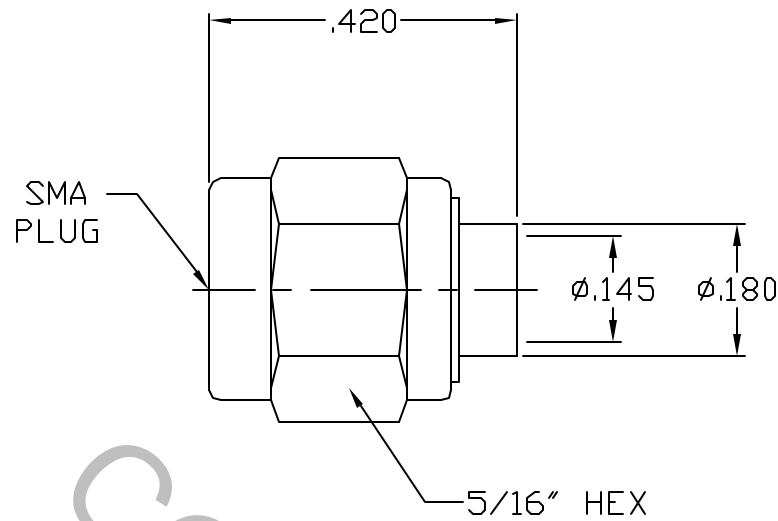


SPECIFICATION CONTROL DRAWING




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

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 GHz.
VSWR (MAX.) * _____		1.06 + .006 x FGHz.
INSERTION LOSS (dB MAX.) * _____		.035 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) _____		10,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS) _____		6.0
• OUTER CONTACT (MAX. MILLIOHMS) _____		2.0

*TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835
AA	07-1416			DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ±1/64	ANGULAR X ° ± 1' 0" X ° X' ± 15'	
				DRAWN TS	DATE 4/19/07		TITLE SMA PLUG, DIRECT SOLDER TO .141 SEMI-RIGID CABLE (CAPTURED CENTER CONTACT)
				APPROVED DC	DATE 4/19/07		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 9800-4121-6200	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT
MAX. AXIAL FORCE _____ 4.0 LBS.
MAX. RADIAL TORQUE _____ N/A
CENTER CONTACT AXIAL FORCES
• INSERTION (MAX. OUNCES) _____ 32.0
• WITHDRAWAL (MIN. OUNCES) _____ 1.0
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 102, 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.) (190 VRMS)

5. MATERIAL

BODY & COUPLING NUT _____ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A
CONTACT & RETAINING RING _____ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS C 17800, TEMPER TD04
INSULATOR _____ TEFLON PER ASTM D1710-02, TYPE 1, GRADE 1, CLASS B.
GASKET _____ SILICONE RUBBER PER ZZ-R-765

6. FINISH

BODY _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25
(.000050 Min. Thk.) OVER NICKEL PER QQ-N-290
(.000150 Min. Thk.) OVER COPPER PER MIL-C-14550
(.000010 Min. Thk.).
COUPLING NUT _____ PASSIVATE PER AMS QQ-F-35, TYPE 2.
CONTACT _____ GOLD PER ASTM B 488, TYPE I, CODE C, CLASS 2.6
(.000100 Min. Thk.) OVER NICKEL PER QQ-N-290
(.000050 Min. Thk.) OVER COPPER PER MIL-C-14550
(.000010 Min. Thk.).
INSULATOR, RETAINING RING & GASKET _____ N/A