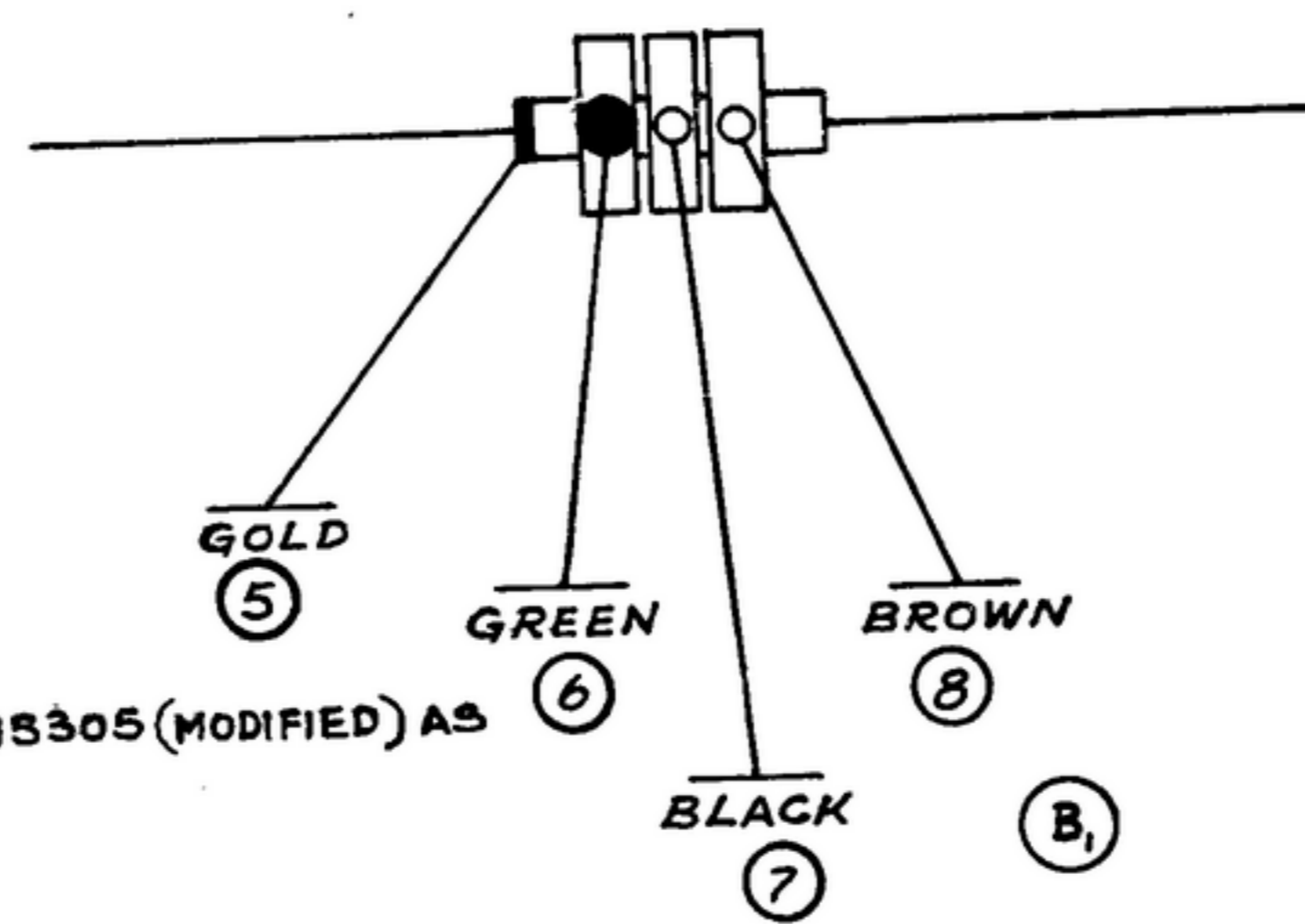
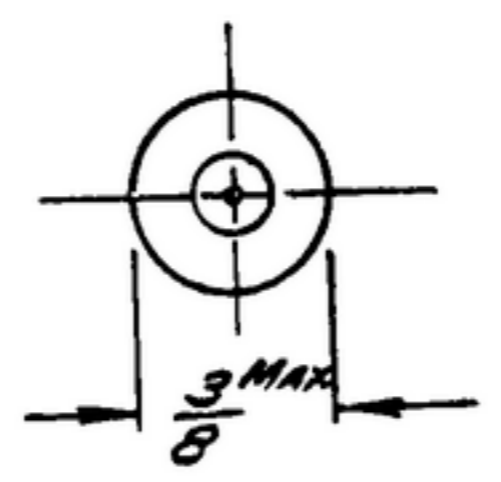
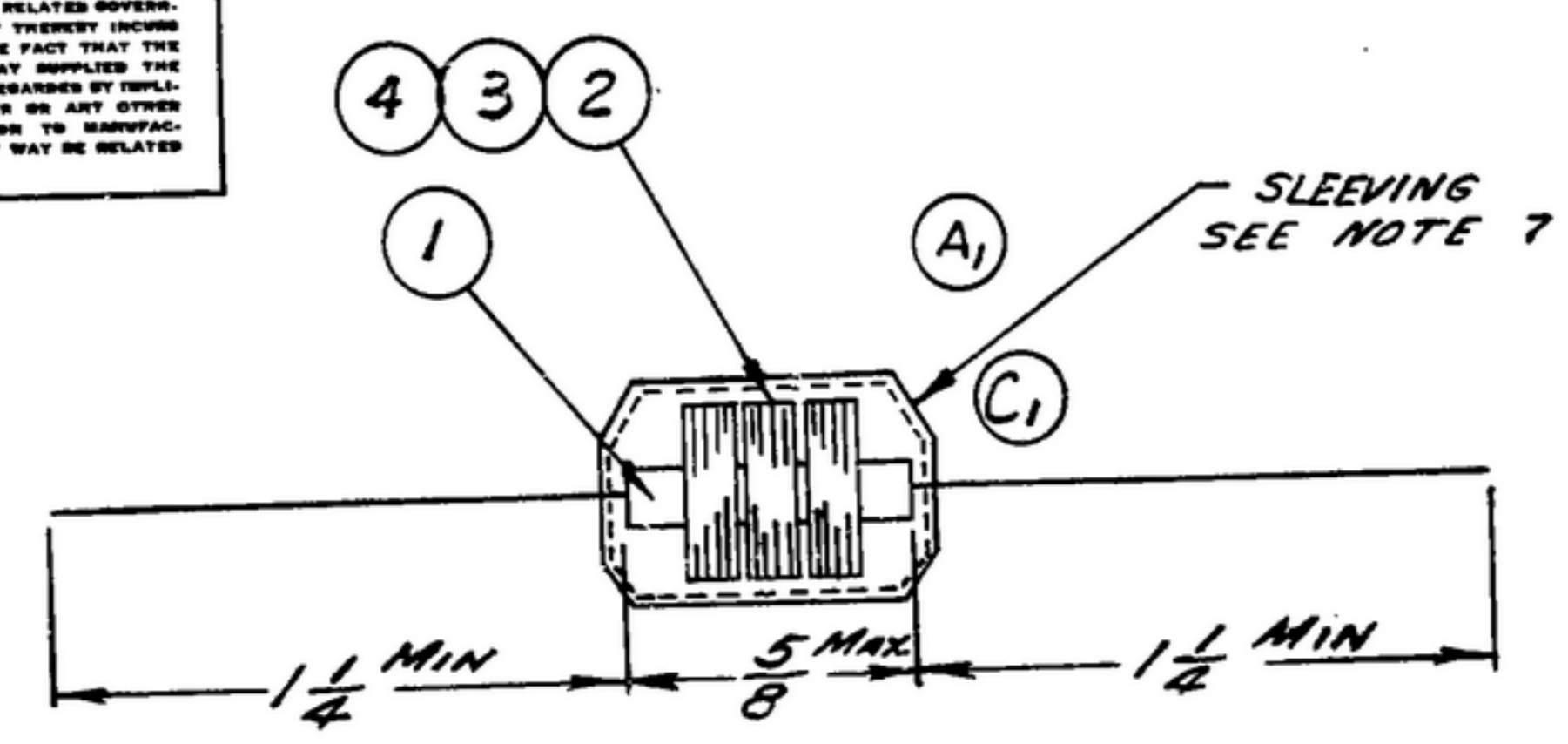


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NOTE:
*FOR INFORMATION ONLY, CONTRACTOR MAY AT HIS OPTION DEVIATE FROM THESE PROCESS DETAILS



*SWE APPROVAL
SYM PR 10042-17

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A ₁	CORRECTED VIEW OF CHORE.	16 DEC 59	42428-PC-59-A1-51
A ₂	ADDED COLOR CODE VIEW & LIST OF MATERIAL.		
A ₃	DELETED SUPPLIER NATIONAL COIL CO. REFERENCE NOTE; REFERRING TO MIL. COMM. EQUIP. RENUMBERED NOTES.		
A ₄	DELETED COIL RECOMMENDATION NOTE; A ₅ - ADDED SPEC. MIL-W-583 TO WIRE NOTE.		
A ₆	91 TURNS WAS 112 TURNS.		
A ₇	WAS FINISH REFERENCE OF MIL-P-14.		
A ₈	ADDED SPEC. MIL-C-15305 TO INDUCTANCE VALUE NOTE.		REV'D, PME
B	(1) ITEMIZED LACQUER ON VIEW	31 OCT 61	REV'D, PME
C ₄	C ₁ ADDED SHRINK SLEEVE, AND NOTE DESIGNATION; C ₂ ADDED "ADD PROTECTIVE SHRINK SLEEVE (CLEAR)"; C ₃ ADDED "ALTERNATE ---" C ₄ NOTE 7 READ "--- MIL-V-173 TYPE I, OR ---"	1 AUG 64	15283-PP63 REV'D, PME

1. - APPARENT INDUCTANCE: 500 MICROHENRIES ±10% AT 1000 KC.
2. - Q: 45 MIN. AT 1000 KC.
3. - WITH THE UNIT CLAMPED IN A GROUNDED V-BLOCK THE INSULATION RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS BETWEEN THE WINDING AND THE V-BLOCK WHEN MEASURED WITH A POTENTIAL OF 500 VOLTS DC.
4. - WITH THE UNIT CLAMPED IN A GROUNDED V-BLOCK THERE SHALL BE NO BREAKDOWN OF INSULATION WHEN A POTENTIAL OF 500 VOLTS RMS, 60 CPS, AC IS APPLIED BETWEEN THE WINDING AND THE V-BLOCK FOR A PERIOD OF ONE MINUTE.
5. - WIRE SHALL BE #36 AWG TYPE T.F. PER MIL-W-583.
6. - WINDING DATA, RECOMMENDED: THREE UNIVERSAL WOUND PI SECTIONS, 91 TURNS PER SECTION 3/32 INCH WIDE SPACED 1/32 INCH APART CENTERED ON FORM.
7. - FINISH: 1 COAT OF POLYWELD 912 AS SUPPLIED BY AMPHENOL CO. CHICAGO, ILL. OR EQUIVALENT COATINGS. ADD PROTECTIVE SHRINK SLEEVE (CLEAR) OR APPROVED EQUIVALENT COATINGS. ADD PROTECTIVE SHRINK SLEEVE (CLEAR).
8. - THE INDUCTANCE VALUE IN MICROHENRIES SHALL BE INDICATED BY A COLOR CODE SYSTEM PER MIL-C-15305 (MODIFIED) AS FOLLOWS: IN A LINE IN THE ORDER: GOLD, GREEN, BLACK, BROWN. THE GREEN DOT SHALL BE APPROXIMATELY TWICE AS LARGE AS THE OTHER TWO. ALTERNATE METHOD - VALUE STAMPED ON TAPE COVER.
9. - ASSEMBLY:
 - A. WINDING TERMINATIONS SHALL BE WOUND A MINIMUM OF THREE TURNS AROUND THE COIL FORM LEADS NEXT TO THE FORM AND SECURELY SOLDERED.
 - B. THE FINISH COATING SHALL POSSESS A SMOOTH SURFACE TO PROVIDE MAXIMUM MOISTURE RESISTANCE; EXCESSIVE PITTING OR EVIDENCE OF AIR BUBBLES IN THE COATING SHALL CONSTITUTE CAUSE FOR REJECTION.
 - C. THE CHOKE LEADS SHALL BE FREE OF MOISTURE RESISTING VARNISH TO WITHIN 1/8 INCH OF THE CHOKE BODY.
10. - AMBIENT TEMPERATURE RANGE: -55°C TO +105°C OPERATING, STORAGE TO -62°C.
11. - THE UNIT SHALL WITHSTAND EXPOSURE TO A 10 CYCLE HUMIDITY TEST CONDUCTED IN ACCORDANCE WITH THE LATEST VERSION OF MIL-STD-202, METHOD 106. A POLARIZING POTENTIAL OF 100 VOLTS DC SHALL BE APPLIED BETWEEN THE WINDING AND A GROUNDED V-BLOCK THROUGHOUT THE TEST. UPON COMPLETION OF THE TEST THE UNITS SHALL BE AIR DRIED AS SPECIFIED FOR A PERIOD OF 4 TO 24 HOURS. VALUES OF INDUCTANCE AND Q SHALL NOT HAVE CHANGED MORE THAN 10% AND 20% RESPECTIVELY FROM THEIR INITIAL VALUES. THE INSULATION RESISTANCE SHALL BE AS SPECIFIED. THE DIELECTRIC STRENGTH SHALL BE SATISFACTORY WHEN TESTED AT 90% OF THE SPECIFIED TEST VOLTAGE. MARKING SHALL BE LEGIBLE.
12. - THE UNIT SHALL WITHSTAND EXPOSURE TO 5 SUCCESSIVE TEMPERATURE CYCLES CONDUCTED IN ACCORDANCE WITH THE LATEST VERSION OF MIL-STD-202, METHOD 102, CONDITION A, FOLLOWED BY 2 SUCCESSIVE IMMERSION CYCLES CONDUCTED IN ACCORDANCE WITH THE LATEST VERSION OF MIL-STD-202, METHOD 104, CONDITION B. UPON COMPLETION OF THE TEST VALUES OF INDUCTANCE AND Q SHALL NOT HAVE CHANGED MORE THAN 10% FROM VALUES MEASURED AT THE BEGINNING OF THE TEST. THE INSULATION RESISTANCE SHALL BE AS SPECIFIED. THE DIELECTRIC STRENGTH SHALL BE SATISFACTORY WHEN TESTED AT 90% OF THE SPECIFIED TEST VOLTAGE.

QTY	AS REQ'D	DESCRIPTION	DATE	DATE SPEC
20S111266-2	8	LACQUER BROWN		TT-L-31
20S111266-1	7	LACQUER BLACK		TT-L-31
20S111266-6	6	LACQUER GREEN		TT-L-31
20S111266-12	5	LACQUER GOLD		TT-L-31
20S110664-1	4	VARNISH		MIL-V-173 7
20S110664-3	3	POLYSTYRENE LACQUER		7
30S130132-36	2	WIRE (225 IN. APPROX)		MIL-W-583 5
	1	SM-B-343642 FORM, COIL		

SM-D-249007	SC-DL-248775
SM-D-343629	SC-DL-248775
SM-D-343620	SC-DL-248775
SM-D-178701	
SM-B-178635	
SM-B-178638	
SM-D-178515	SC-DL-144500
SM-D-178503	SC-DL-178467
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES

AUTHENTICATION
DRAWN 21852-PH-50-93
TRACED PHOTO
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VERIFIED [Signature]
APPROVED [Signature]
REVIEWED [Signature]
DATE 23 MAY 56 SCALE 2/1

CHOKE

SIGNAL CORPS ENGINEERING LABORATORIES
PORT MONMOUTH NEW JERSEY
SM-C-178505

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