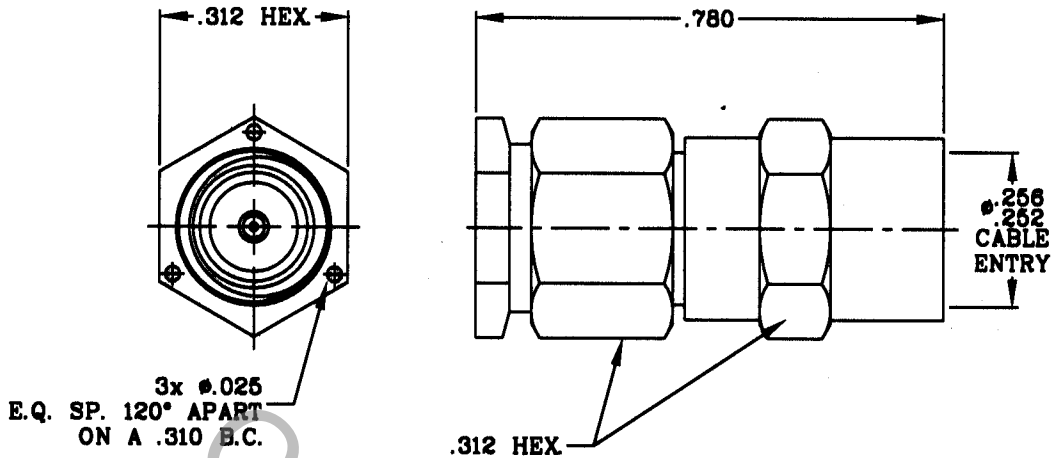


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR SMA PLUG per MIL-STD-348A (Fig. 310-1) AND DYNAWAVE SPECIFICATION MD-98.

2. ELECTRICAL

| | |
|---------------------------------------------|---------------------------------|
| FREQUENCY RANGE GHz | DC TO 18.0 GHz. |
| VSWR (MAX.) * | 1.05 + .010 x FGHz. |
| INSERTION LOSS (dB MAX.) | .03 dB x $\sqrt{\text{FGHz}}$. |
| NOMINAL IMPEDANCE (OHMS) | 50 |
| VOLTAGE RATING (MAX. VRMS) | 250 |
| RF LEAKAGE (MIN. dB DOWN) | 100 dB - FGHz. |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | -65°c TO + 165°c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | 750 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | 5,000 |
| CONTACT RESISTANCE | |
| • CENTER CONTACT (MAX. MILLIOHMS) | 3.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | 2.0 |

* TERMINATED IN A 50 OHM LOAD

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | | INCORPORATED HAVERHILL, MA. 01836 |
|------|---------|---------|------|---------------------------------------------------|----------------------|----------------------------------------------------------------------------|------------------------------------------|
| AA | 03-1819 | 6-25-03 | B.C. | DECIMALS X ± .030 .XX ± .010 .XXX ± .008 | FRACTIONAL ± 1/64 | ANGULAR X° ± 1' 0" X° X' ± 15" | |
| | | | | DRAWN G.E. | DATE 6/24/03 | TITLE SMA, PLUG, STRAIGHT SOLDER ATTCHMENT .250 SEMI-RIGID | |
| | | | | APPROVED B.C. | DATE 6-25-03 | | |
| | | | | CODE IDENT. 2J899 | SHEET 1 OF 2 | DWG. NO. 9800-2525-6200 | |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX. AXIAL FORCE _____ 4.5 LBS.
MAX. RADIAL TORQUE _____ N/A
CENTER CONTACT AXIAL FORCES
● INSERTION (MAX. OUNCES) _____ N/A
● WITHDRAWAL (MIN. OUNCES) _____ N/A
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) — 2.0
CONNECTOR DURABILITY (MIN. CYCLES) _____ 500
RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65 °C TO + 200 °F)
SHOCK _____ MIL-STD-202, METHOD 213, COND. I (100 G's)
VIBRATION _____ MIL-STD-202, METHOD 204, COND. D (20 G's)
MOISTURE RESISTANCE _____ MIL-STD-202, METHOD 106, LESS STEP 7b
CORROSION _____ MIL-STD-202, METHOD 101, COND. B (48 HOURS)
BAROMETRIC PRESSURE (ALTITUDE) _____ MIL-STD-202, METHOD 105, COND. C (70,000 FT.) (375 VRMS)

5. MATERIAL

BODY AND COUPLING NUT _____ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.
CONTACT AND RETAINING RING _____ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY
No. UNS C17300, TEMPER TD04.
GASKET _____ SILICONE RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50 OR 60.
INSULATOR _____ TEFLON PER ASTM D 4894-91.

6. FINISH

CONNECTOR BODY _____ GOLD PER MIL-G-45204, TYPE I, GRADE C, CLASS 1
(.000050 MINIMUM THICKNESS) OVER NICKEL PER QQ-N-290,
CLASS 1 (.000150 MINIMUM THICKNESS) OVER COPPER PER
MIL-C-14550 (.000010 MINIMUM THICKNESS).
COUPLING NUT _____ PASSIVATE PER QQ-P-36A, TYPE I.
CONTACT _____ GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 2.5
(.000100 MIN. THK.) OVER NICKEL PER QQ-N-290
(.000050 MIN. THK.) OVER COPPER PER MIL-C-14550
(.000010 MIN. THK.).
INSULATOR, GASKET & RETAINING RING _____ N/A