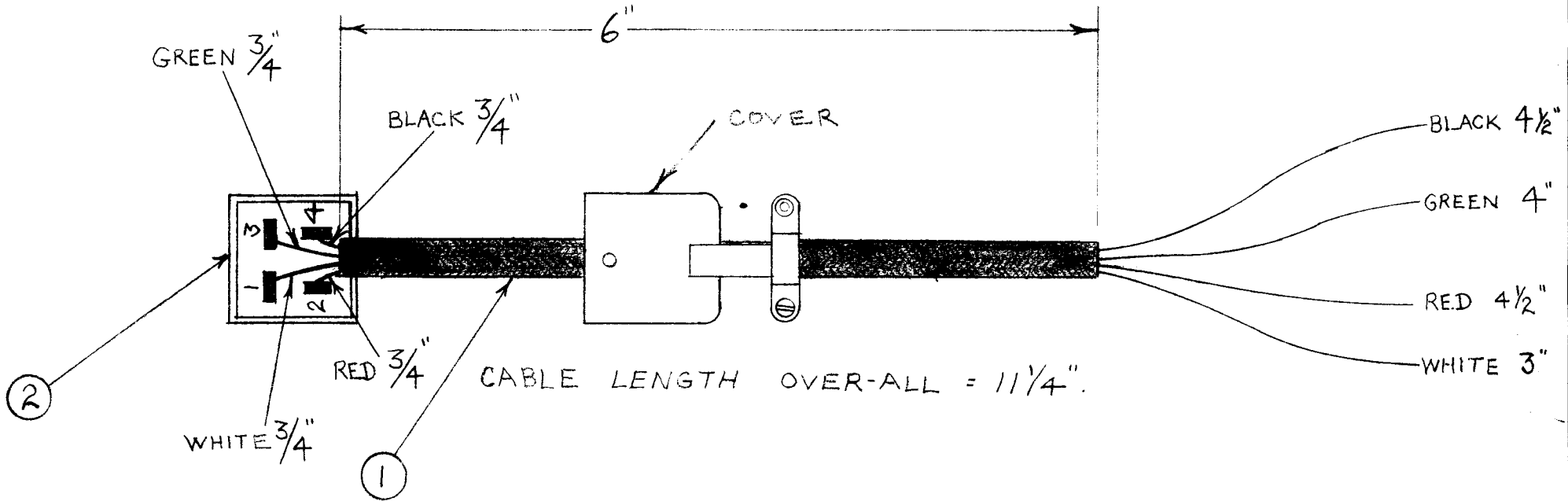
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RELEASED

A-239 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	AMD-1	144	A-231	12-1-52
1	AMD-2		A-736	4/22/54



CABLE LENGTH OVER-ALL = 11 1/4"

STRIP INSULATION BACK 1/2" ON FREE ENDS OF STRANDED WIRE.

1	2	PL-106-1	CAP TYPE PLUG - 4 PRONG	PI01
11 1/4"	1	WI-112-3	MULTI-CONDUCTOR CABLE.	
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
STOCK SIZE			THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
MATERIAL			CABLE - PLUG ASSEMBLY	
WEIGHT PER PC.				
TYPE & TEMPER			WDC 12-1-52	G.T.O. PMS
HEAT TREAT. SPEC.			DRW	ELEC. DES. APP. MECH. DES. APP.
FINISH & SPEC. NO.			CHECKED	FINAL APPROVAL
				A-239 A

A	1	WIRE LENGTH CHANGED	3/3/53	1	WDC	PMS	PMS
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.

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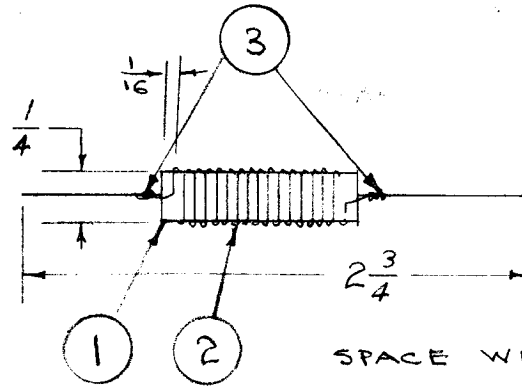
A-241

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

USED ON

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
FFRD-8	104	A-327	10-17-52

STEP 1.
WIND ON 36 CLOSELY WOUND TURNS OF #32 DOUBLE SILK SOLDER ENDS OF WIRE TO RESISTOR LEADS AS SHOWN.
STEP 2
PAINT WITH Q-MAX-A-27 AND BAKE FOR 1/2 HOUR AT 100° F.



SPACE WINDING SYMMETRICALLY

ELECTRICAL TEST:

f - 7.9 MC
Q - 75
L - 5.6 μh
TOL - ±.25 μh.

X	4	GL-102	Q-MAX-A-27	
X	3	BS-100	SOLDER, SOFT	
X	2	WI-107-13	MAGNET WIRE,	
1	1	RC42GF 274K	RESISTOR, FIXED	

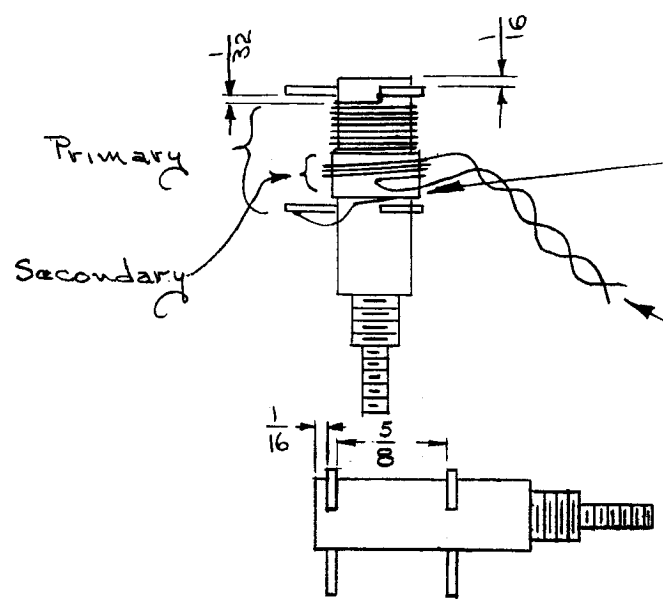
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
//			THE TECHNICAL MATERIEL CORP.	
STOCK SIZE			MAMARONECK, NEW YORK	
//			INDUCTOR, FIXED-	
MATERIAL			ASSEMBLY BAND-8	
WEIGHT PER PC.			C.D.D. 10/17/52	
TYPE & TEMPER			G.T.O. PPA	
//			DRAWN	
HEAT TREAT. SPEC.			ELEC. DES. APP.	
//			MECH. DES. APP.	
FINISH & SPEC. NO.			CHECKED	
			FINAL APPROVAL	
			A-241	
			B	

B	1	DIMENSIONS ADDED	9-25-52	2	15	UAX	ATJ
A	1	ITEM 2 WAS WI-106-13	1/2/53	1	C.D.D.	G.T.O.	PPA
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.				

A-242F

Primary : 44 turns, #32 DSC, Close wound
 Secondary : 4 turns #32 DSC, close wound
 WI-107-13

Winding direction is unimportant.



Note:
 One layer of Scotch plastic (TA100-1) tape

Leave 3" tails on secondary and twist for some short distance (perhaps 1/2" or less). COLOR CODE FINISH LEAD WITH BLACK DOT

Secondary wound over and near bottom end of the primary.

Entire coil should be covered with GL-104-2; and then Baked for 2 Hours at 70°C or 160°F.

Form : LS3L with red slug (20063 - B), without brass insert. (CF-107-2N)
 Cambridge Thermionic Corporation
 Diameter : 3/8" No lock on slug screw.

Primary : { L max. : 15.2 microhenry, Q : 65
 { L min. : 10.9 microhenry, Q : 70

Measured at 2.5 Mc.

Tolerance : L max. : ± .7 microhenry
 L min. : ± .5 microhenry

Q must be greater than 60.

USED ON A-615

ATTENTION: This print supercedes # AEM 096

F	TAPE "NOTE" CLAR	1-6-67	
E	SECONDARY NOTE CLARIFIED	10.18.66	
D	VIEW ADDED.	3.19.65	
C	BAKING NOTE ADDED	1/18/54	
B	LS3L WAS LS3 CF-107-2N WAS CF-107-2	12/14/53	A. J. J.
A	WAS GL-102	12/18/53	
SYM	DESCRIPTION	DATE	APP

DATE	4/30/52	COIL L 201 MODEL VOX, VOX-1, 2, 3, 4, 5, 6	THE TECHNICAL MATERIEL CORPORATION MAMARONECK, NEW YORK	
DRN.	LADe			
CHKD.	A. J. J.			
APPD.	A. J. J.			
SHEET	OF	NO.	A-242	F

A-244C

WI-107-17

183 Turns of #36 BSC wound on RC 32 GF225J
2.2 meg., 1 W A.B. Resistor,
Part No. GB 2251

Cam : 1/4

Cam Gear : 105 Treat with GL-104-2 ; and then
Baked for 2 Hours at 70°C or 160°F.
Drive Gear : 69

L : .168 mhy.

Q : 35

R : 6.1 ohms

Tolerance:

L : \pm .01 mhy.

Q greater than 30

Measured at 790 Kc.

USED ON A-618

ATTENTION: This print supercedes # AEM 095

C	RC32GF225J WAS RC30GF225K	1-6-57 17463	WJC
B	BAKING NOTE ADDED	1/8/54	AJJ
A	WAS GL-102	12/8/53	WJC
SYM	DESCRIPTION	DATE	APP

DATE	4/30/52	COIL L 202 MODEL VOX , VOX-1, 2, 3, 4, 5, 6	THE TECHNICAL MATERIEL CORPORATION MAMARONECK, NEW YORK		
DRN.	JADe				
CHKD.	A. J. J.				
APPD.	A. J. J.				
		SHEET	OF	NO. A-244	C

A245D

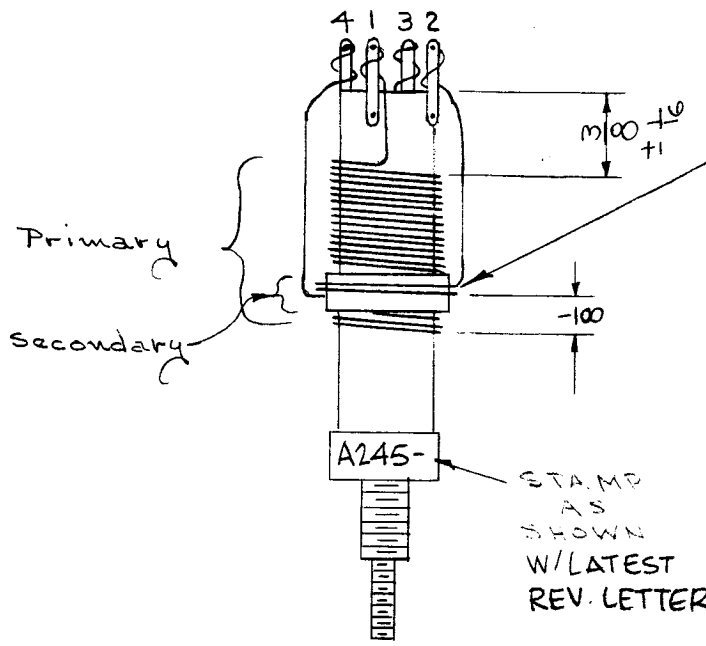
Primary : $66\frac{1}{2}$ Turns, #32 DSC, close wound

Secondary : $5\frac{1}{2}$ Turns, #32 DSC, close wound

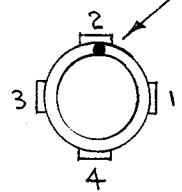
Winding direction unimportant.

WI-107-13

Note:
One layer of Scotch
Plastic (TA100-1)
tape.



BLACK DOT AS SHOWN
TERMINAL NO. 2



STAMP
AS
SHOWN
W/LATEST
REV. LETTER

Leads from windings to lugs should be run through thin spaghetti.

Entire coil (Primary and Secondary) must be covered with GL-10.4-2 and then Baked for 2 Hours at 70°C or 160°F.

Form : LS4 with red slug (20063 - K), Dia. 1/2" CF-106-1
Cambridge Thermionic Corporation

Primary : (L max. : 44 microhenry, Q 106
(L min. : 26 microhenry, Q 100

Tolerance:

L max. : \pm 2 microhenry

L min. : \pm 1.5 microhenry

Q must be greater than 90

Measured at 2.5 Mc.

ATTENTION: This print supercedes # AEM 097 USED ON A610-1 ONE REQ. PER UNIT

U	1	17463	9995	15	1	17/55	APP.
D	1	17463	9995	15	1	17/55	APP.
B	2	17463	9995	15	1	17/55	APP.
A	1	17463	9995	15	1	17/55	APP.

TAPE "NOTE" CLAS. APPROX. 1-6-57
 USED ON NO. WAS A-615 9/25/53
 BAKE NOTE ADDED 1/8/54
 WAS GL-102
 BLACK DOT ADDED 12/5/55

DATE	4/30/50
DRN.	JADe
CHKD.	A. J. J.
APPD.	A. J. J.

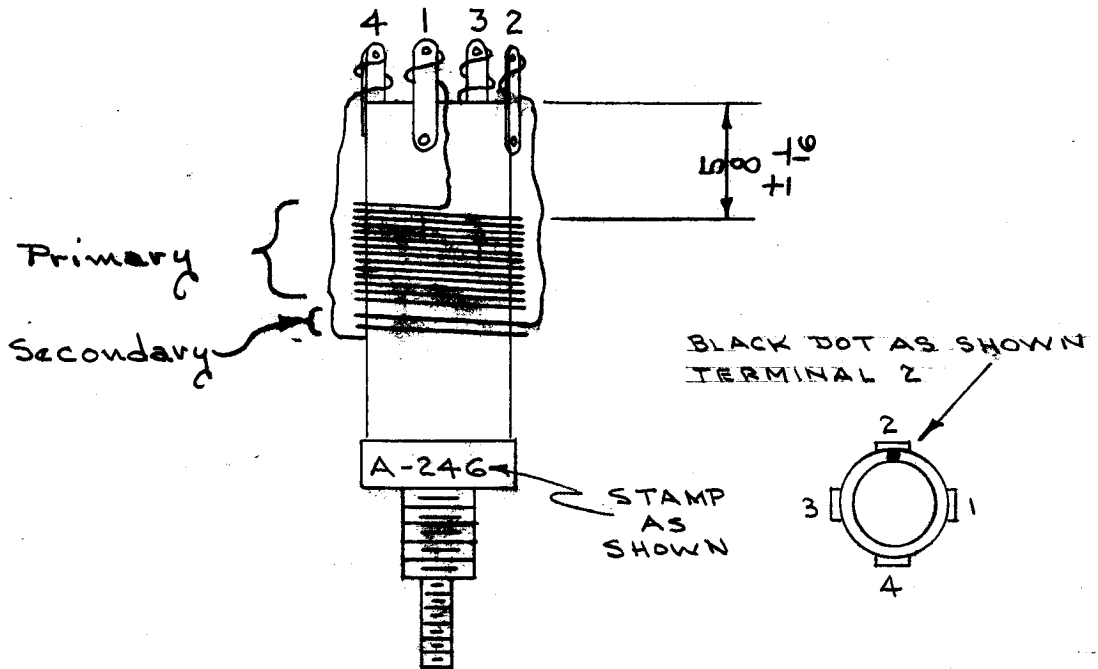
COIL	L 203
MODEL	VOX, 1, 2, 3, 4, 5, 6
	PMO-1, 2

THE TECHNICAL MATERIEL CORPORATION MAMARONECK, NEW YORK		
SHEET	OF	NO. A 245

A-246-D

Primary : $23\frac{1}{2}$ turns, #32 DSC, close wound
 Secondary : $3\frac{1}{2}$ turns, #32 DSC, close wound
 WI-107-13

Winding direction is unimportant.



Secondary : wound on coil form immediately adjacent to primary.

Leads from windings to lugs should be run through thin spaghetti.

Entire coil should be covered with ~~Q-1-104~~ -2 ; and then Baked for 2 Hours at 70°C or 160°F.

Form : LSL with red slug (20063 - K), Diameter : 1/2" CF-106-1
 Cambridge Thermionic Corporation

Primary : { L max. : 13 microhenry, : } Q must be greater than 100
 (L min. : 7.4 microhenry, : }

Tolerance:
 L max. : ± 1.0 microhenry Measured at 2.5 Mc.
 L min. : $\pm .6$ microhenry Measured at 7.9 Mc.

USED ON A-610-2
 ONE REQ. PER UNIT

ATTENTION: This print supercedes # AEM 098

ON PRIMARY DELE. Q-104 & Q-110 3.25.64 11098
 CHANGED FROM
 DATE CHG. DRAFT
 MB
 LHM

DATE 4/30/52	COIL L 205 NO. 1, 2, 3, 4, 5, 6 -1, 2	THE TECHNICAL MATERIEL CORPORATION MAMARONECK, NEW YORK		
DRN. JADe				SHEET OF NO. A-246-D
CHKD. A. J. J.				
APPD. A. J. J.				

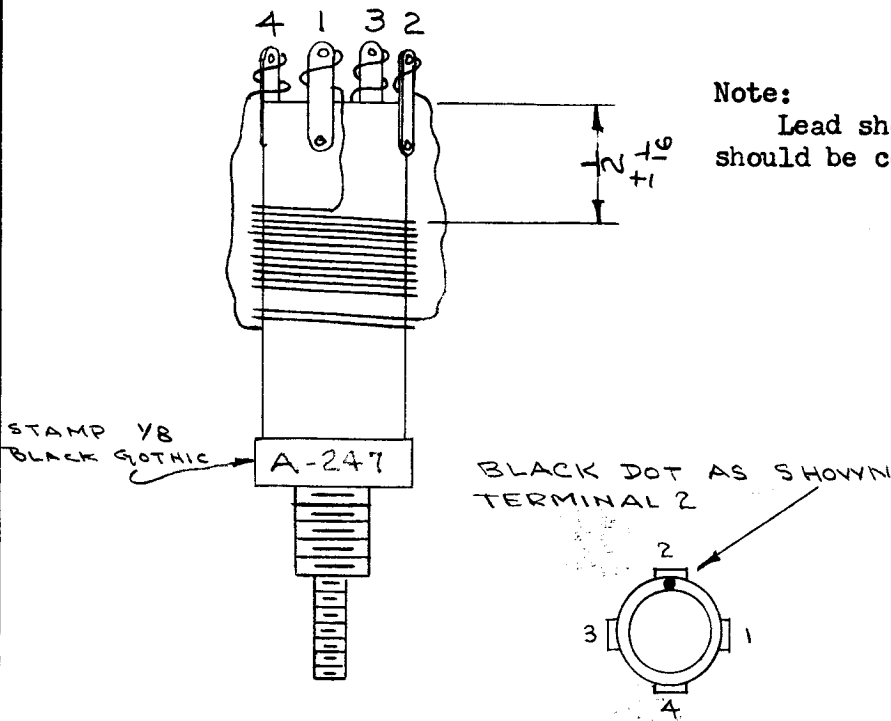
A-247

Primary : $14\frac{1}{2}$ Turns, #20 DSC, clos wound

Winding direction is unimportant.

Secondary : $2\frac{1}{2}$ Turns, #20 DSC, close wound

WI-107-1



Note:

Lead should not enter lug bas ; but should be connected as shown here:

Secondary is wound on the coil form immediately adjacent to primary/

Leads from windings to lugs should be run through thin spaghetti.

Entire coil form must be covered with GL-104-2; and then Baked for 2 Hours at 70°C or 160°F.

Primary : (Lmax. : 3 microhenry, Q : 83
 (Lmin. : 1.84 microhenry, Q : 108

Form : LS4 with red slug (20063 - K), diameter : 1/2" CF-106-1
 Cambridge Thermionic Corporation

Tolerance : L max. \pm .2 microhenry Q must be greater than 65
 L min. \pm .1 microhenry
 Measured at 7.9 Mc.

USED ON AG10-3

ATTENTION: This print supercedes # AEM 099

C	1	USED ON NO. WAS A-615	9/25/53	9995	JAB	JAB	ANT					
B	2	BAKE NOTE ADDED	1/18/54	15	JAB	JAB	ANT					
A	1	BLACK DOT ADDED	7/5/53	1	C.D.D.	JAB	600					
		CHANGED FROM										
	ISSUE	ITEM	DATE	CN. NO.	DRAFT	CHK.	APP.					

DATE 4/30/50	COIL L 206	THE TECHNICAL MATERIEL CORPORATION MAMARONECK, NEW Y RK
DRN. <i>[Signature]</i>	MODEL VOX, VOX-1, 2, 3, 4, 5, 6	
CHKD. A. J. J.		
APPD. A. J. J.		
SHEET OF		NO. A-247 C

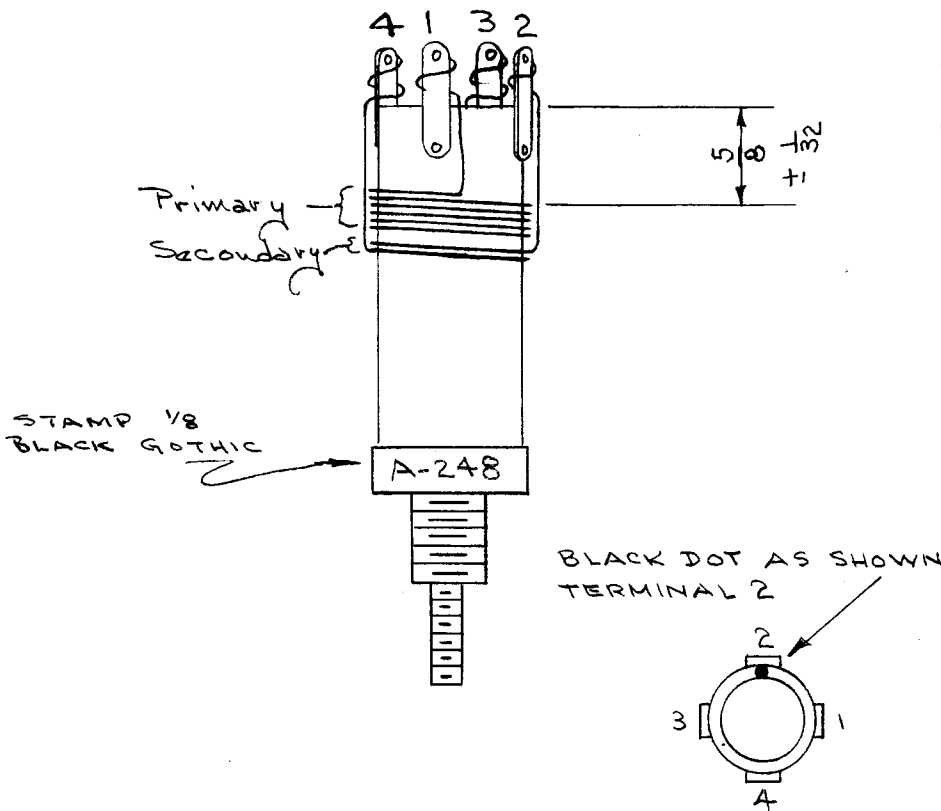
A 248

Primary: $5\frac{1}{2}$ turns, #20 DSC, close wound

Winding direction is unimportant

Secondary: $1\frac{1}{2}$ turns, #20 DSC, close wound

WI-107-1



Note:

Lead should not enter lug base; but should be connected as shown.

Important:

Start and end windings on the same side of the lugs.

Bring lead down vertically from lug to winding.

Secondary wound on coil form immediately adjacent to primary.

Leads from windings to lugs should be run through thin spaghetti.

Entire coil should be covered with GL-104-2; and then Baked for 2 Hours at 70°C or 160°F.

Form: LS4 with red slug (20063 * K), Diameter : 1/2" CF-106-1
Cambridge Thermionic Corporation

Primary : (L max. : .84 microhenry, Q : 115
(L min. : .50 microhenry, Q : 130

Q must be greater than 100

Tolerance : L max. or L min. : \pm .04 microhenry

Measured at 25 Mc.

USED ON A610-4

ATTENTION: This print supercedes #AEM-100-A

D	USED ON NO. WAS A-615	9-25-63	AJ	W
C	BAKE NOTE ADDED	1/12/52	AJ	W
B	WAS GL-102			
	BLACK DOT ADDED	12/3/53	AJ	W
A	100 was 110	7-13-52	AJ	W
	.84 was .4	9-13-52	AJ	W
SYM	DESCRIPTION	DATE	CK	APP

DATE	4/30/52	COIL L207 MODEL VOX, 1, 2, 3, 4, 5, 6	THE TECHNICAL MATERIEL CORPORATION MAMARONECK, NEW YORK		
DRN.	AJ				
CHKD.	A. J. J.				
APPD.	A. J. J.				
SHEET	OF	NO.	A-248	D	

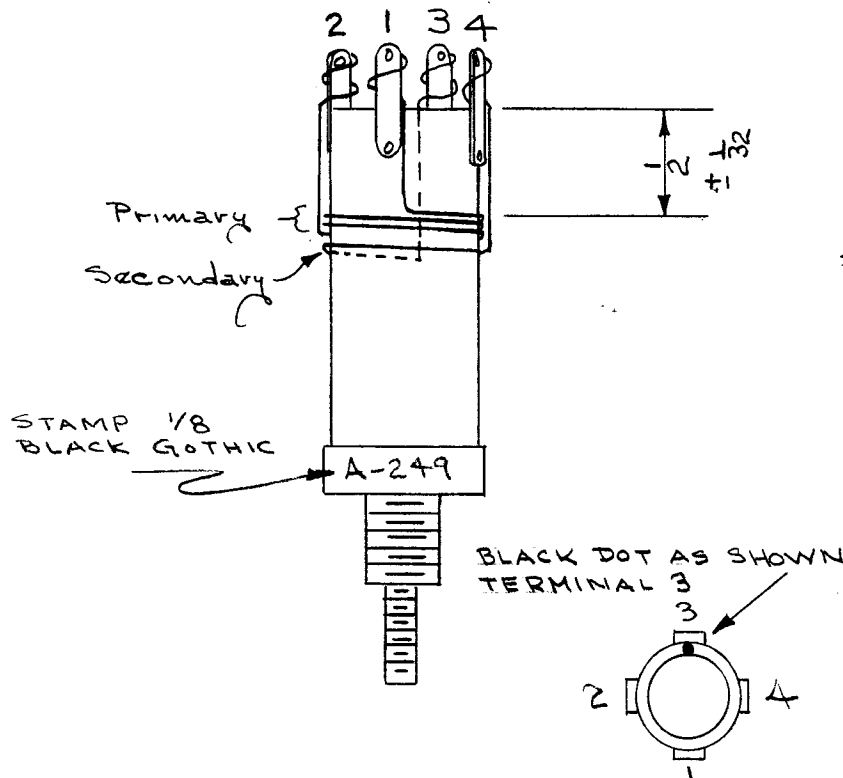
A-249-C

Primary : 2 3/4 turns, #20 DSC, Close wound

Secondary : 3/4 turn, #20 DSC, Close wound

WI-107-1

USE CLOCKWISE WINDING DIRECTION WHILE LOOKING AT THE BOTTOM END OF THE COIL.



Note:

Lead should not enter lug base but should be connected as shown.

Important:

Always start and end each winding on the same side of the lug.

Bring lead down vertically from lug to coil.

Secondary wound on coil for immediately adjacent to primary.

Leads from windings to lugs should be run through spaghetti.

Entire coil should be covered with GL-104-2; and then Baked for 2 Hours at 70°C or 160°F.

Form: LSH with red slug, (20063 - K), Diameter : 1/2" Cambridge Thermionic Corporation

CF-106-1

Tolerance: L max. : .26 microhenry \pm .01 microhenry , Q : 130

Q must be greater than 100

L min. : .18 microhenry \pm .005 microhenry, Q : 120

Measured at 25 Mc.

L max measured at point where tip of slug screw is flush to mounting stud end.

USED ON A610-5

ATTENTION: This print supersedes # AEM 101

C	USED ON NO. WAS A-615	9-25-63	210	WJS
B	BAKE NOTE ADDED	1/18/54	AW	ASTJ
A	WAS GL-102			
	BLACK DOT ADDED	12/2/53	JMS	WJS
SM.	DESCRIPTION	DATE	CHK.	APP.

DATE	4/30/52	COIL L 208 MODEL VOX 1,2,3, 4,5,6	THE TECHNICAL MATERIEL CORPORATION MAMARONECK, NEW YORK	
DRN.	J.H.P.			
CHKD.	A.J.J.			
APPD.	A.J.J.			
SHEET		OF	NO.	A-249

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

A-256 A

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

USED ON

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
DMK-4	140	—#—	11-10-52

A-129 → (1)

A-152 → (3)

A-153 → (4)

A-154 → (5)

A-155 → (6)

A-160 → (7)

A-167 → (8)

A-252 → (9)

1	9	A-252	REAR PANEL ASSY.	
1	8	A-167	HFO SWITCH ASSY.	
1	7	A-160	MODIFICATION ASSY., IF OUTPUT	
1	6	A-155	3.5 MC OSC. ASSY.	
1	5	A-154	CHASSIS ASSY.	
1	4	A-153	S201 ASSY.	
1	3	A-152	BFO-HFO ASSY.	
	2		(DELETE)	
1	1	A-129	BFO ADAPTER ASSY.	

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
#				
STOCK SIZE			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
# #			MAIN ASSEMBLY	
MATERIAL		WEIGHT PER PC.		
#				
TYPE & TEMPER			C.D.D. 11-10-52	
#			RQB	
HEAT TREAT. SPEC.			DRAWN	
#			ELEC. DES. APP.	
#			MECH. DES. APP.	
#			CHECKED	
#			FINAL APPROVAL	
FINISH & SPEC. NO.			A-256 A	

A	1	DELETED ITEM 2	9/9/53	1	16	JAG	ORR
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

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

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

RELEASED

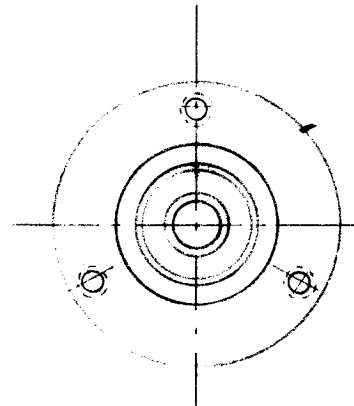
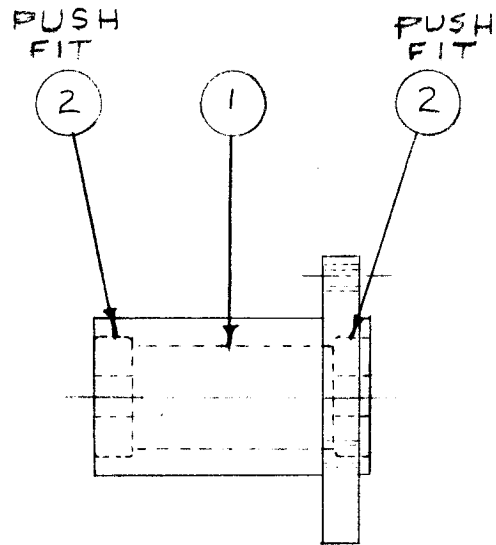
A-265

A

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

USED ON

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
CK-2	168	A-266	11-21-52



2	2	BB 120-1	BEARING RACE	
1	1	PM-166	BASE FRAME	
REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
—ff—			THE TECHNICAL MATERIEL CORP.	
STOCK SIZE			MAMARONECK, NEW YORK	
—ff—		—ff—	BEARING SUPPORT	
MATERIAL		WEIGHT PER PC.	ASS'Y.	
—ff—			16 11-21-52	<i>me</i>
TYPE & TEMPER			DRAWN	ELEC. DES. APP. MECH. DES. APP.
—ff—			12-12-52	
HEAT TREAT. SPEC.			CHECKED	FINAL APPROVAL
—ff—				A-265
FINISH & SPEC. NO.				A

A	ITEM 2 WAS BB104	7/27/66	16551	RME	<i>QCB</i>	<i>me</i>	
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE FULL SIZE				
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.				

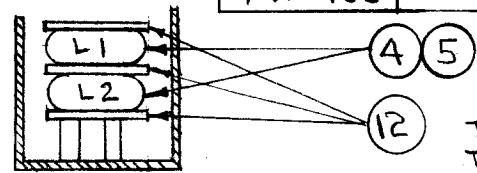
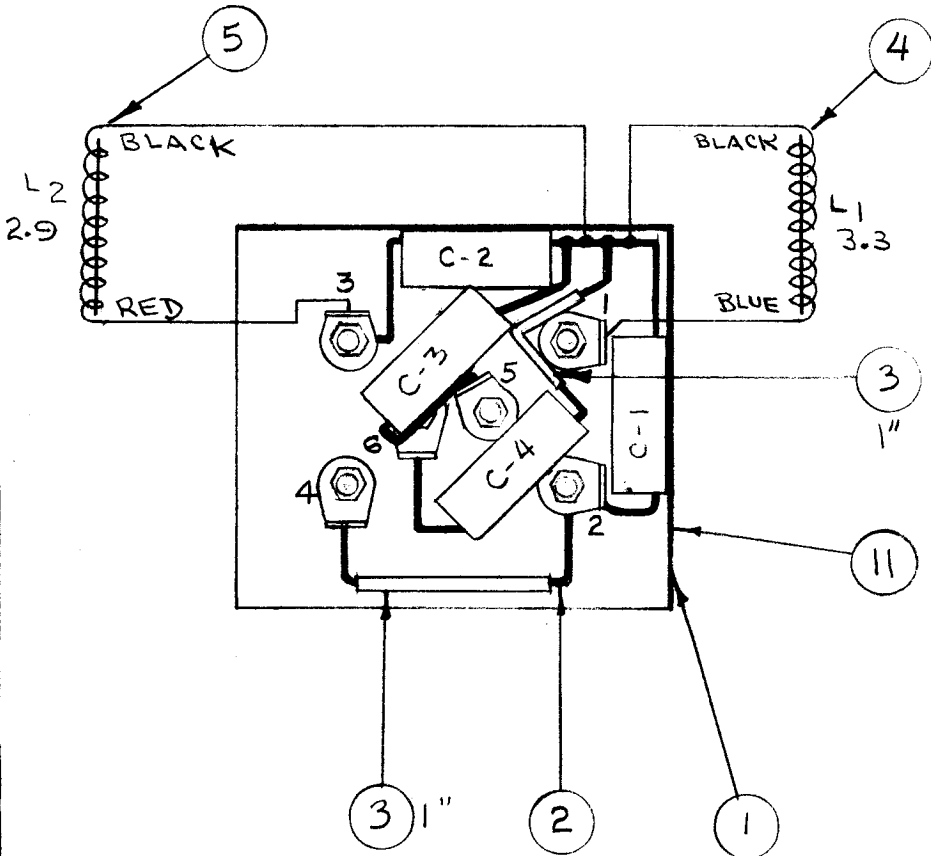
IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

A-279

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

USED ON

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
FX-100	160	//	12-18-52



BOTTOM VIEW OF TOP COVER

NOTE: DO NOT PAINT STUD END

X	14	GL-100	POTTING COMPOUND	
X	13	CD-100-2	CORD LACING, NYLON	
3	12	WA-110-2	WASHER, PAPER.	
1	11	IM-109	INSULATION	
1	10	CK-129	SCHEMATIC DIAGRAM	
1	9	CM-35-C-152J	CAPACITOR, FIXED MICA	C-4
1	8	CM-35-C-272J	CAPACITOR, FIXED MICA	C-3
1	7	CM-35-C-102J	CAPACITOR, FIXED MICA	C-2
1	6	CM-35-C-103J	CAPACITOR, FIXED MICA	C-1
1	5	CL-106-1	TOROIDAL COIL - 3.3 H	L-1
1	4	CL-106-2	TOROIDAL COIL - 2.9 H	L-2
2"	3	PX-104-1-.034	INSULATION, SLEEVING-F.G.	
2"	2	WL-100-7	BUSS-BAR, TINNED	
1	1	A-280	CASE ASSEMBLY	

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
<i>ff</i>				
STOCK SIZE				
<i>ff</i>		<i>ff</i>		
MATERIAL		WEIGHT PER PC.		
<i>ff</i>				
TYPE & TEMPER				
<i>ff</i>				
HEAT TREAT. SPEC.				
S-153 AIR DRYING SMOOTH GREY ENAM L. FINISH & SPEC. NO.				

THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		
FILTER ASSEMBLY		
FX-100		
16 12-17-52		
DRAWN	ELEC. DES. APP.	MECH. DES. APP.
C.D.D.		<i>ff</i>
CHECKED	FINAL APPROVAL	
	A-279	

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