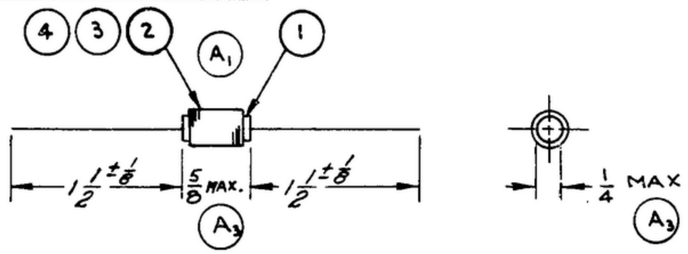
EQUIP. TYPE ~~R390/URR~~ EXP. NO.

~~Col. 240-0164-00~~

*FOR INFORMATION ONLY. CONTRACTOR MAY AT HIS OPTION DEVIATE FROM THESE PROCESS DETAILS.



INDUCTANCE MICROHENRIES	MINIMUM Q AT FREQUENCY	APPROX RESONANT FREQ	MAX. DC RES. OHMS	MAX DC CURRENT MA
10.00 ± 10%	30 @ 3.5 MC	30 MC	0.30	1300

B1

* SWE APPROVAL SYM	* SWE APPROVAL PR10042-17
B1	CA 84674

REVISIONS SYM	DESCRIPTION	DATE	APPROVAL
A9	A. CORRECTED VIEW OF CHOKE A2 ADDED COLOR CODE VIEW & LIST OF MATERIAL A3 5/8 MAX. WAS 19/32 ± 1/32 & 1/4 MAX. WAS 7/32 ± 1/32 A4 NUMBERED THE NOTES & REMOVED NAME & PART NO. OF COMMERCIAL SUPPLIER A5 REMOVED "DISTRIBUTED CAPACITY & COIL FORM NOTES" A6 NOTE 7 WAS "ENAMEL OR FORMVAR INSULATED COPPER MAGNET WIRE" A7 NOTE 8 WAS "SINGLE LAYER SOLENOID A8 NOTE 9 CHANGED NAME ETC, OF SUPPLIER & ADDED SPEC MIL-V-173 A9 "COLORED DOTS" ETC WERE "COLOR BANDS IN ACCORDANCE WITH SPEC MIL-C-15305	16 DEC 59	42428-PC 59-A1-51 REV'D PME
B1	B. APPROX RESONANT FREQ. WAS 45 MC	20 APRIL 60	42428-PC 59 REV'D PME

A4

NOTES

1. DESCRIPTION: RADIO FREQUENCY CHOKE IN ACCORDANCE WITH SPEC MIL-C-15305, GRADE 1, EXCEPT AS SPECIFIED HEREIN.
2. 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 REQUENCY
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 GIVEN IN TABLE; SHALL BE MEASURED ON A BOONTON MODEL 160A Q-METER, AS SUPPLIED BY BOONTON RADIO CORP., BOONTON, N.J., OR EQUAL.

3. CURRENT CAPACITY: BASED ON 1/2 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.
4. AMBIENT TEMPERATURE RANGE: -55°C TO +105°C, STORAGE TO -62°C. SEE CURRENT CAPACITY FOR DERATING.

A5

5. TERMINAL PULL MAGNITUDE: 5 POUNDS.
6. RESONANT FREQUENCY: RESONANT RREQUENCY SHALL BE AS INDICATED WHEN MEASURED ON A MEASUREMENTS CORPORATION MEGACYCLE METER TYPE 59. LEADS SHALL BE EXTENDED AXIALLY FOR THEIR FULL LENGTH.

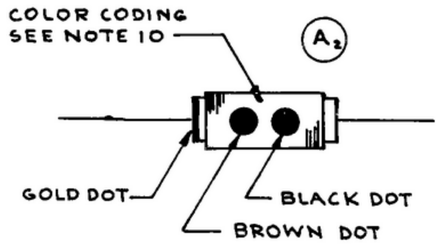
A6 7. WIRE: INSULATED COPPER MAGNET WIRE, # 28 GA PER SPEC. MIL-W-583 TYPE T2

8. WINDING DATA: 32 TURNS WIRE SOLENOID WOUND

A7 9. COATING: 1 COAT POLYWELD # 912 AS SUPPLIED BY AMPHENOL CO. CHICAGO, ILL 2 COATS OF VARNISH PER SPEC MIL-V-173 TYPE I, OR APPROVED EQUIVALENT COATINGS

A8 10. MARKINGS: INDUCTANCE VALUE IN MICROHENRIES SHALL BE INDICATED BY 2 COLORED DOTS (BROWN & BLACK) A9

11. DIELECTRIC STRENGTH TEST VOLTAGE: 500 V RMS.
12. INSULATION RESISTANCE MEASUREMENT: APPLICABLE.
13. MECHANICAL SHOCK TEST: 30 G'S PER SPEC MIL-C-15305, TEST 11.
14. FINAL ELECTRICAL MEASUREMENTS: APPLICABLE FOLLOWING 4 TO 24 HOUR CONDITIONING PERIOD.



* SWE PART NO.	ITEM	REQD	PART NO.	DESCRIPTION	MATL	MATL SPEC	NOTE
~~20S111266-12~~	8	AS REQD	——	LACQUER GOLD		TT-L-31	
20S111266-1	7	AS REQD	——	LACQUER BLACK		TT-L-31	10
20S111266-2	6	AS REQD	——	LACQUER BROWN		TT-L-31	10
10S130317-9	5	AS REQD	——	SOLDER SOFT SN60		QQ-S-571	
20S110664-1	4	AS REQD	——	VARNISH		MIL-V-173	9
20S110664-3	3	AS REQD	——	POLYSTYRENE LAC.			9
30S130130-28	2	1	SM-C-249218-1	WIRE (22 IN APPROX.)		MIL-W-583	7
	1	1	SM-B-343643	FORM COIL			

A2

LIST OF MATERIAL ~~COLLINS PART NO. 559-0155-003~~

~~COLLINS NO.~~	~~QTY~~	NEXT ASSY	USED ON
~~558-0452-005~~	1	SM-E-249101	SC-DL-248775

APPLICATION

DRAWN RC HILL | CHECKED | APPROVED

UNLESS OTHERWISE SPECIFIED:
DECIMAL DIMENSIONS INCLUDING HOLE SIZES MAY VARY ±.005
FRACTIONAL DIMENSIONS INCLUDING HOLE SIZES MAY VARY ±1/64
MACHINED ANGLES MAY VARY ±1°
SHEARED ANGLES MAY VARY ±.25°
BROKEN ANGLES MAY VARY ±1.°
ECCENTRICITY BETWEEN ANY DIAMETERS ON THE SAME CENTERLINE SHALL NOT EXCEED .010 TOTAL INDICATOR READING.
ALL DIMENSIONS ARE FINISH DIMENSIONS INCLUDING APPLIED FINISH AND ARE GIVEN IN INCHES.

~~COLLINS RADIO CO. CEDAR RAPIDS, IOWA~~
14214-PH-51-93

SIGNAL CORPS
REVIEWED PME
APPROVED HLY PME
DATE 28 MAR 56 SCALE 1/1

CHOKE-R.F.

DEPARTMENT OF THE ARMY
SIGNAL CORPS ENGINEERING LABORATORIES
FORT MONMOUTH NEW JERSEY

SM-C-249218

PD-794—074-2071-11—A4706—298507

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