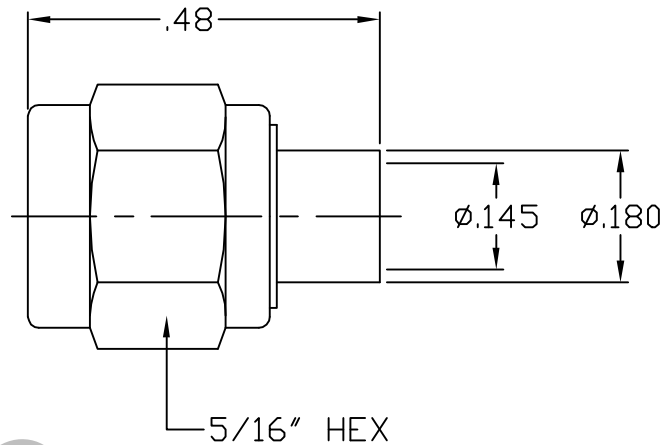


# SPECIFICATION CONTROL DRAWING



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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			HAVERHILL, MA. 01835
AA	05-2304	12/6/05	DC	DECIMALS .X ±.030 .XX ±.010 .XXX ±.005	FRACTIONAL ±1/64	ANGULAR X ° ±1'0" X ° X' ±15'	
				DRAWN DC	DATE 12/6/05	TITLE SMA PLUG, DIRECT SOLDER, CAPTIVE CONTACT, ϕ.141 SEMI-RIGID	
				APPROVED DC	DATE 12/6/05		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO.	9800-4121-6403

# 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 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 B 196, COPPER ALLOY  
UNS C 17800, TEMPER TD04

INSULATOR \_\_\_\_\_ TEFLON PER ASTM D 4894-91

GASKET \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765

## 6. FINISH

BODY & COUPLING NUT \_\_\_\_\_ 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.).

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 \_\_\_\_\_ N/A