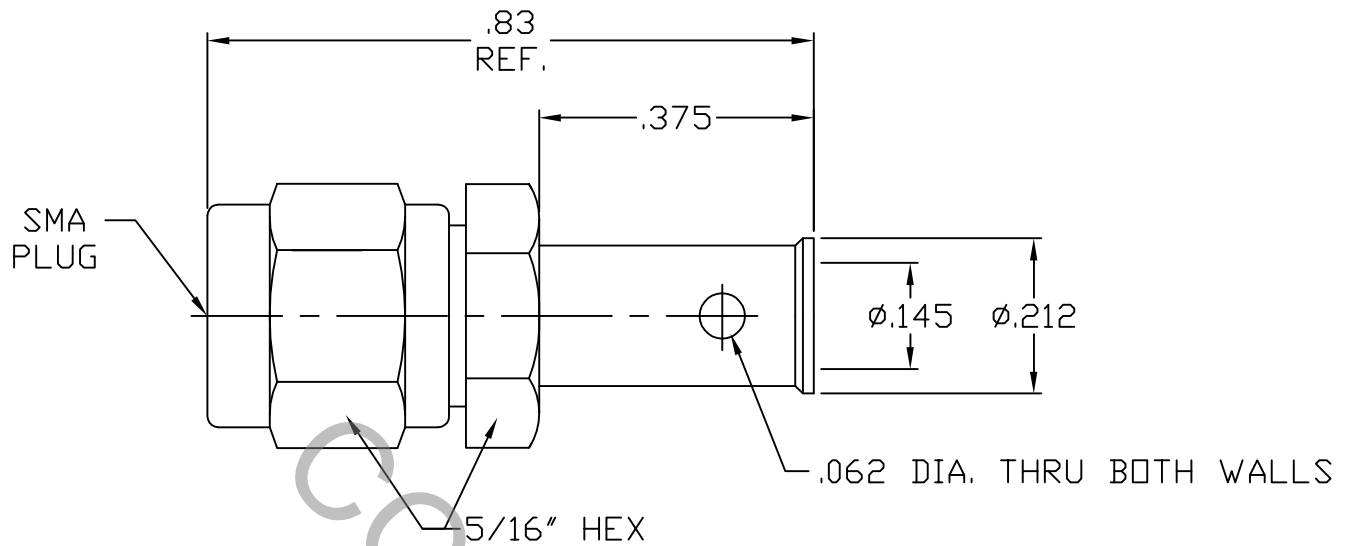


SPECIFICATION CONTROL DRAWING




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 √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

T-FLEX IS A REGISTERED TRADEMARK OF TIMES MICROWAVE.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERRILL, MA. 01835
AA	07-2100	11/9/07	DC	DECIMALS .X ±.030 .XX ±.010 .XXX ±.005	FRACTIONAL ±1/64	ANGULAR X ° ±1° 0' X ° X' ±15'	
				DRAWN	TS	DATE	4/19/07
				APPROVED	DC	DATE	4/19/07
				CODE IDENT.			SHEET 1 OF 2
				2J899			
				DWG. NO.			9800-9141-3200

TITLE
SMA PLUG,
DIRECT SOLDER
TO .141 T-FLEX CABLE
(CAPTURED CENTER CONTACT)

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
SHRINK TUBING _____ MIL-DTL-23053/4-104-0

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-P-35, TYPE 2.
CONTACT _____ GOLD PER ASTM 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, RETAINING RING, GASKET & SHRINK TUBING _____ N/A