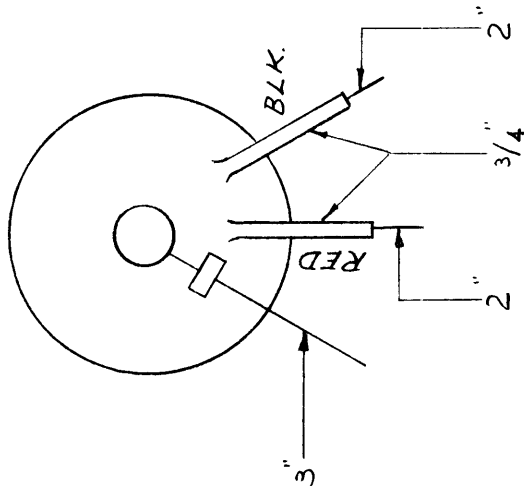
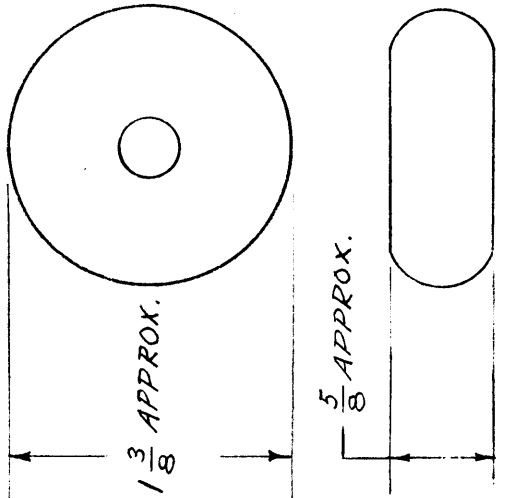


IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

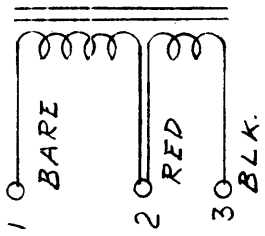
COMPLETED INDUCTOR



TYPICAL INDUCTOR (MAX DIMENSIONS ONLY)

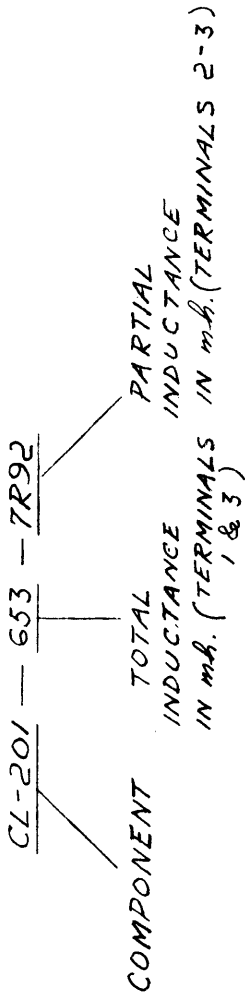


ELECTRICAL DIAGRAM



CL-201

TYPE DESIGNATION TO BE IN FOLLOWING FORM:



NOTE: "TOTAL INDUCTANCE" SHALL ALWAYS BE IN THE RANGE OF 100 TO 999 IN mH SPECIFIED TO 3 PLACES; TOLERANCE SHALL ALWAYS BE $\pm 3\%$

NOTE: "PARTIAL INDUCTANCE" SHALL ALWAYS BE SMALLER THAN 100 mH SPECIFIED TO 3 PLACES; LETTER R SHALL INDICATE DECIMAL POINT; TOLERANCE SHALL ALWAYS BE $\pm 1\%$

EXAMPLE: CL-201-653-7R92
TOTAL INDUCT. 653 mH.
PARTIAL INDUCT. 7.92 mH.

NOTICE TO PERSONS RECEIVING THIS DRAWING

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Property of:
THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK

NOTE: FOR MANUFACTURE OF EACH UNIT CL-201 REFERENCE SHALL BE MADE TO TMC DWG. A-881 FOR ASSY. DETAILS AND FOR A COMPLETE LISTING OF UNITS PREVIOUSLY PRODUCED

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP.	
		MAMARONECK, NEW YORK	
STOCK SIZE		INDUCTOR TOROIDAL	
MATERIAL		TEMP. STAB	
WEIGHT PER PC.			
TYPE & TEMPER.			
HEAT TREAT. SPEC.			
FINISH & SPEC. NO.			

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

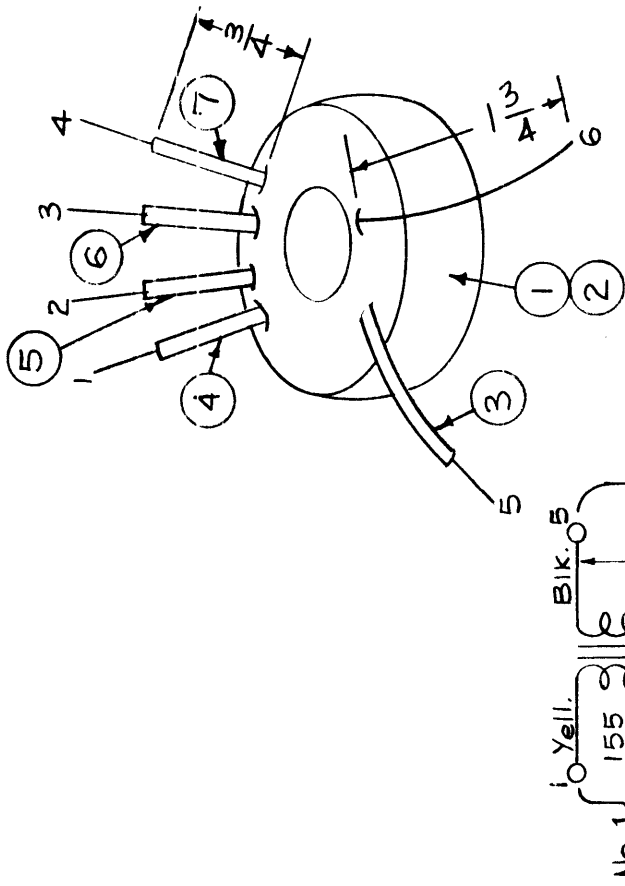
RE. PER UNIT	MODEL	PROJECT NO.	ASSY. NO.	DATE

FINISH & SPEC. NO.	CL-201
--------------------	--------

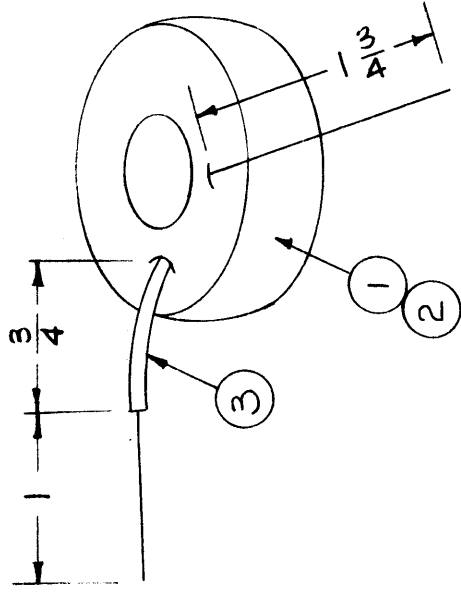
TMC NO.	INDUCTANCE (mhy.)	Greater Than	WIRE (ITEM 2)	APPROX LOAD TURNS	PICT.
CL-202-1	3 Windings 1/155 Turns 2/160 Turns 3/33.4 mhy.	— 15	WI-123-33	1/3 } 15 2/ } 46 3/	A
CL-202-2	82.0	15	WI-123-34	72	B
CL-202-3	17.5	15	WI-123-30	32	B
CL-202-4	35.2	15	WI-123-32	47	B
CL-202-5	16.7	15	WI-123-30	30	B
CL-202-6	26.0	15	WI-123-32	40	B
CL-202-7	17.3	15	WI-123-30	31	B
CL-202-8	46.3	15	WI-123-33	54	B
CL-202-9	37.5	15	WI-123-32	48	B
CL-202-10	150-153	15	WI-123-36	95	B

—WINDING DATA—

- Wind all coils to the inductance specified, except CL-202-1, which will be wound as follows:
 - winding No.1 - 155 turns.
 - winding No.2 - 160 turns.
 - Remove toroid from the ring and balance these two windings.
 - Wind winding No.3 to 33.4 mhy.
- Bake for 1/2 hour at 215° F.
- Submerge hot coil in item 8.
- Ref - TMC SPEC. S-337



—PICTORIAL "A"—



—PICTORIAL "B"—

See TMC SPEC. S-337 for use of item 9

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MAMARONECK, NEW YORK

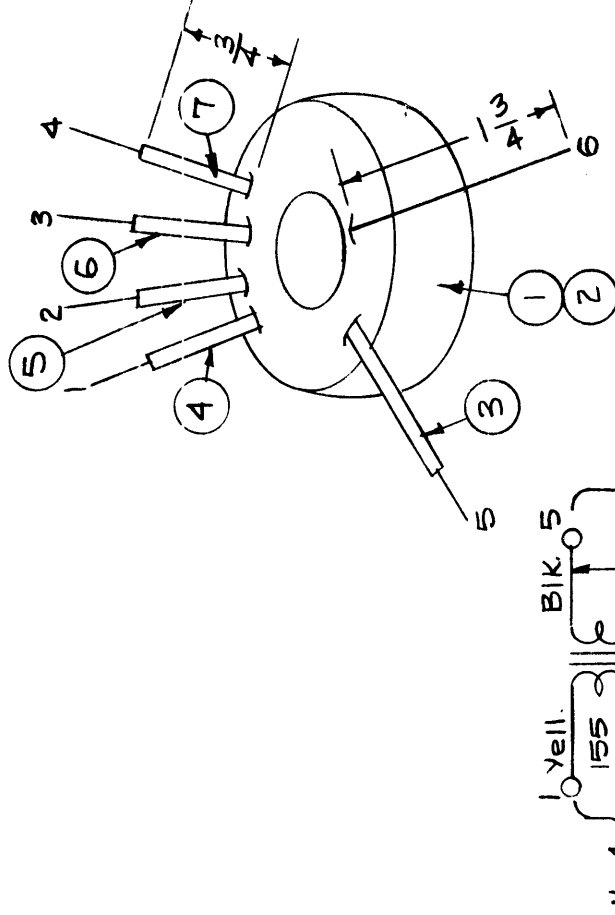
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
X 9	PX-104-1-022	Insulation, Sleaving	Blk.
X 8	GL-110	Wax, Impregnating	
X 7	LWC28(7)U-6	Cable, Insulated	Blue
X 6	LWC28(7)U-1		Brn.
X 5	LWC28(7)U-2		Red
X 4	LWC28(7)U-4		Yell.
X 3	LWC28(7)U-0	Cable, Insulated	Blk.
X 2	WI-123-XX	Wire, Magnet (See Chart)	
1 Ed. 1	CI-103-34	Core, Molybdenum	
STOCK SIZE		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
MATERIAL		REACTOR, TOROIDAL (FX-154)	
TYPE & TEMPER		DRAWN	
HEAT TREAT. SPEC.		CHECKED	
FINISH & SPEC. NO.		664-57	
		APPROVED	
		DATE	
		PROJECT NO.	
		ASSY. NO.	
		DATE	
		USED ON	
		MODEL	
		FX-154	
		SBE-1	
		A-1423	
		6-4-57	
		FINAL APPROVAL	
		CL-202	

ISSUE ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES						
SCALE: ———						
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.						
REMOVE ALL BURRS AND SHARP EDGES						

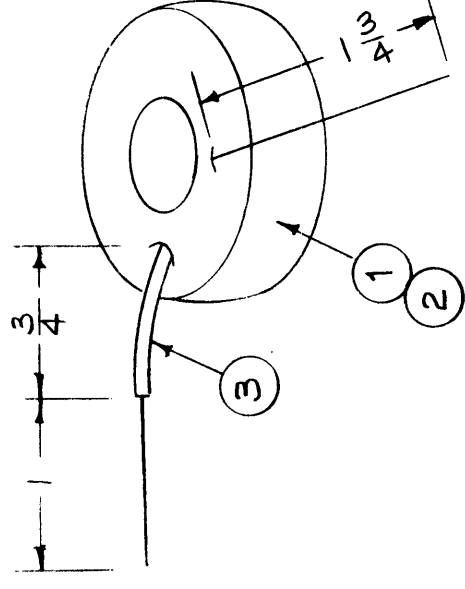
TMC NO.	INDUCTANCE (mhy.)	Q Greater Than	WIRE (ITEM 2)	APPROX LOAD TURNS	PICT.
CL-203-1	3 Windings 1. 155 Turns 2. 160 Turns 3. 33.4 mhy	15	WI-123-33	1. 35 2. 15 3. 46	A
CL-203-2	17.8	15	WI-123-30	35	B
CL-203-3	11.9	15	WI-123-29	29	B
CL-203-4	16.6	15	WI-123-30	34	B
CL-203-5	36.0	15	WI-123-32	53	B
CL-203-6	12.4	15	WI-123-29	31	B
CL-203-7	11.3	15	WI-123-29	28	B
CL-203-8	35.3	15	WI-123-32	50	B
CL-203-9	32.0	15	WI-123-32	47	B
CL-203-10	26.0	15	WI-123-31	42	B

—WINDING DATA —

- Wind all coils to the inductance specified, except CL-203-1, which will be wound as follows:
 - winding No. 1 - 155 turns.
 - winding No. 2 - 160 turns.
- Remove toroid from the ring and balance these two windings.
- Wind winding No. 3 to 33.4 mhy.
- Bake for 1/2 hour at 215° F.
- Submerge hot coil in item B.
- Ref - TMC SPEC. S-337



—PICTORIAL "A"—



—PICTORIAL "B"—

See TMC Spec. S-337 for use of item 9 -

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 THE TECHNICAL MATERIEL CORPORATION
 11 MADISON AVE. NEW YORK

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

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

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

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
X 9	PX-104-1-022	Insulation, Slewing	BIK.
X 8	GL-110	Wax, Impregnating	
X 7	LWC28(7)U-6	Cable, Insulated	Blue
X 6	LWC28(7)U-1		Brn.
X 5	LWC28(7)U-2		Red
X 4	LWC28(7)U-4		Yell.
X 3	LWC28(7)U-0	Cable, Insulated	BIK.
X 2	WI-123-XX	Wire, Magnet (See Chart)	
1 Ea.	CI-103-34	Core, Molybdenum	

THE TECHNICAL MATERIEL CORP.
 MAMARONECK, NEW YORK

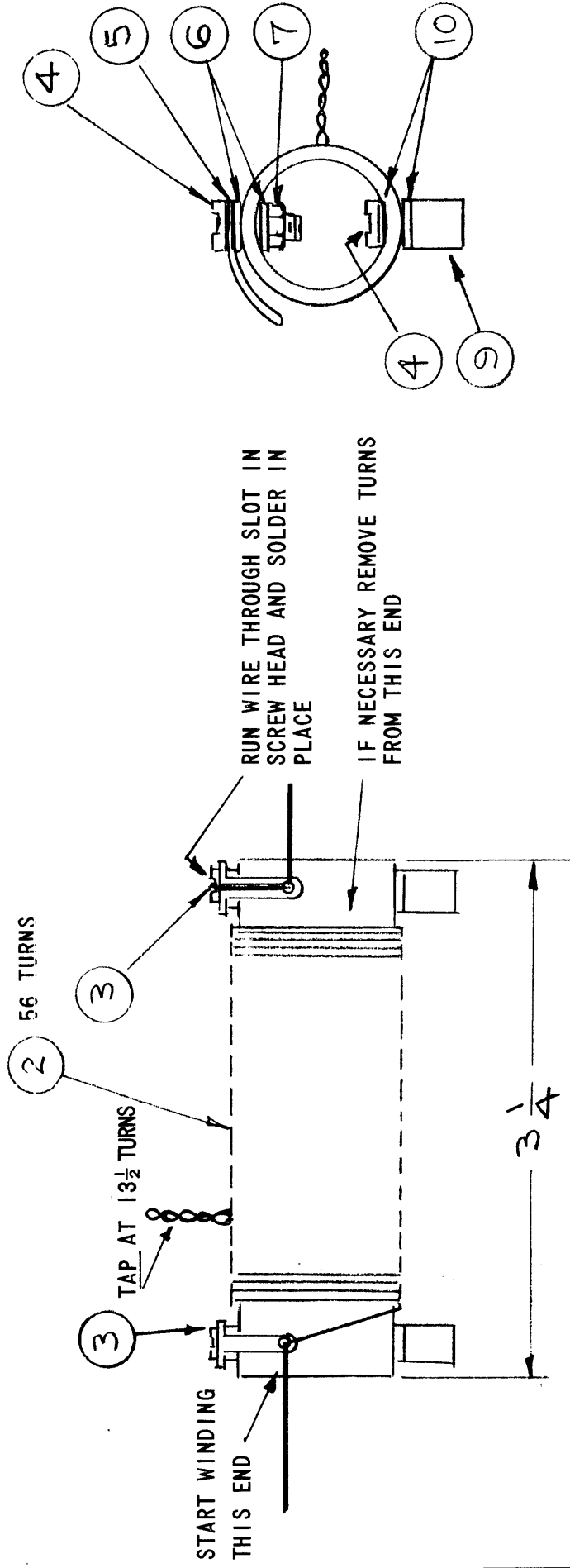
REACTOR, TOROIDAL
 (FX-155)

DRAWN: 166-657
 CHECKED: A.J.J.
 FINAL APPROVAL: A.J.J.

TYPE & TEMPER: # # # # #
 HEAT TREAT. SPEC: # # # # #
 FINISH & SPEC. NO.: # # # # #

MECH. DES. APP. # # # # #
 ELEC. DES. APP. # # # # #
 CL-203

LEADS TO BE CONTINUOUS PART OF WINDING. EACH 3" LONG STARTING FROM LUG.

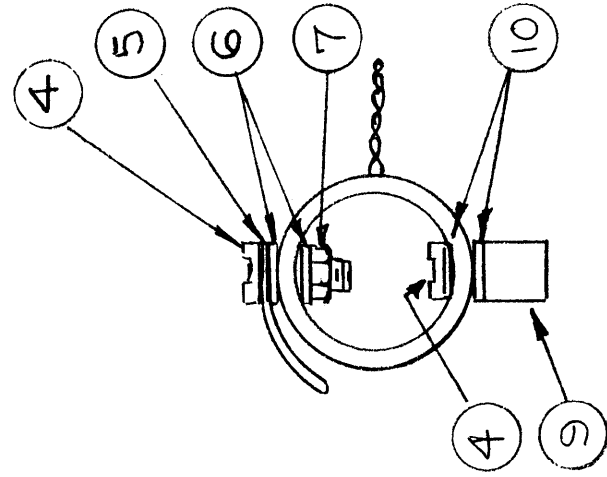


PROCEDURE:

1. WIND COIL AND MAKE SOLDER CONNECTIONS, TAP AT 13 1/2 TURNS.
2. BAKE COIL FOR ONE HOUR AT 100°C.
3. COAT COIL WITH ITEM 8 (INSUL-EX U85) AND BAKE FOR ONE HOUR AT 100°C.
4. REPEAT STEP 3 TWICE MORE MAKING A TOTAL OF 3 COATS OF U-85.

TEST SPECIFICATIONS:

INDUCTANCE: 27.5 UH ±.2 UH
 FREQUENCY: 2.5 MC (MUST BE MONITORED WITH COUNTER FOR INDUCTANCE MEASUREMENT)
 MIN Q: 200



REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
4	10	WA120	WASHER, FIBER	
2	9	TE139-2	STAND-OFF STEATITE	
X	8	GL104-2	RESIN SYNTHETIC	
2	7	NTH0632BN8	NUT, HEX	
4	6	WA109-35	WASHER, FIBER	
2	5	TE104-2	TERMINAL, LOCKING	
4	4	SCRPO632BN5	SCREW, MACHINE	
X	3	BS100	SOLDER, TIN ALLOY	
20	2	WL100-7	WIRE, BUSS BAR	
1	1	CF109	COIL, FORM CERAMIC	

LIST OF MATERIAL

FINAL APPROVAL	O.P.	DATE	3-29-60
MECH. DES.	A.M.	DATE	3-29-60
ELECT. DES.	ARF	DATE	
CHECKED	JAD	DATE	
DRAWN	PI	DATE	3-29-60

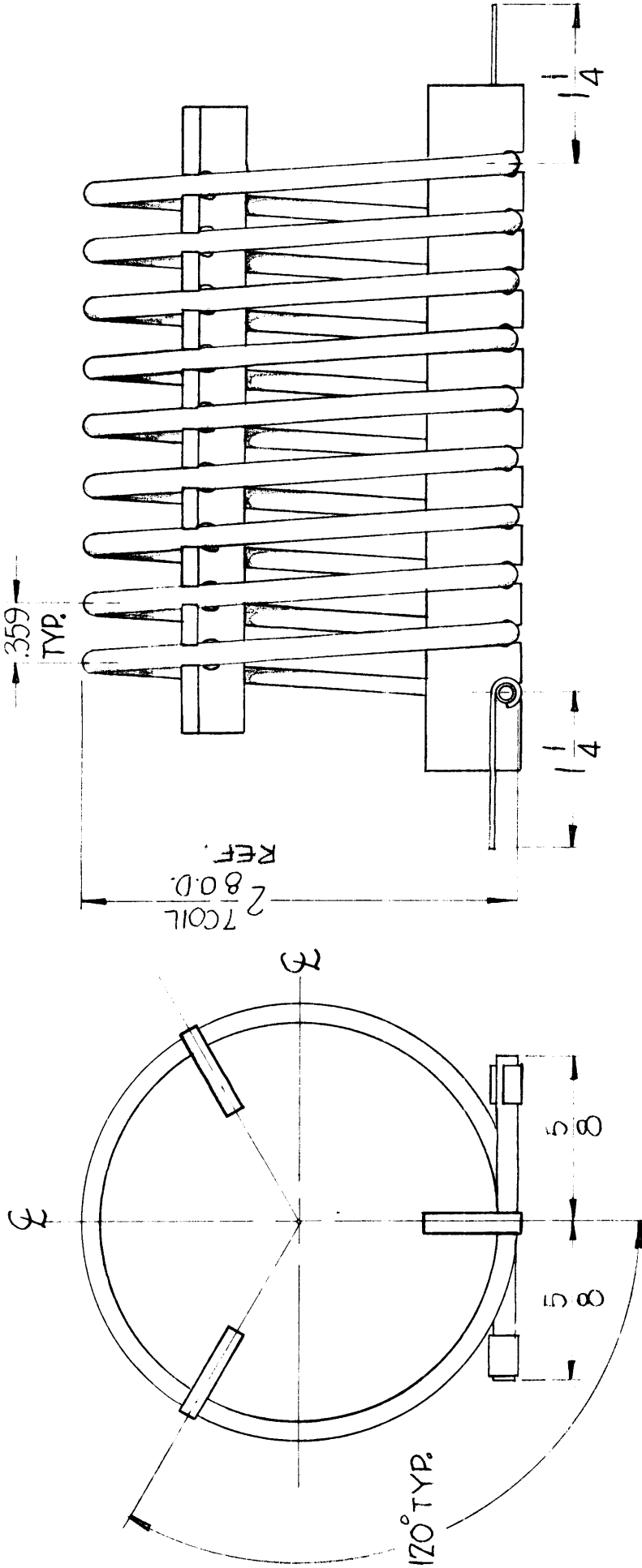
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	FRACTIONS	1/64
DECIMALS	TOLS.	.XX ± .01
	ANGLES	0° .30'
MATERIAL		
FINISH		

QTY / UNIT	CM0	MODEL USED ON	A0 103	ASS'Y NO.
APPLICATION				
CODE				

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

THE TECHNICAL MATERIEL CORP.	MAMARONECK, NEW YORK
COIL, OSCILLATOR, TANK	
SIZE	CODE IDENT. NO. DWG NO.
B	82679 CL 236
SCALE	SHEET OF
	1

CL-266



ELECTRICAL SPECIFICATIONS

3.9 $\mu h \pm 2\%$
 $Q = 350$
 $FREQ = 1.9 Mc$

MECHANICAL SPECIFICATIONS

WOUND ON 2 1/2" DIA. FORM.
 FINISH ~ SILVER PLATE COILS
 .0003 THK.

NOTICE TO USER CONCERNING THIS DRAWING

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From: *[Signature]*

THE TECHNICAL MATERIEL CORPORATION
 MANHATTAN, NEW YORK

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS $\pm 1/64$ DECIMALS $\pm .005$ ANGLES $\pm 1/2^\circ$				2A-2057	
	MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES					

REQ. ITEM	PART NO.	SYMBOL
1	TER-3500-300	3-2-6
	MODEL	DATE
	SECTION	ASSY. NO.
	USED ON	

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		COIL, COMPENSATING	
		3.9 μh	
		DRAWN <i>[Signature]</i>	
		CHECKER <i>[Signature]</i>	
		FINAL APPROVAL <i>[Signature]</i>	
		ELEC. DES. APP. <i>[Signature]</i>	
		MECH. DES. APP. <i>[Signature]</i>	
		FINISH & SPEC. NO.	CL-266

CL-267

ELECTRICAL SPECIFICATIONS

3.32 $\mu h \pm 2\%$

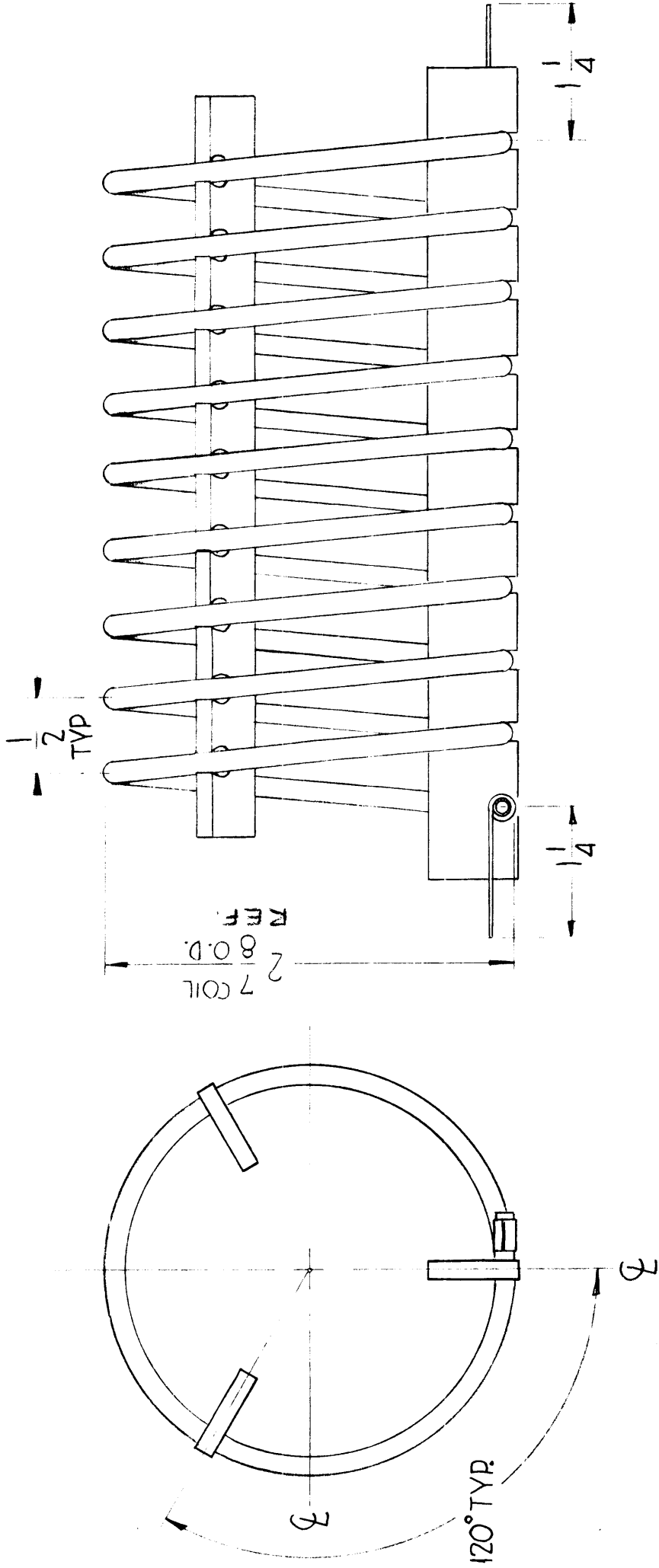
Q = 350

FREQ. = 7.9 MC

MECHANICAL SPECIFICATIONS

WOUND ON 2 1/2" DIA. FORM

FINISH: SILVER PLATE .0003 THK



PLEASE REFER TO DRAWING FOR DIMENSIONS

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

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 MAMARONECK, NEW YORK

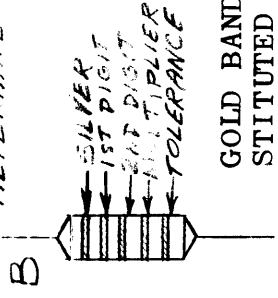
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		COIL, COMPENSATING	
		DRAWN: <i>[Signature]</i>	CHECKER: <i>[Signature]</i>
		TYPE & TEMPER	HEAT TREAT. SPEC.
		FINISH & SPEC. NO.	
		ELEC. DES. APP. MECH. DES. APP.	

TER-3500-300	3-2-61
MODEL	DATE
SECTION	ASBY. NO.
USED ON	
REQ. PER UNIT	

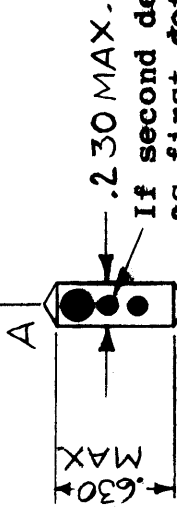
SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS $\pm 1/64$ DECIMALS $\pm .005$ ANGLES $\pm 1/2^\circ$				ZA-2056	
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES						

STANDARD DRAWING

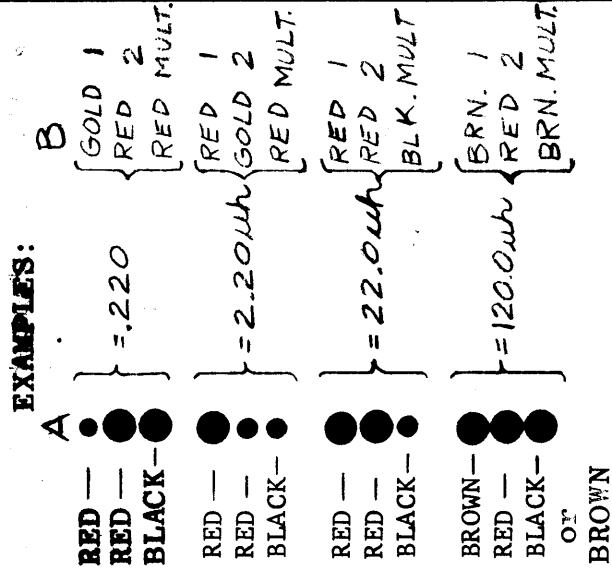
ALTERNATE COLOR CODING



GOLD BAND MAY BE SUBSTITUTED FOR DIGIT BAND SIGNIFYING DECIMAL POINT, IN WHICH CASE MULTIPLIER BAND BECOMES 2ND DIGIT.



If second dot is the same size as first dot, the decimal point follows the second dot. If second dot is of different size than first dot, decimal point follows the first dot.



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MAMARONECK, NEW YORK
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TMC Part No.	MFG. No.	Induct. Uh Tol, ±	Min. Q Freq.	Min. Res. Freq. (MC)	Max. DC Res. Chms	Coil Form	Max. DC Current (MA)
CL-270-0.47	A 4412-17	0.47 20%	50 @ 15 MC	300	0.06	Phenolic	2200
CL-270-0.68	B CE-0.47-P	0.68 20%	50 @ 14 MC	250	0.09	Phenolic	1870
CL-270-1.0	A 4412-3K	1.00 20%	45 @ 10 MC	200	0.15	Phenolic	1490
CL-270-1.5	B CE-1.0-P	1.50 20%	40 @ 7.9MC	160	0.28	Phenolic	1085
CL-270-2.2	A 4412-9K	2.20 20%	40 @ 7.9MC	135	0.50	Phenolic	790
CL-270-2.7	B CE-2.2-P	2.70 10%	40 @ 7.9MC	120	0.80	Phenolic	630
CL-270-3.3	A 4412-11K	3.3 10%	35 @ 6 MC	105	1.00	Phenolic	530
CL-270-3.9	B CE-3.3-P	3.90 10%	35 @ 6 MC	100	1.20	Phenolic	515
CL-270-4.7	A 4412-12K	4.70 10%	35 @ 5 MC	90	1.80	Phenolic	420
CL-270-5.6	B CE-4.7-P	5.6 10%	35 @ 5MC	55	0.13	Powdered Iron	1560
CL-270-6.8	A 4422-1K	6.80 10%	40 @ 4MC	45	0.20	Powdered Iron	1370
CL-270-8.2	B CE-5.6-I	8.20 10%	35 @ 4MC	44	0.25	Powdered Iron	1150
CL-270-10	A 4422-2K	10.0 10%	30 @ 4MC	42	0.30	Powdered Iron	1080
CL-270-12	B CE-6.8-I	12.0 10%	40 @ 3.0MC	34	0.44	Powdered Iron	845
CL-270-15	A 4422-5K	15.0 10%	40 @ 2.5MC	32	0.50	Powdered Iron	770
CL-270-18	B CE-10.-I	18.0 10%	40 @ 2.5MC	28	0.80	Powdered Iron	660
CL-270-22	A 4422-6K	22.0 10%	55 @ 2.5MC	24	1.00	Powdered Iron	565
CL-270-27	B CE-15.-I	27.0 10%	60 @ 2.0MC	22	1.40	Powdered Iron	490
CL-270-33	A 4422-9K	33.0 10%	65 @ 2.0MC	20	1.60	Powdered Iron	420
CL-270-39	B CE-22.-I	39.0 10%	65 @ 2.0MC	18	2.00	Powdered Iron	390

B CL-270

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	STOCK SIZE	COIL, RF, FIXED, MOLDED	
	MATERIAL		
	TYPE & TEMPER		
	HEAT TREAT. SPEC.		
	FINISH & SPEC. NO.		
		DRAWN: M.A.F. CHECKER: [Signature]	
		ELEC. DES. APP. MECH. DES. APP. [Signature]	
		FINAL APPROVAL [Signature]	
		CL 270	B

REVISIONS WITH CHANGES
ADDED EXAMPLE, CLARIFIED NOTES

SCALE: 1/16" = 15.97
DATE: 7-9-63
CH. NO.: 9615
DRAFTS: AK
CHECKER: [Signature]
ENG. APP.: [Signature]

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/20

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

REQ. PER UNIT: 4-28-61
DATE: 4-28-61

SECTION: CHG-2
MODEL: CHG-2
ASSY. NO.:
DATE: 4-28-61

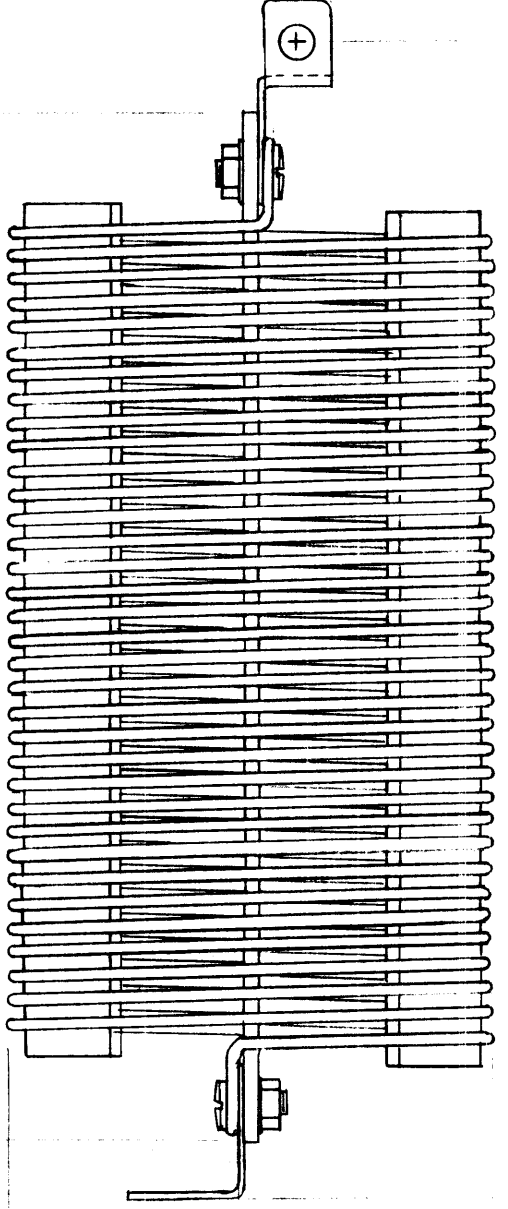
USED ON

N. 1.9

DEFIANCE NO. 102 96882

B. CL-271

58



INDUCTANCE ~ OVER 30 uH
 TEST FREQ ~ 2.5 MC
 Q ~ OVER 200
 SERIES REASONANCE OVER 32 MC

NOTE - THIS COIL MUST BE SHIPPED WITH INSTALLATION DWG, ID-254 WHEN REQUESTED FOR SPARE PARTS.

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 MAMARONECK, NEW YORK

SYMBOL	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	PIC'L CHGD TO AGREE WITH A-3023	9-19-61	5598	WB	WB	WB
A	Note Added Specs. Revised	7-29-61	4971	RA	RA	RA
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .05 ANGLES ± 1/2°						
SCALE: 4-A-3023 MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES						

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		CHOKES, STATIC	
		D. J. [Signature]	0: B
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKER
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
		CL-271	B
			FINAL APPROVAL

REQ. PER UNIT	SECTION	ASSY. NO.	DATE
	GPT-40K		6-14-61
USED ON			

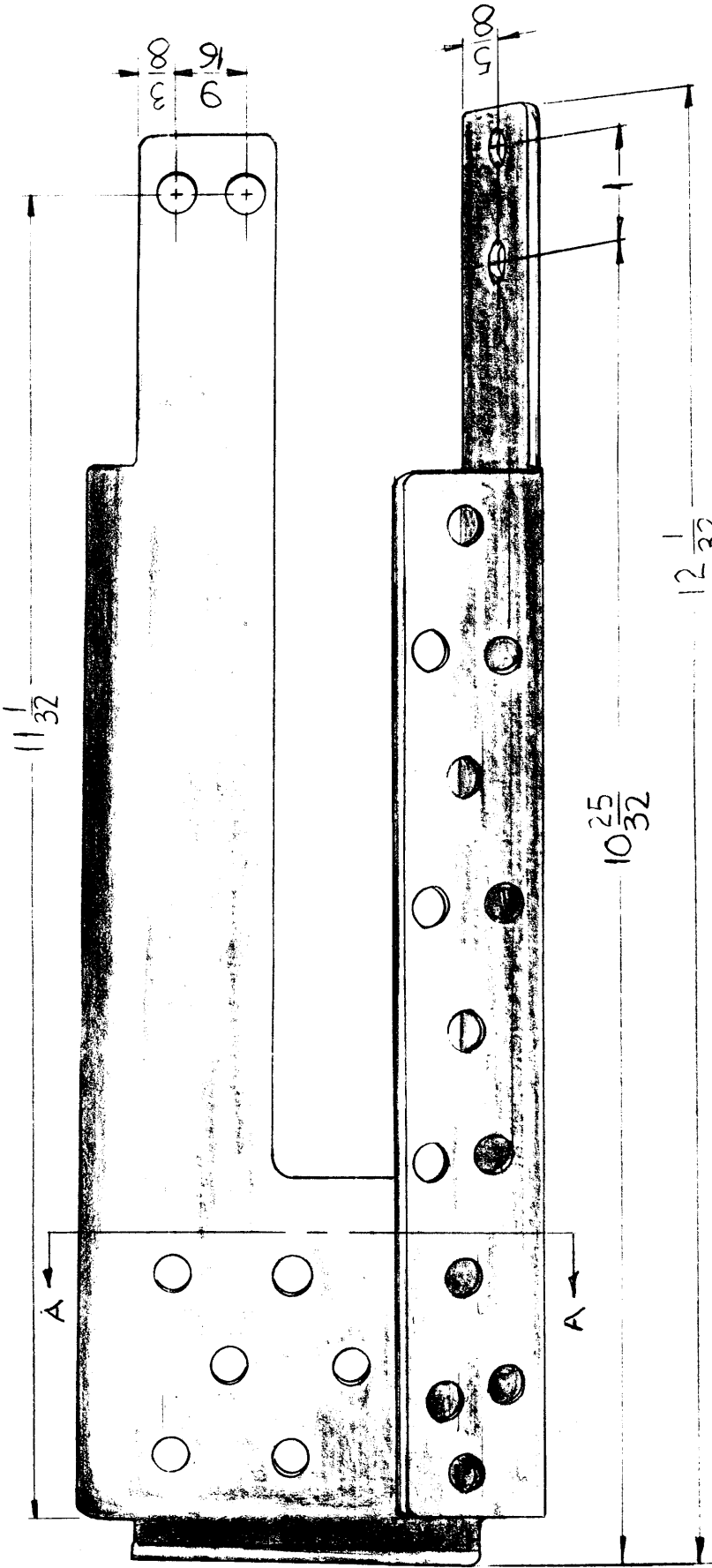
B CL-276

NOTES TO BE READ BEFORE THIS DRAWING

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Property of:

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK



SECTION "A-A"

ELECTRICAL SPECIFICATIONS
L = .175 ± 10% μH
O = 250 OR GREATER
TEST FREQ - 25 MC

NOTE
ALL HOLES 5/16 DIA

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
B	CHGD DIM FR 10/7/32 TO 10 ²⁵ /32 & 11 ²⁵ /32 TO 12 ¹ /32. REVISED FLCT	8.9.66	16711	RME	<i>[Signature]</i>	<i>[Signature]</i>
A	USED ON CHART UPDATED	7/23/63	10642	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

SCALE: **BMS-2664**

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/20

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

REQ. PER UNIT	MODEL	SECTION	ASSY. NO.	DATE
1	GPT-40K	4	AS-125	12-23-63
	GPT-40K	AS-120	AS-120	10-31-61

USED ON

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		COIL, RF TUNING	
		DRAWN <i>[Signature]</i>	1602B
		CHECKER	FINAL APPROVAL
		ELEC. DES. APP. MECH. DES. APP.	CL-276
		FINISH & SPEC. NO.	B

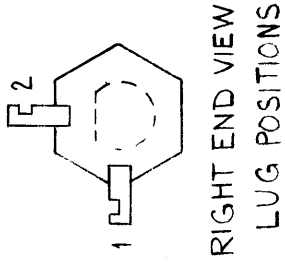
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STANDARD DRAWING

TEST FREQ.	TMC Part Number	Mfr. Number	COIL Color Code	Minimum Inductance Range uh	MIN. Q Mean	DC Res. MAX.	L Distance To Winding	Wire Size AWG	W	X	Y	Coil Form Part Number	R Collar	T Collar	No. of Lugs Per Collar	TOTAL NO. OF LUGS	CORE COLOR CODE
7.9mc	CL-283-1	2060-1	Orange	2.0 - 3.7	50	0.13	11/16 ± 1/32	28E 21 turns	15/32	9/16	1/32	1536-3-3	Yes	Yes	1	2	GRN
7.9mc	CL-283-2	2060-2	Blue	3.5 - 7.0	55	0.5	11/16 ± 1/32	32E 26 turns	15/32	9/16	1/32	1536-3-3	Yes	Yes	1	2	GRN
7.9mc	CL-283-3	2060-3	Green	6.5 - 10.6	80	1.25	3/4 ± 1/32	6/44 litz 32 turns	---	9/16	---	1536-2-5	Yes	No	2	2	RED
2.5mc	CL-283-4	2060-4	Black	10 - 18	70	1.5	3/4 ± 1/32	6/44 litz 43 turns	---	9/16	---	1536-2-5	Yes	No	2	2	RED
2.5mc	CL-283-5	2060-5	Brown	16 - 30	75	2.0	3/4 ± 1/32	6/44 litz 52 turns	---	9/16	---	1536-2-5	Yes	No	2	2	RED
2.5mc	CL-283-6	2060-6	Yellow	28 - 63	80	2.5	25/32 ± 1/32	6/44 litz 68 turns	---	9/16	---	1536-1-5	Yes	No	2	2	YEL
2.5mc	CL-283-7	2060-7	Red	61 - 122	50	4.0	25/32 ± 1/32	6/44 litz 95 turns	---	9/16	---	1536-1-5	Yes	No	2	2	YEL
790kc	CL-283-8	2060-8	Silver	120 - 243	75	6.0	25/32 ± 1/32	6/44 litz 145 turns	---	9/16	---	1536-1-5	Yes	No	2	2	YEL
790kc	CL-283-9	2060-9	White	238 - 450	75	8.0	25/32 ± 1/32	6/44 litz 190 turns	---	9/16	---	1536-1-5	Yes	No	2	2	YEL
790kc	CL-283-10	Special	Gray	440 - 800	85	13.0	3/4 ± 0 - 1/16	6/44 litz 260 turns	---	9/16	---	1536-1-5	Yes	No	2	2	YEL

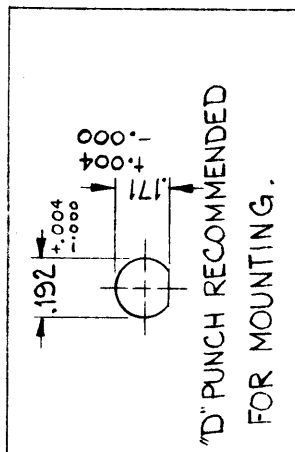
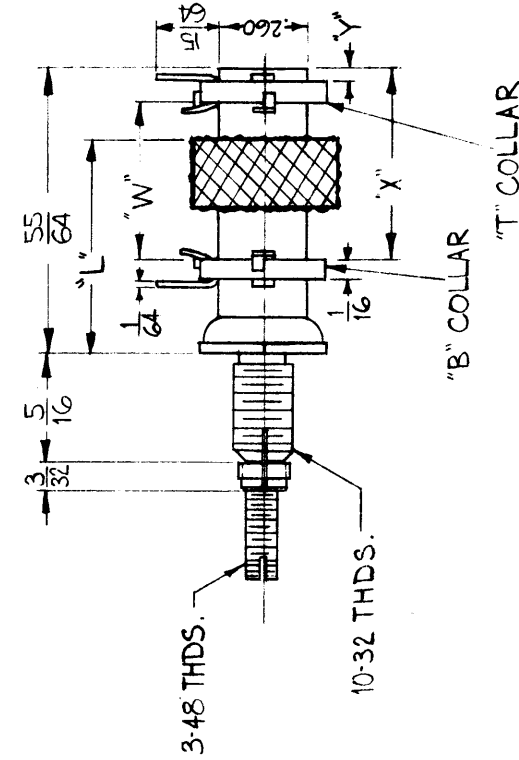
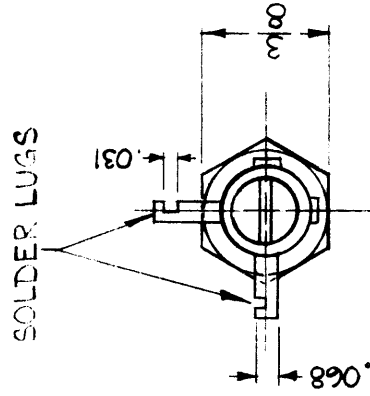
SOLDER LUG ORIENTATION ON FORMS WITH PERMATORG, OR COMPRESSION LOCK HAVING FLATTED STUD.

ONE-LUG COLLARS: POSITION 1
TWO-LUG COLLARS: POSITIONS 1&2



Hardware: Brass Cadmium Plate
Except Phosphor Bronze
Lockwasher, Cadmium Plate

Slug Lock Type: Perma-Torq



"D" PUNCH RECOMMENDED FOR MOUNTING.

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		J. STRUMMER	
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		COIL, RF, Tuned	
		MATERIAL	
		HEAT TREAT. SPEC.	
		FINISH & SPEC. NO.	

REQ. PER UNIT	MODEL	SECTION	ASSY. NO.	DATE
				8-15-62

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
C	OMCL 283-5 IND. WAS 16-28, CHART TITLES REV. Q COLUMN REVISED, CL 283-4 TURNS WERE 48 COIL FORM P/N 1536 XX WAS PLS XXX	9-21-64	12327	SRG		SC
B	TEST FREQ. CORE COLOR COP# ADDED	9-25-62	7230	GR		YB
A	CL-283-10 MFG NO. WAS 2060-10 "L" ADDED TO CHART, COIL ADDED TO DWG. 55/64 DIM WAS 27/32, TOL ADDED TO .002 DIM. CHART REVISED, 15/64 DIM WAS 3/16	4-27-62	6631	EA		YB

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .05 ANGLES ± 1/20

SCALE: 5401-167
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.
REMOVE ALL BURRS AND SHARP EDGES

TYPE & TEMPER	HEAT TREAT. SPEC.	FINISH & SPEC. NO.

TYPE & TEMPER	HEAT TREAT. SPEC.	FINISH & SPEC. NO.

DRN
MAM

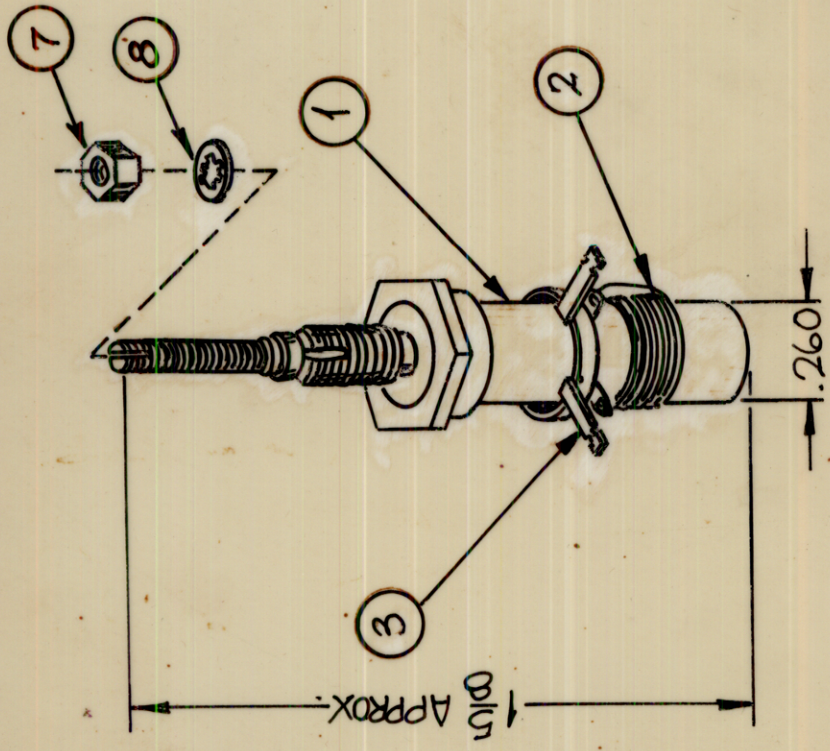
CL-283

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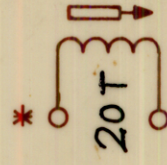
COIL DATA

SPECIFICATIONS	PRIMARY
COIL	CLOSE WOUND
IND (MIN.) ± 1 μH	3 μH W/CORE FULLY RECESSED
IND (MAX.) ± 1 μH	6 μH W/CORE FULLY ENGAGED
Q AT 7.9 MHz	45 or BETTER W/CORE FULLY ENGAGED
COIL RES.	1 Ω
WINDING DATA	
TURNS	20
WIRE	MAGNET WIRE, SINGLE

- WINDING INSTRUCTIONS
- 1 - CLOSE WIND 20 TURNS OF ITEM (2) STARTING 3/8" FROM BUSHING AS SHOWN.
 - 2 - STAKE COIL IN PLACE WITH ITEM (4).
 - 3 - CLEAN & TIN LEADS & MOUNT ITEM (3).
 - 4 - MEASURE & IND. (MAX & MIN) Q, & COIL RES. COIL MUST MAKE BOTH MAX & MIN IND. BUT MAY EXCEED EITHER LIMIT BY 1 μH
 - 5 - SATURATE COIL WITH ITEM (5).



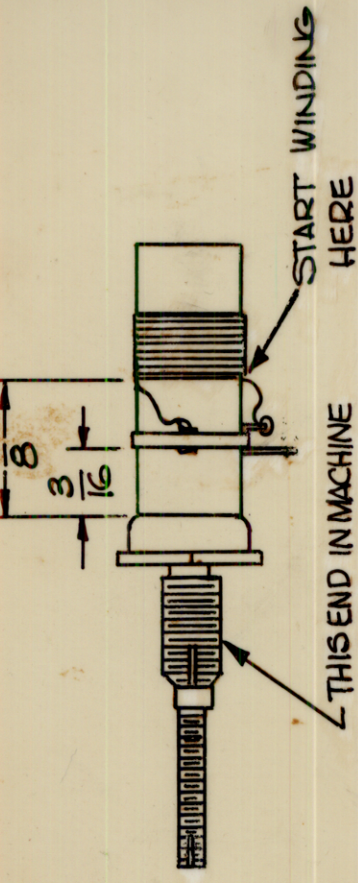
* INDICATES START OF WINDING.



SCHEMATIC DIAGRAM

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
D	REDRAWN (WAS "I" SIZE)	5/27/64	100			O.P. Jde

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 TOLERANCES ON
 FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/2°
 SCALE: DO NOT SCALE
 MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED, AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.
 REMOVE ALL BURRS AND SHARP EDGES



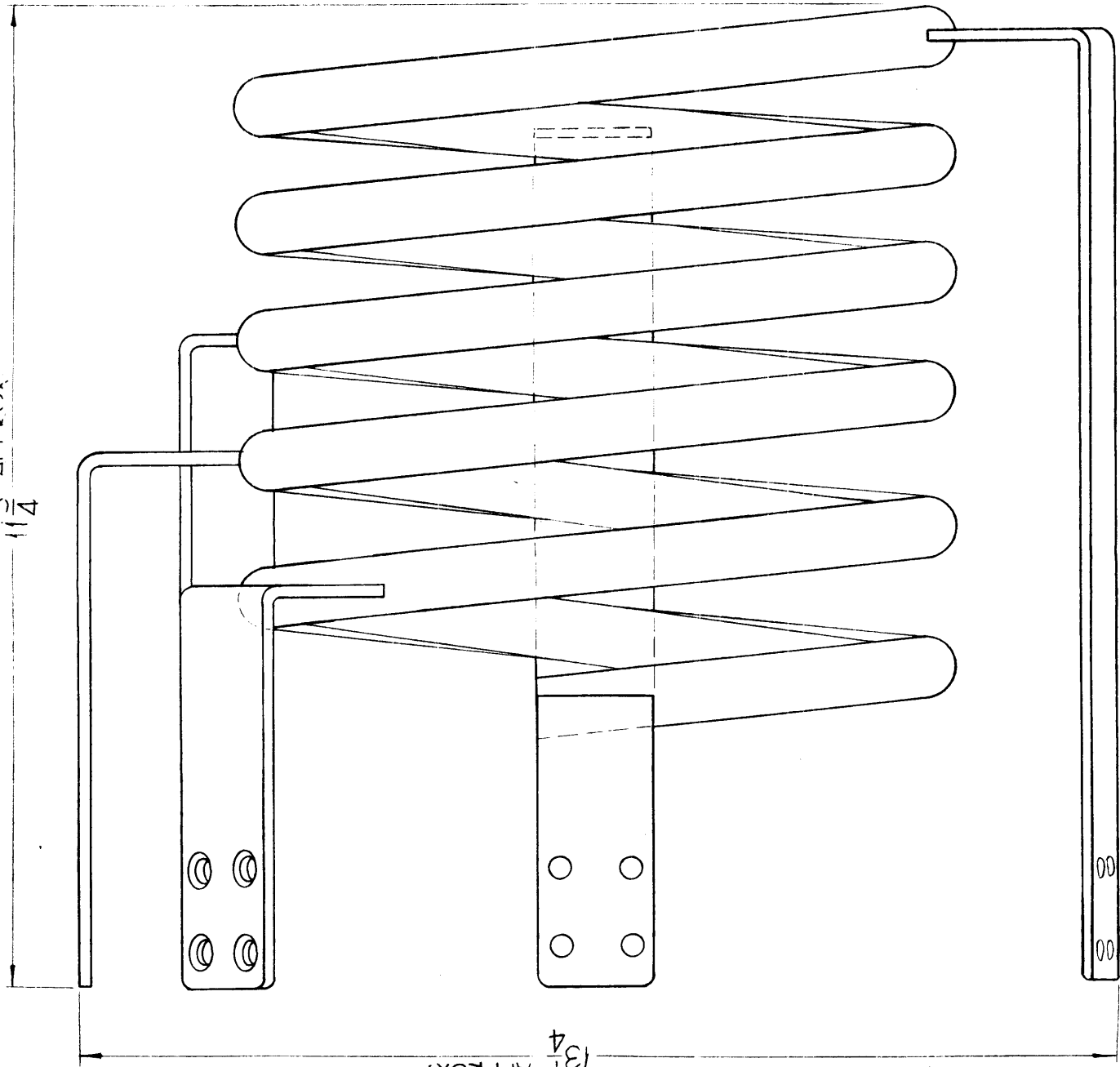
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
1	8	LW10MRN	WASH., LK, INT
1	7	NTH1032BN10	NUT, PLN, HEX
X	6	BS 100	SOLDER, TIN ALLOY
X	5	GL 102	ADHESIVE - Q - MAX
X	4	GL 103	ADHESIVE - N - CEL
1	3	TE 195-2A	TERM., LUG - COLLAR
X	2	WI 122-37	WIRE, ELEC, MAG, T
1	1	CF 134-5-E	FORM, COIL, W/CORE

STOCK SIZE		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
MATERIAL		COIL, RF	
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
FINISH & SPEC. NO.		ELEC. DES. APP. MECH. DES. APP.	
		FINAL APPROVAL	
		CL 294 D	

REVISIONS

SYN	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
0	ORIGINAL RELEASE FOR PRODUCTION	5-18-64		WPB		
A	ON SPECS. MCS, WAS MICRO HENRIES	3-3-66	15841	GDL	QPS	MA

11 3/4 APPROX



13 1/4 APPROX

SPECIFICATIONS:

Q = 250
 INDUCTANCE = 3.3 } AT 7.9 MCS.
 TOL. ± 20%

CL-311

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

THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
TITLE COIL ELECTRICAL, BANDSWITCH PI-2				
DRAWN G. B. Filippo		DATE 5-21-63	FINAL APPROVAL RAC	
CHECKED JA		DATE	DATE	
ELECT. DES. G. B. Filippo		DATE 8/3/64	DATE	
MECH. DES. RAC		DATE	DATE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES			CL-311	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005		FRACTIONS ± 1/64 ANGLES ± 0° 30'		REV. LTR. A
TOLERANCES		SHEET		

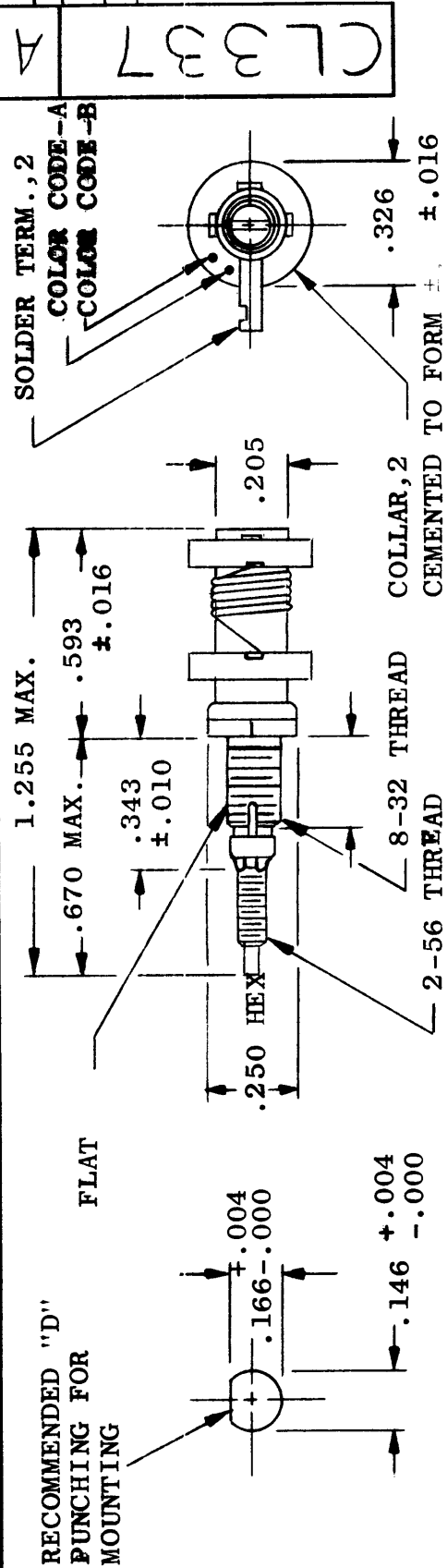
QTY./UNIT	MODEL USED ON	ASBY. NO.
1	GPT-200 K	AS124
SCALE	CODE	
	A-3164 (4)	

NOTES

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REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
0	ORIGINAL RELEASE FOR PRODUCTION	5/13/64	7	JL		
A	ON CHART: BASIC CORE MAT'L WAS CARBONYL J (GRN)	9.24.64	124-51	MB		



TMC PART NUMBER	MFGR. PART NUMBER	COLOR CODE	INDUCTANCE RANGE	MIN. Q AT INDUCTANCE	MAX. DC RES.	NO. OF LUGS PER COLLAR	TOTAL NO. OF LUGS	TEST FREQ.	WIRE SIZE	APPROX. NO. OF TURNS	DC CURRENT MA	SRF MIN. MC	BASIC CORE MATERIAL
CL-337-1	3338-8	GRAY	MIN. .87μH MAX. 1.3μH	MIN. 75 MAX. 65	.084	1	2	25 MC	28	14	635	190	CARBONYL J (BLU)

NOTE:
MOUNTING HARDWARE SUPPLIED UNASSEMBLED:
INTERNAL TOOTH LOCKWASHER
MOUNTING HEX NUT

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
	GELLMAN		LIST OF MATERIAL	
	MATERIAL	#	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	FINISH	#	COIL, R.F., TUNED	

QTY./UNIT	SCALE	MODEL USED ON	ASSY. NO.
#	#	C	S401-167
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NOTES

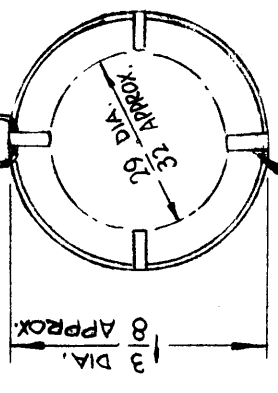
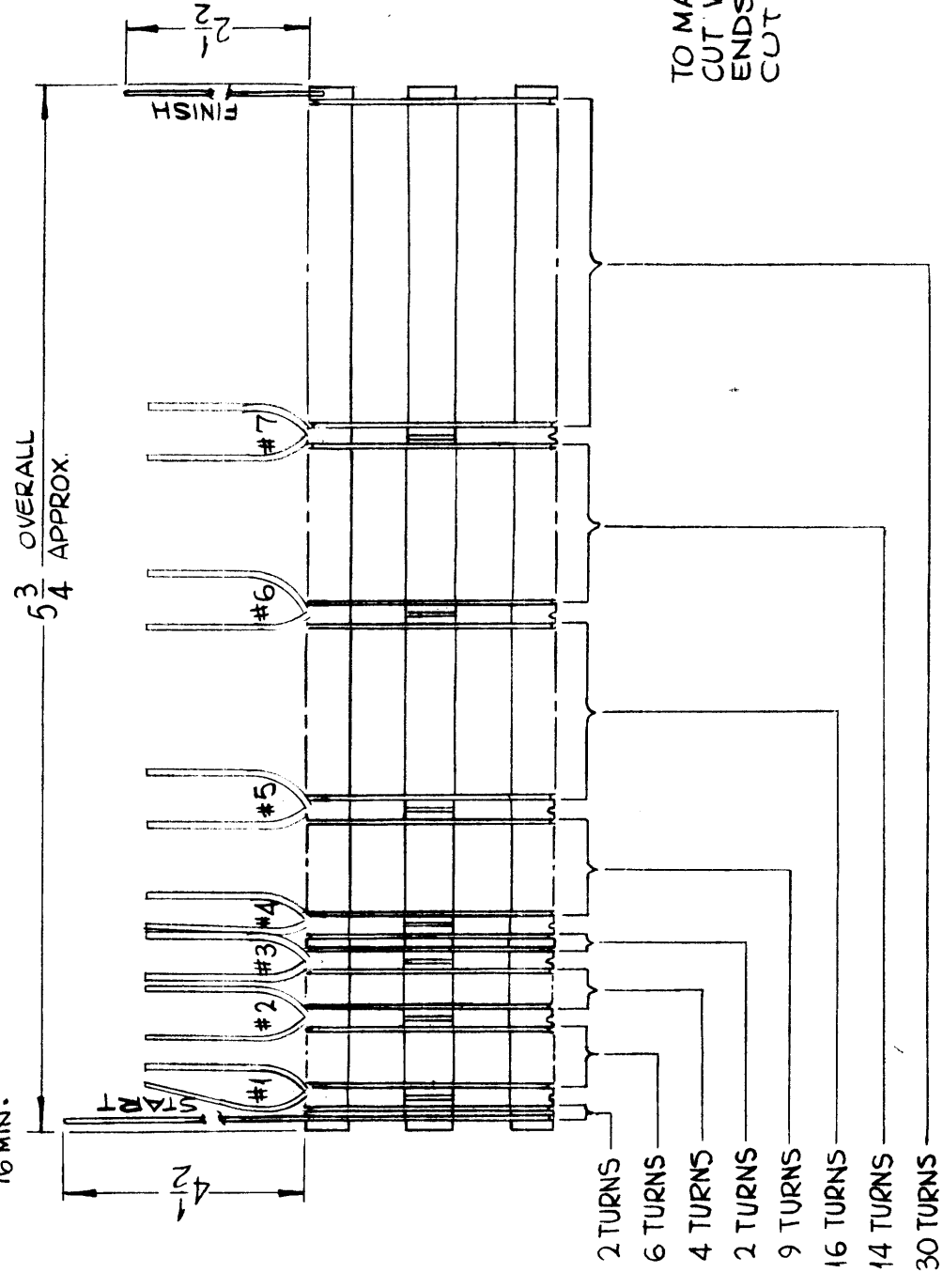
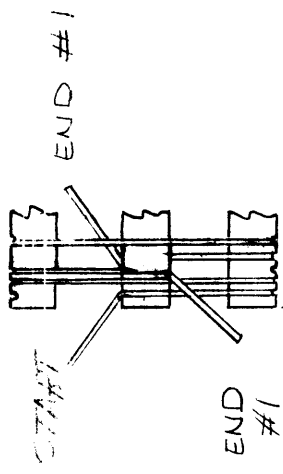
DRAWN	DATE	DATE	DATE	DATE
J. LESHINSKI	5/4/64	5-13-64		
CHECKED				
ELECTRICAL				
MECH. DES.				

CL337 A

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
X	EXPERIMENTAL RELEASE	10-20-64	X	SRG		
Ø	ORIGINAL RELEASE FOR PRODUCTION	10-20-64	Ø	J.F.		
A	TAP END REVISED	1-31-67	17747	W.H.D.		

CL346



TO MAKE TAPS - CUT WIRE HERE AND BEND ENDS BACK; DO NOT CUT ENDS.

SPECIFICATIONS

WINDING DATA:
 TYPE: SINGLE LAYER 16 TURNS/INCH
 NO. OF TURNS: 83
 INDUCTANCE - SEE CHART
 D.C. RESISTANCE - APPROXIMATELY 0.2Ω
 CURRENT RATING - 2 AMPS AT 30MC, 3 AMPS AT 2 MC
 MATERIAL - COPPER #20 AWG
 FINISH - BRIGHT TIN OR SILVER PLATE
 COIL FORM - FOUR POLYSTYRENE BARS EVENLY SPACED
 CORE - NONE
 CASE DATA - NONE
 TERMINAL DATA - SEE PICTORIAL

	#1	#2	#3	#4	#5	#6	#7	#8
L ± 5%	.47μ	2.74μ	4.72μ	5.82μ	9.86μ	19.4μ	28.3μ	48.5μ
Q	136	186	217	228	175	210	230	256
F	25MC	7.9MC	7.9MC	7.9MC	2.5MC	2.5MC	2.5MC	2.5MC

MEASUREMENTS TAKEN ON BOONTON Q METER, MODEL 260A. START IS COMMON TERMINAL TO ALL READINGS. COIL SHOULD BE 1 1/2" ABOVE METER TERMINALS.

PURCH. NOTE: MANUFACTURERS PART NUMBER IS THE BASIC COIL (WITHOUT TAPS) AND IS TO BE MODIFIED AS SHOWN.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
LIST OF MATERIAL				
MATERIAL	SEE SPECS		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH	SEE SPECS		COIL, RE, FIXED	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		FRACTI. NS ± 1/64 ANGLES ± 0° 30'	DATE	DATE
DECIMALS .X ± .08 .XX ± .01 .XXX ± .005		TOLERANCES	DRAWN SRG	FINAL APPROVAL
			CHECKED	DATE 16-28-64
			ELECT. DES.	DATE 10/28/64
			MECH. DES.	DATE 10/28/64
			SHEET	REV. LTR.
			CL346	A

NOTES

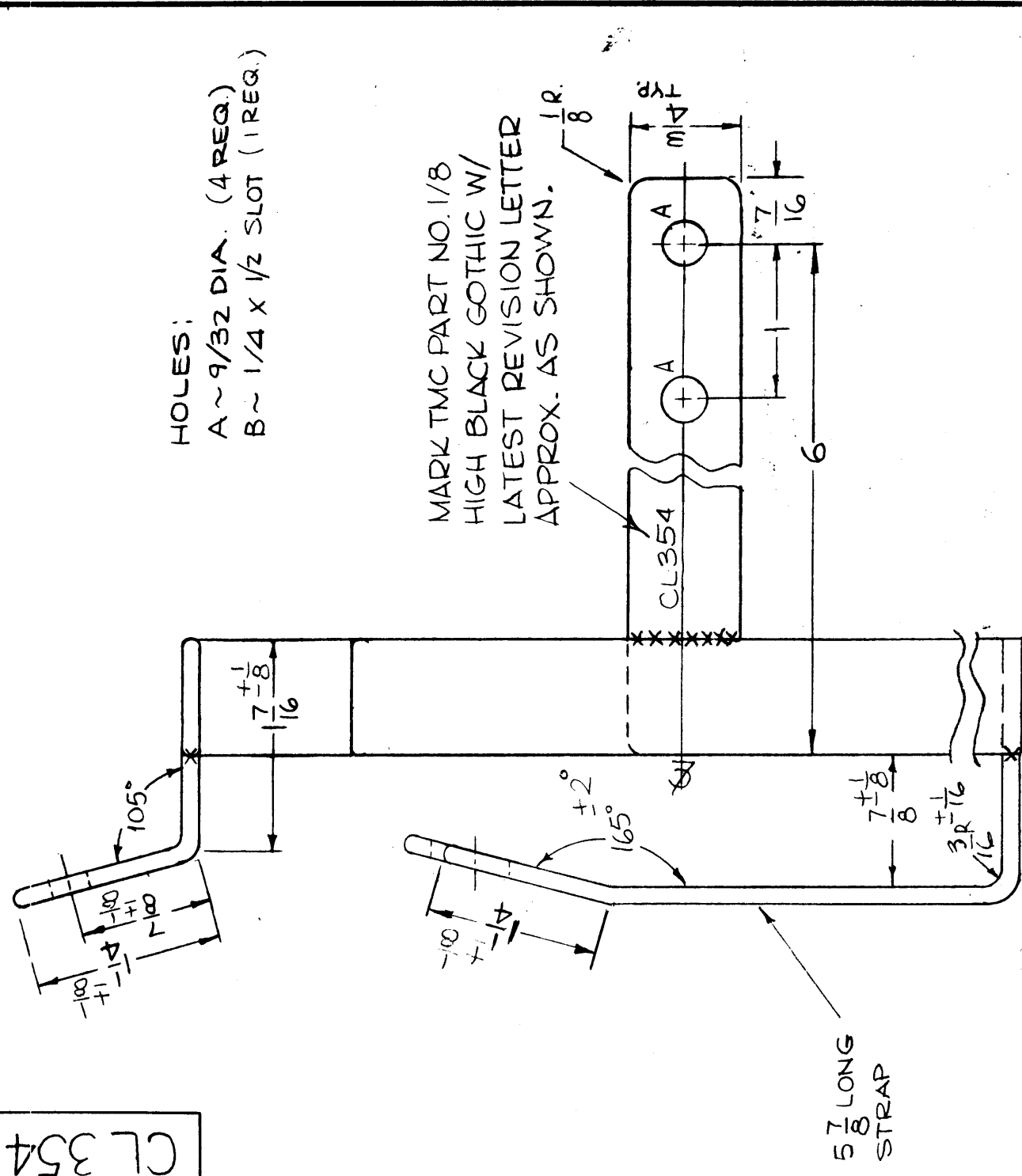
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QTY./UNIT	SCALE	MODEL USED ON	ASSY. NO.
1	TTC-1	C	S401-320 (10-16-T)

REVISIONS		DATE	E.M.N. NO.	DRAFT	CHKD	APPD
SYM	DESCRIPTION	6.6.66	16341	WTV	CLB	CLB
A	TOL ADDED TO DIM. P/N ADDED					

CL 354

NOTE:
DIMENSIONS INDICATED ARE OF
COIL MOUNTED IN ITS PROPER
LOCATION ON APPROPRIATE
ASS'Y (AS126)



HOLES:
A ~ 9/32 DIA. (4 REQ.)
B ~ 1/4 X 1/2 SLOT (1 REQ.)

MARK TMC PART NO. 1/8
HIGH BLACK GOTHIC W/
LATEST REVISION LETTER
APPROX. AS SHOWN.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
X	1	BS101	BRAZING ALLOY, SILVER	

LIST OF MATERIAL	
F. BUDETTI	
MATERIAL	1/8 THICK COPPER COLD ROLLED
FINISH	S245 SILVER PLATE S423 SILVER-KOTE

THE TECHNICAL MATERIEL CORP.		MAMARONECK, NEW YORK	
TITLE		COIL, RF	
DRAWN	SRG	DATE	3-15-65
CHECKED	off	DATE	3/15/65
ELECT. DES.		DATE	
MECH. DES.		DATE	3/16/65
SHEET		CL 354	
REV. LTR.		A	

QTY./UNIT	MODEL USED ON	ASS'Y. NO.
1	TST (110K	
SCALE	CODE	
DO NOT SCALE	A	

NOTES

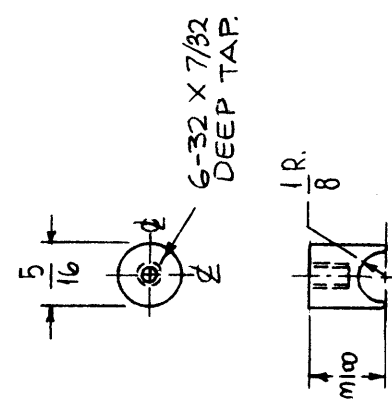
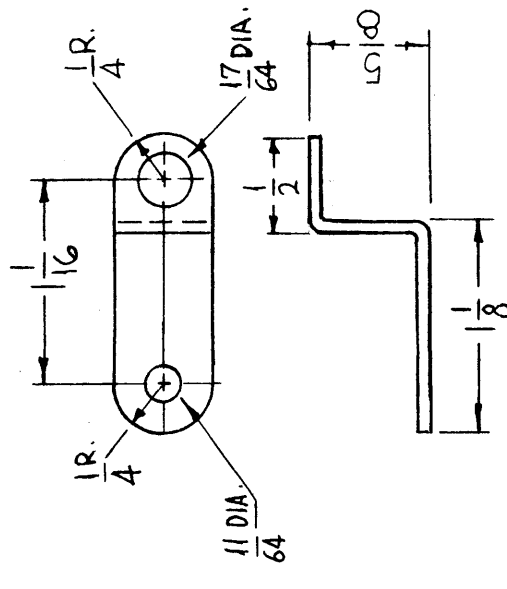
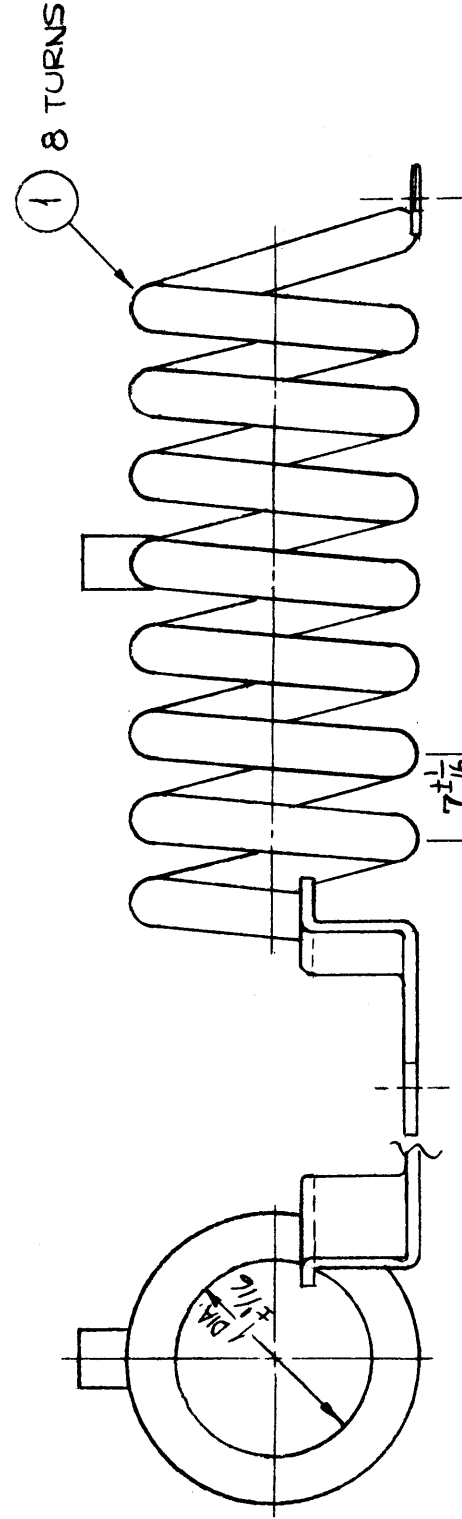
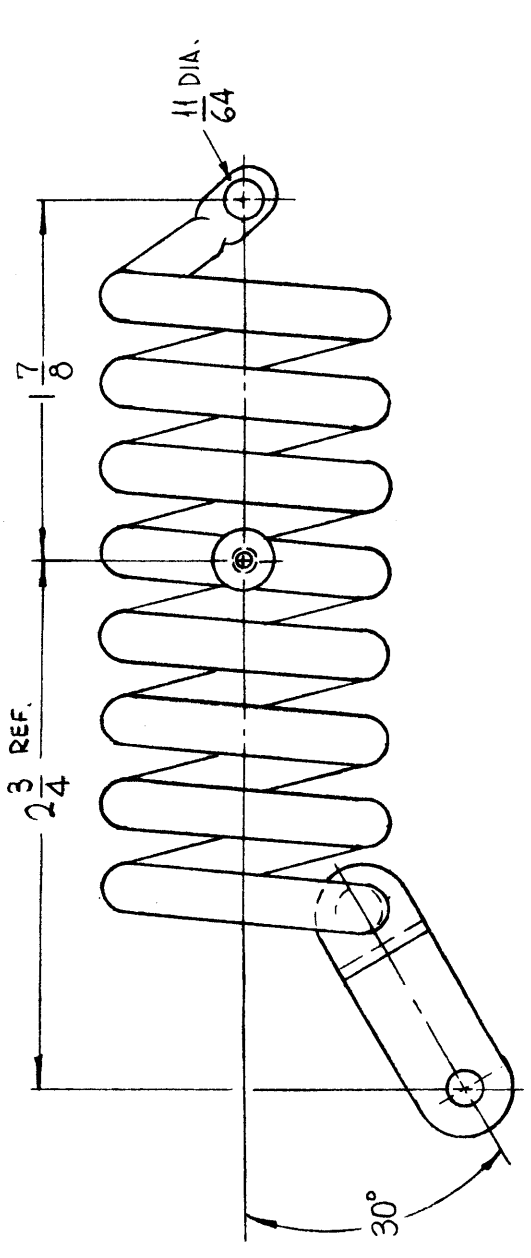
1- * TO BE APPROX. $26\frac{3}{4}$ LONG.
2- X SILVER SOLDER TOGETHER AS SHOWN,

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REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
X	EXPERIMENTAL RELEASE	2-4-65	X	SRS		
X1	ITEM 2 ADDED	8-26-65	X1			
Ø	ORIGINAL RELEASE FOR PRODUCTION	4-14-66	Ø			
A	ADDED ± 1/16 TO 1 DIA. & 7/16 TYP	8/26/66	16812	CED		

CL 356



MATERIAL ~ BRASS

MATERIAL ~ 1/16 COPPER.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
X	2	BS101	BRAZING ALLOY, SILVER	
X	1	TU100-4N	TUBBING, COPPER	

LIST OF MATERIAL

MATERIAL SEE DWG
 THE TECHNICAL MATERIEL CORP.
 MAMARONECK, NEW YORK

FINISH S245 SILVER PLATE
 S423 SILVER KOTE
 UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES AND INCLUDE
 CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS	FRACTIONS	TOLERANCES	ANGLES
.X ± .05	± 1/64		
.XX ± .01			
.XXX ± .005			

NOTE:
 SILVER SOLDER ALL PARTS
 TOGETHER, AS SHOWN.

NOTES

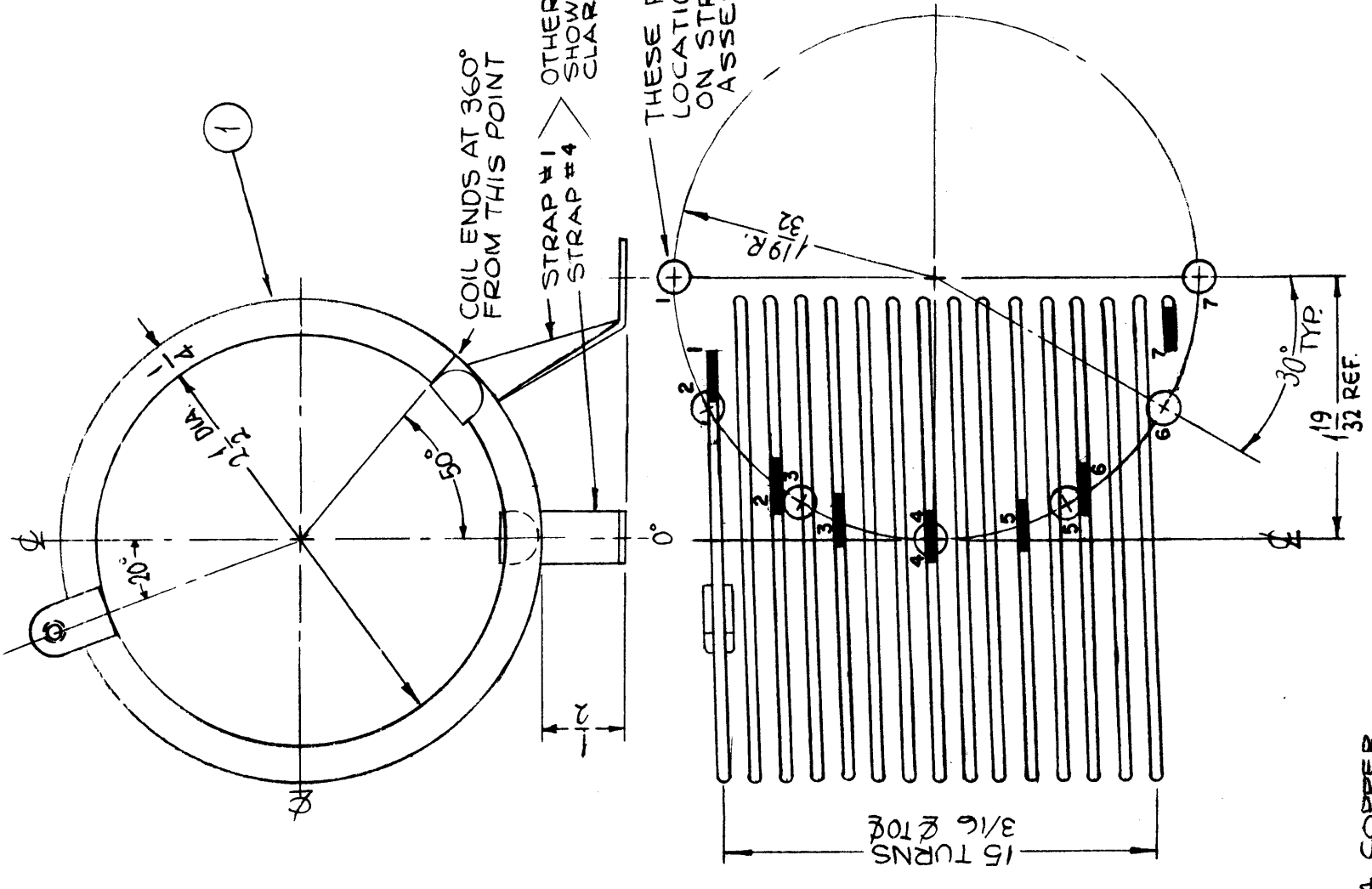
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 REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

QTY./UNIT	MODEL USED ON	ASSY. NO.
SCALE 1:1	CODE A	

COIL, RF

DRAWN	DATE	FINAL APPROVAL	DATE
SRS	7/11/66		4/14/66
CHECKED	DATE	ELECT. DES.	MECH. DES.
SHEET		REV. LTR.	DATE
CL 356		A	

CL357



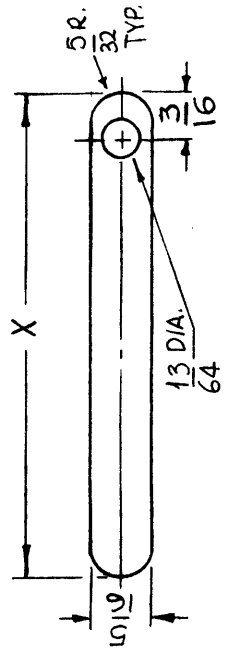
MAT'L ~ (COIL) .054 COPPER
 NOTE ~ SILVER SOLDER ALL PARTS AS SHOWN.

NOTES

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QTY./UNIT	1	MODEL USED ON	RFTA-1	ASSY. NO.
SCALE	1:1	CODE	A	

BYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
X	EXP. RELEASE	3-2-65	X	SRG		
X1	OG25 WAS .070, THICKNESS WAS 1/16, COIL ROTATED STRAP 2 WAS 1-5/8, 3 WAS 1-1/2, 5 WAS 1-1/2, 6 WAS 2 5/8 WAS 30, 53 WAS 43	4-13-65	X1	SRG	OA	
X2	ON STRAP DIM 1/4 WAS 3/16, STRAP 2 WAS 1-3/8 STRAP 6 WAS 1-7/8 STRAP 7 1/2. MATERIAL WAS .002 THK	6-15-65	X2	C.D.L		
Ø	ORIGINAL RELEASE FOR PROD	7/13/66	Ø			



STRAP	X	DEGREE FROM 0°	FROM TO
1	2-1/8	50°	1 1
2	1-3/4	12°	2 2
3	1-5/8	4°	3 3
4	1-5/8	0°	4 4
5	1-5/8	4°	5 5
6	1-7/8	12°	6 6
7	2	53°	7 7

MATERIAL ~ HOT ROLLED COPPER
 .028 THICK

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
1	1	CL133-3-R-15-CW	COIL, RF	

LIST OF MATERIAL

F. BUDETTI
 SEE DWG

THE TECHNICAL MATERIEL CORP.
 MAMARONECK, NEW YORK

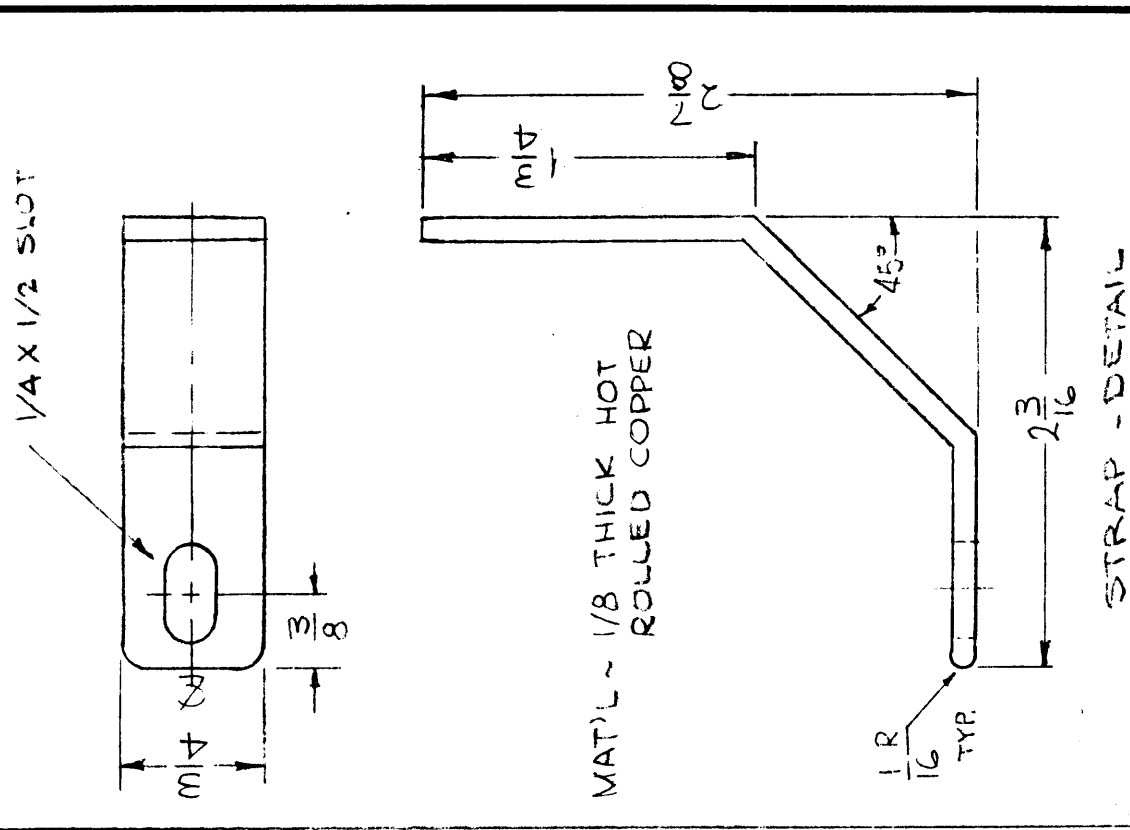
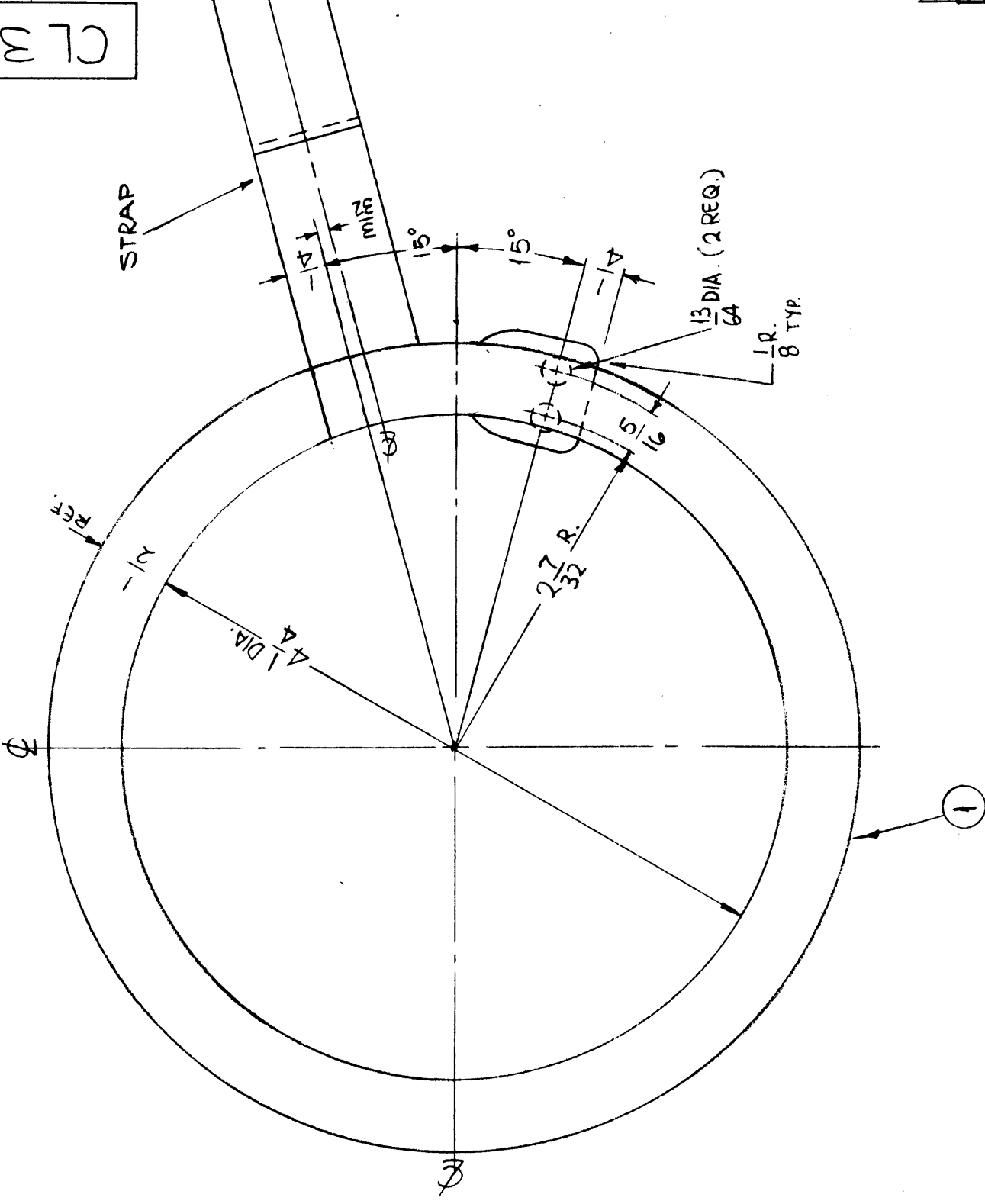
TITLE
 COIL, RF-L SECTION

DRAWN	SRG	DATE	3-2-65	FINAL APPROVAL	DATE	4/13/66
CHECKED	SRG	DATE	4/12/66			
ELECT. DES.		DATE				
MECH. DES.		DATE	4-13-66			
				CL357		
						REV. LTR.

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
X1	2-3/16 WAS 2-5/16, 2-7/8 WAS 3-1/2, 1-3/4 WAS 2-3/8	4-27-65	X1	SEL	CA	
Ø	ORIGINAL RELEASE FOR PRODUCTION	4-20-66	Ø	CV		

CL 369



REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
1	TU100-8N		TUBE, COPPER	

LIST OF MATERIAL

F. BUDETTI
MATERIAL SEE DWG
THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

FINISH S245 SILVER PLATE
S423 SILVER KOTE
TITLE COIL, HF (PI SECTION)

DRAWN	DATE	FINAL APPROVAL	DATE
SRG	4-9-65		
CHECKED			
ELECT. DES.			
MECH. DES.			

CL369
SHEET
REV. LTR. Ø

NOTES -
- SILVER SOLDER AS SHOWN,
- ROUND ALL EDGES & CORNERS

NOTES

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

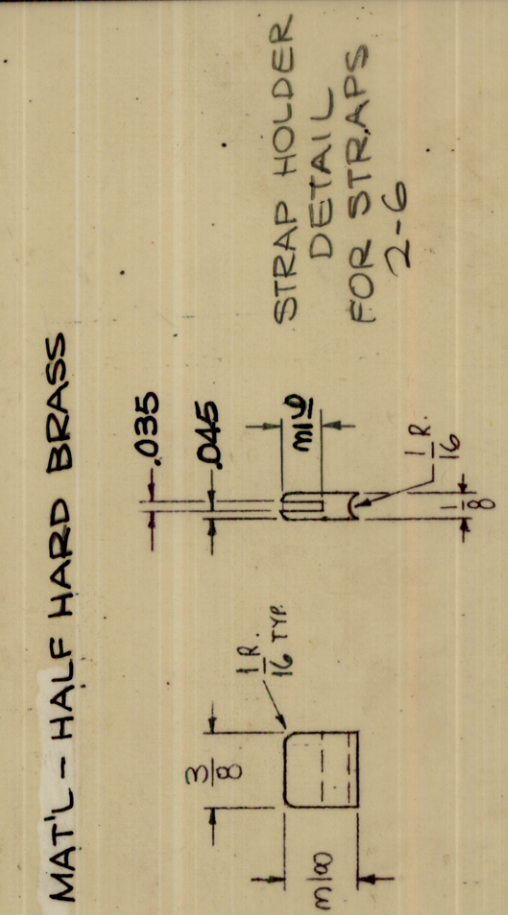
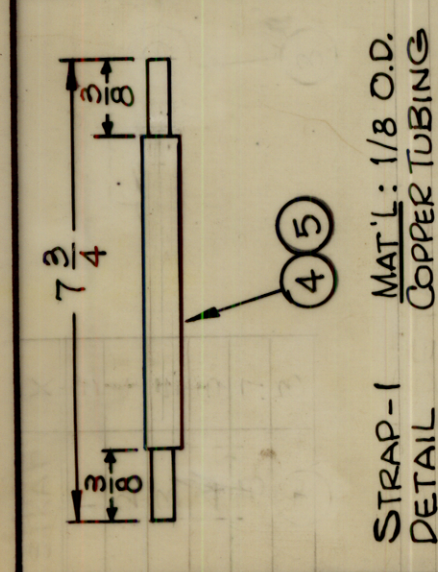
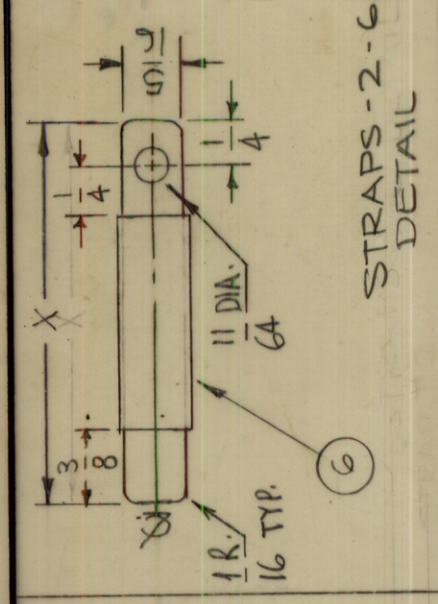
QTY./UNIT	MODEL USED ON	ASBY. NO.
1	TSTE-10K	

REVISIONS		DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
X1		S423 ADDED TO FINISH	7-1-65	X1	HLA	HLA	
X2		STRAPS ADDED, STRAPS 2,3,5 RELOCATED	8-11-65	X2	HLA	HLA	
Ø		ORIGINAL RELEASE FOR PRODUCTION	3-3-66	M	Jc	Jc	
A		Rev. Strap 1 Detail; Dele. Its. 3 & 7	5-2-66	16194	HLA	HLA	

CL 385

STRAP	X
2	4
3	5
4	3
5	7
6	3

MAT'L: .031 THICK HOT ROLLED COPPER



REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
	7	DELETED		
X	6	PX 370-2-7-*	INS. SLEEVING, TEFLON	
X	5	PX 370-3-7-*	INS. SLEEVING, TEFLON	
X	4	PX 370-6-7-*	INS. SLEEVING, TEFLON	
	3	DELETED		
1	2	BS101-2	BRAZE, ALLOY, SILVER	
1	1	CL133-2R.750CW	COIL, RF	

LIST OF MATERIAL

MATERIAL
F. BUDETTI

THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

TITLE
COIL, RF

QTY./UNIT	MODEL USED ON	ASSY. NO.
1	TST-10K	

SCALE 1:1

CODE A

DATE 6-15-65
DATE 3-2-66
DATE
DATE

DRAWN HLA
CHECKED Jc
ELECT. DES.
MECH. DES. HLA

FINAL APPROVAL HLA
DATE 3/2/66

CL 385

REV. LTR. A

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

TOLERANCES
DECIMALS ± .05
ANGLES ± .01
FRACTIONS ± 1/64
ANGLES ± 0° 30'

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NOTES

- NOTE: - REMOVE ALL SHARP EDGES;
- SILVER SOLDER STRAP HOLDERS AND STRAPS TO COIL.
- * CUT AS REQ.

