Cor. 240 049100 EQUIP. TYPE 1390 A VAR EXP. NO. \* SWE APPROVAT REVISIONS \*FOR INFORMATION ONLY, CONTRACTOR MAY AT HIS APPROYAL DATE SYM PR10042-17 DESCRIPTION COVERNMENT AND MAY DE REPRODUCED AND FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEPINITELY RELATED GOVERN. OPTION DEVIATE FROM THESE PROCESS DETAILS. WEST PROCURENCET OPERATION, THE UNITED STATES SCYCROSTRY THEREST INCURS MEED IN COMMECTION WITH ANY POVENHER. A, ADDED LIST OF MATERIALS 42428-PC AID GRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REBARDED BY INVLI-EVIEW COLOR CODE DEC. 59-A1-51 ATION OR OTHERWISE AS IN ART MANNER LICENSING THE HOLDER OR ART STHER PORATION, OR CORYCYING ANY SHORTS OR PERMISSION TO MANUFAC. A. NUMBERED THE NOTES & 59 REV'D REMOVED NAME & PART NO. ETC, OF COMMECIAL SUPPLIER PME A CORRECTED VIEW OF CHOKE AA DELETED "COIL FORM" NOTE AS NOTE 2 WAS # 36 AWG SSE OR SHE COPPER WIRE" AL ADDED WINDING DATA OF GEAS CAM & IDLER TO NOTE 3 AT COMMERCIAL FINISH WAS PER SPEC MIL-P-14 A. NOTE 5 WAS THREE DOTS IN IMIN. LINE PARALLEL TO LONGITUDINAL AXIS IN THE ORDER BRN.ORG. GOLD END INDICATES BROWN ORANGE BROWN BRN. END TO READ FROM DOT DOT A. DELETED \* SAMPLE APPROVAL \* PRODUCTION INSPECTION TESTING & PRODUCTION TYPE TESTING NOTES FROM LIST OF REQUIREMENTS  $(A_2)$ NOTES APPARENT INDUCTANCE: APPROXIMATELY 130 MICROHENRIES. UNIT SHALL RESONATE WITH 310 MICROMICROFARADS AT 790 KC ±10% WHEN MEASURED WITH A BOONTON MODEL 160A Q-METER, AS SUPPLIED BY BOONTON RADIO CORP., BOONTON, N.J., OR EQUAL. Q: 45 MINIMUM WHEN MEASURED AT THE RESONANT FREQUENCY OBTAINED UNDER "APPARENT INDUCTANCE". 2. WIRE; #36 AWG WIRE TYPE TF PER MIL-W-583 WINDING DATA, RECOMMENDED: 3 UNIVERSAL WOUND PI SECTIONS EVENLY SPACED AND CENTERED ON THE COIL FORM 47 TURNS PER PI GEARS = 73 DRIVER; DRIVEN (Ac) CAM = 062 IDLER = 1/1 FINISH; I COAT OF POLYWELD DIZ AS SUPPLIED BY AMPHENOL CO. CHICAGO,ILL 2 COAT OF VARNISH PER SPEC MIL-V-173 TYPE I OR APPROVED EQUIVALENT COATINGS (A<sub>7</sub>)(A<sub>8</sub>) 5. MARKING: FOUR DOTS GOLD, BROWN, ORANGE, BROWN 6. ASSEMBLY: WINDING TERMINATIONS SHALL BE WOUND A MINEMUM OF THREE TURNS AROUND THE COIL FORM LEADS NEXT TO THE FORM AND SECURELY SOLDERED. 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. THE CHOKE LEADS SHALL BE FREE OF MOISTURE RESISTING VARNISH TO WITHIN 1/8 INCH OF THE CHOKE BODY. 7. SERVICE CONDITIONS: AMBIENT TEMPERATURE RANGE: -55°C TO +105°C OPERATING, TO -62°C STORAGE 9 MOISTURE RESISTANCE: THE UNIT SHALL WITHSTAND EXPOSURE TO A 10 CYCLE HUMIDITY TEST CONDUCTED IN ACCORDANCE WITH MIL-STD-202, METHOD 106. UPON COMPLETION OF THE TEST THE UNITS SHALL BE AIR DRIED AS SPECIFIED FOR A PERIOD OF 4 TO 24 HOURS. VALUES OF INDUCTANCE SHALL NOT HAVE CHANGED MORE THAN 10% AND VALUES OF Q SHALL NOT HAVE CHANGED MORE THAN 30% FROM VALUES MEASURED AT THE BEGINNING OF THE TEST. 10. TEMPERATURE AND IMMERSION CYCLING: THE UNIT SHALL WITHSTAND EXPOSURE TO 5 SUCCESSIVE TEMPERATURE CYCLES CONDUCTED IN ACCORDANCE WITH MIL-STD-202, METHOD 102, CONDITION A, FOLLOWED BY 2 SUCCESSIVE IMMERSION CYCLES CONDUCTED IN ACCORDANCE WITH MIL-STD-2C2, METHOD 104, CONDITION B. UPON COMPLETION OF THE TEST, VALUES OF INDUCTANCE SHALL NOT HAVE CHANGED MORE THAN 10% AND VALUES OF Q SHALL NOT HAVE CHANGED MORE THAN 30% FROM VALUES MEASURED AT THE BEGINNING OF THE TEST. ( A, QQ-5-571 SOLDER SOFT SNGO 105130317-7 TT-L-31 GOLD LACQUER 205111266-12 5 TF-L-31 ORANGE LACQUER 203111266/4 BROWN LACQUER 5 TT-L-31 MIL-V-173 205110264-1 VARNISH POLYSTYRENE LACQUER 2051/0 464-3 MIL-W-583 WIRE MAGNET (BT IN APPROL) SM-C-249220-1 305/30131-36 FORM, COIL SM-B-343642 MATL SPEC  $(A_1)$ HOTE ASWE PART NO !TEN REOD! DESCRIPTION MATL PART NO. LIST OF MATERIAL APPROVED CHECKED DRAWN CECUR GARDON LOWA **G** G 228 DEPARTMENT OF THE ARMY 14214 -PH SIGNAL CORPS ENGINEERING 51 - 93 UNLESS OTHERWISE SPECIFIED: LABORATORIES DECIMAL DIMENSIONS INCLUDING HOLE SIZES MAY YARY \$.005 SIGNAL CORPS CHOKE -R.F. FRACTIONAL DIMENSIONS INCLUDING HOLE SIZES MAY VARY ±1/64 PME FORT MONMOUTH NEW JERSEY MACHINED ANGLES MAY VARY # 1" SHEARED ANGLES MAY VARY =.25" 558 0351:002 - 5M-8-249001 SC-DL-248725 HLY APPROVED BROKEN ANGLES MAY YARY #1." ECCENTRICITY BETWEEN ANY DIAMETERS ON THE SAME CENTERLINE SHALL NOT EXCEED .010 TOTAL INDICATOR READING. PME NEXT ASSY USED ON 5M-C-249220 ALL DIMENSIONS ARE FINISH DIMENSIONS INCLUDING APPLIED

APPLICATION

SCALE Z//

DATE 2 FEB 56