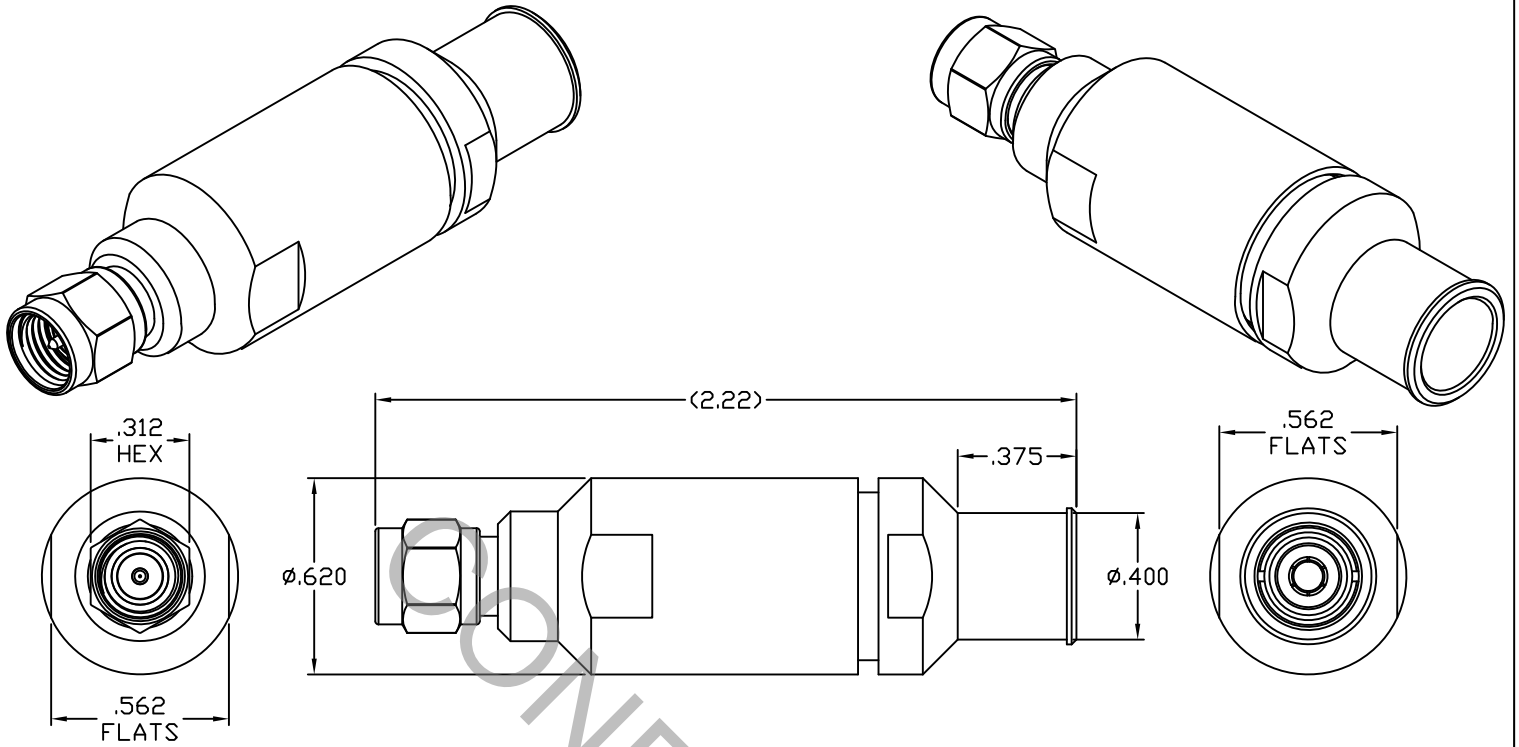


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.1 (SMA PLUG).

2. ELECTRICAL

| | | |
|---|-------|--------------------|
| FREQUENCY RANGE GHz | _____ | DC TO 18.0 GHz |
| VSWR (MAX) * | _____ | 1.05 + .005 x FGHz |
| INSERTION LOSS (dB MAX) * | _____ | .05 dB x √FGHz |
| NOMINAL IMPEDANCE (OHMS) | _____ | 50 |
| VOLTAGE RATING (MAX. VRMS) | _____ | 333 |
| RF LEAKAGE (MIN. dB DOWN) | _____ | -100 dB - FGHz |
| TEMPERATURE RATING (DEGREES CENTIGRADE) | _____ | -65°c TO + 165°c |
| DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS) | _____ | 1,000 |
| INSULATION RESISTANCE (MIN. MEGOHMS) | _____ | 5,000 |
| CONTACT RESISTANCE | | |
| • CENTER CONTACT (MAX. MILLIOHMS) | _____ | 6.0 |
| • OUTER CONTACT (MAX. MILLIOHMS) | _____ | 2.0 |

* TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

| REV. | DCN NO. | DATE | APP. | DIMENSIONS ARE IN INCHES TOLERANCES | | |  Haverhill, MA 01835 |
|------|---------|----------|------|--|--------------|--------------|--|
| | | | | DECIMALS | FRACTIONAL | ANGULAR | |
| AA | 12-1244 | 3/27/12 | DC | .X ± .030 | | X ° ± 1° 0' | TITLE SMA PLUG, SOLDER CLAMP, PLUG-IN CONTACT, DF218 LOW LOSS |
| AB | 12-2182 | 11/28/12 | DC | .XX ± .010 | ± 1/64 | X ° X' ± 15' | |
| | | | | DRAWN | DC | DATE | 3/27/12 |
| | | | | APPROVED | DC | DATE | 3/27/12 |
| | | | | CODE IDENT. | SHEET 1 OF 2 | | DWG. NO. |
| | | | | 6DZL5 | | | 9800-218P-6240 |

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX AXIAL FORCE _____ 6.0 LBS.

MAX RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

● INSERTION (MAX. OUNCES) _____ N/A

● WITHDRAWAL (MIN. OUNCES) _____ N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) _____ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 107, COND. C (-65° c TO + 165° c)

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.) (250 VRMS)

5. MATERIAL

BODY, BUSHING, COUPLING NUT & CLAMP NUT _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
CONTACTS & RETAINING RING _____ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER
ALLOY No. UNS-C17300, TEMPER TD04.

INTERFACE INSULATOR _____ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.

GASKET _____ SILICONE RUBBER PER ZZ-R-765.

SUPPORT INSULATOR _____ PLASTIC COMPOSITE

SOLDER SLEEVE _____ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.

6. FINISH

BODY, BUSHING, COUPLING NUT & CLAMP NUT _____ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.

SOLDER SLEEVE _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25
(.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290
CLASS 1 (.000150 MIN. THK.) OVER NICKEL (WOODS OR WATTS)
(.000010 MIN. THK.)

CONTACTS _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 0.75
(.000030 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290
CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS-2418
(.000010 MIN. THK.)

INSULATORS, RETAINING RING & GASKET _____ N/A