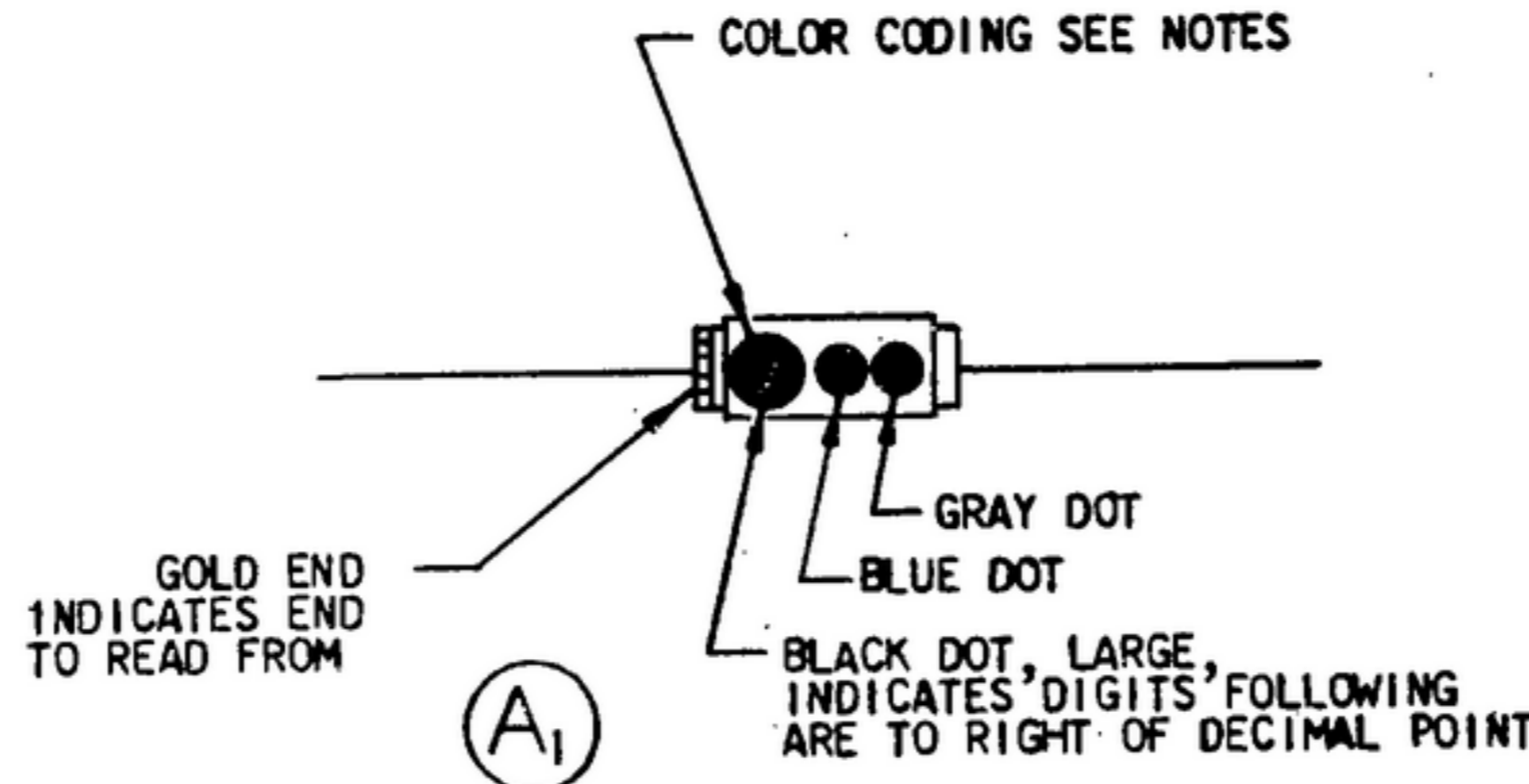
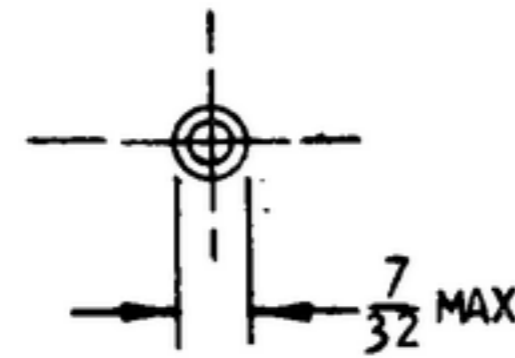
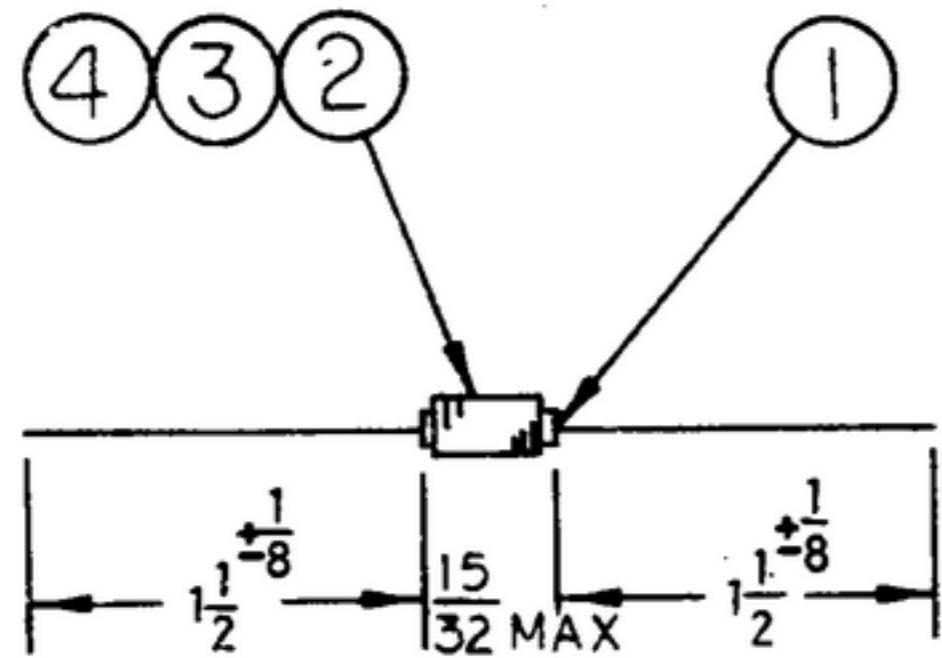


NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

"THIS DOCUMENT HAS BEEN PURCHASED BY THE GOVERNMENT AND MAY BE REPRODUCED AND USED IN CONNECTION WITH ANY GOVERNMENT PROCUREMENT OR MAINTENANCE OPERATION."

NOTE:
DATA MARKED BY AN ASTERISK (*) ARE FOR INFORMATION ONLY, CONTRACTOR MAY, AT HIS OPTION, DEVIATE FROM THESE DETAILS

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
C ₁	ADDED LIST OF MATERIAL & PICTORIAL. C ₂ - REVISED NOTE & TABLE	12 AUG 62	21582-PC-61 REV D
D	Revised & Redrawn	12 FEB 65	21582-PC-61 REV D PME



A₂ NOTES:

- DESCRIPTION: RADIO FREQUENCY CHOKE IN ACCORDANCE WITH SPEC MIL-C-15305, GRADE 1, CLASS O, WITH EXCEPTIONS AS NOTED.
 - APPARENT INDUCTANCE: SHALL BE AS SHOWN IN THE TABLE WHEN MEASURED AT THE DIRECT READING FREQUENCY OF A BOONTON MODEL 160A Q-METER, AS SUPPLIED BY BOONTON RADIO CORP., BOONTON, N.J., OR EQUAL. A SUITABLE TEST JIG MAY BE USED IN PRODUCTION TESTING PROVIDING A CORRECTION FACTOR IS USED BASED UPON THE SPECIFIC METHOD EMPLOYED.
- | INDUCTANCE RANGE | DIRECT READING FREQUENCY |
|------------------------|--------------------------|
| 0.1 TO 1.0 MICROHENRY | 25.0 MC |
| 1.0 TO 10 MICROHENRY | 7.9 MC |
| 10 TO 100 MICROHENRY | 2.5 MC |
| 100 TO 1000 MICROHENRY | 790 KC |
- Q: MINIMUM VALUE SHALL BE MEASURED ON A BOONTON MODEL 160A Q-METER AS SUPPLIED BY BOONTON RADIO CORP., BOONTON, N.J., OR EQUAL.
- CURRENT CAPACITY: SEE TABLE, BASED ON 1/3 WATT DISSIPATION AT 25° C. CURRENT CAPACITY SHALL BE DERATED TO 80% OF THE 25° C VALUE AT 85° C AND TO 70% AT 105° C.
 - AMBIENT TEMPERATURE RANGE: -55° C TO +105° C STORAGE TO -62° C. SEE CURRENT CAPACITY FOR DERATING.
 - COIL FORM: MINERAL FILLED PHENOLIC, TYPE MFE IN ACCORDANCE WITH SPEC MIL-M-14, 2 AXIAL LEADS, NO. 21 OR NO. 22 AWG COPPER, TINNED FULL LENGTH. SUPPLIED BY SPEER RESISTOR CO. NO. CFBR 125 X 3/8.
 - RESONANT FREQUENCY: RESONANT FREQUENCY SHALL BE AS INDICATED WHEN MEASURED ON A MEASUREMENTS CORPORATION MEGACYCLE METER TYPE 59, AS SUPPLIED BY MEASUREMENTS CORP., BOONTON, N.J., OR EQUAL. LEADS SHALL BE EXTENDED AXIALLY FOR THEIR FULL LENGTH.
 - WIRE: INSULATED COPPER MAGNET WIRE, TYPE T2 NO. 30 AWG PER MIL-W-583.
 - WINDING DATA, RECOMMENDED: SINGLE LAYER SOLENOID, 21 TURNS.
 - COATING: 1 COAT OF POLYWELD 912 AS SUPPLIED BY AMPHENOL, CHICAGO, ILL.
2 COATS OF VARNISH PER SPEC. MIL-V-173, TYPE 1, OR APPROVED EQUIVALENT COATINGS.
 - MARKINGS: INDUCTANCE VALUE IN MICROHENRIES SHALL BE INDICATED BY 3 COLOR DOTS.
 - DIELECTRIC STRENGTH TEST VOLTAGE: 500 V RMS.
 - INSULATION RESISTANCE MEASUREMENT: APPLICABLE INITIALLY AND AFTER ENVIRONMENTAL TESTS.
 - TEMPERATURE RISE TEST: NOT APPLICABLE.
 - TERMINAL PULL MAGNITUDE: 5 POUNDS
 - TERMINAL TWIST: SHALL CONFORM TO REQUIREMENTS OF PARAGRAPH 4.7.7.2 OF SPEC MIL-C-15305.
 - MECHANICAL SHOCK TEST: NOT APPLICABLE
 - FINAL ELECTRICAL MEASUREMENTS: APPLICABLE FOLLOWING 4 TO 24 HOUR CONDITIONING PERIOD.

INDUCTANCE MICROHENRIES	MINIMUM Q AT FREQUENCY	APPROX RESONANT FREQ	MAX DC RES OHMS	MAX DC CURRENT MA
0.68 ±20%	35 AT 15 MC	220 MC	0.15	1470

A₂

9	AS REQD	---	SOLDER, SOFT		QQ-S-571	
8	AS REQD	---	LACQUER GOLD		TT-L-31	8
7	AS REQD	---	LACQUER GRAY		TT-L-31	8
6	AS REQD	---	LACQUER BLUE		TT-L-31	8
5	AS REQD	---	LACQUER BLACK		TT-L-31	8
4	AS REQD	---	VARNISH		MIL-V-173	7
3	AS REQD	---	POLYSTYRENE LACQUER			7
2	AS REQD	SM-C-249216-1	WIRE, MAGNET (12IN.TYP.)		MIL-W-583	5
1	1	SM-B-343641	FORM, COIL			

LIST OF MATERIAL

UNLESS OTHERWISE SPECIFIED		GOLLING RADIO CO. CLEAR-RAPID-TONE M24-PN-51-83		DEPARTMENT OF THE ARMY U. S. ARMY SIGNAL MATERIEL SUPPORT AGENCY	
DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± 1/64 ± .005 ± 1°		SIGNAL CORPS		FORT MONMOUTH NEW JERSEY	
DRAWN BY <i>DCW</i>		REVIEWED <i>PME</i>		CHOKER-RE	
DATE		APPROVED <i>HLV</i>		SM-C-249216	
CHECKED BY <i>B G</i>		DATE 31 DEC 56		SCALE 1 / 1	
APPROVED BY		DATE		CODE 80063	
APPLICATION		DATE		CODE 80063	

WHEN REFERRING TO THIS DRAWING STATE DRAWING NO., APPLICABLE ISSUE SYMBOL, IF ANY, AND DATE.