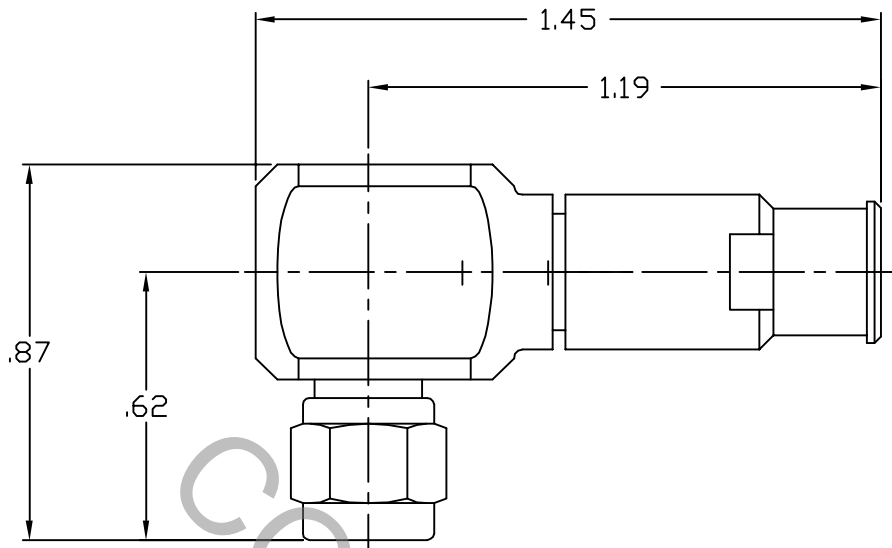


# SPECIFICATION CONTROL DRAWING



**1. MATING**      INTERFACE DIMENSIONS FOR SMA, PLUG per MIL-STD-348A Fig 310.1.

**2. ELECTRICAL**

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz
VSWR (MAX.) *	_____	$1.06 + .005 \times \sqrt{\text{FGHz}}$
INSERTION LOSS (dB MAX.)	_____	$.045 \text{ dB} \times \sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	250
RF LEAKAGE (MIN. dB DOWN)	_____	-100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-55° c TO + 120° 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			 <small>INCORPORATED</small> HAVERHILL, MA. 01835
AA	08-1508	5/8/08	DC	DECIMALS	FRACTIONAL	ANGULAR	
				.X + .030		X° ± 1°0'	
				.XX + .010	± 1/64	X°X' ± 15'	
				.XXX ± .005			
				DRAWN: DC	DATE: 5/8/08	<b>TITLE</b> SMA, PLUG, R/A SOLDER CLAMP ATTACHMENT FOR HF190	
				APP.: DC	DATE: 5/8/08		
				CODE IDENT.	SHEET 1 OF 2	DWG. NO. <b>9801-HF19-6200</b>	
				2J899			

# 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) \_\_\_\_\_ INTERFACE 48.0  
● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ INTERFACE 2.0

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 ( -55° c TO + 120° 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

CONNECTOR BODY & C/NUT \_\_\_\_\_ STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A

CONTACT & RETAINING RING \_\_\_\_\_ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.

INSULATOR \_\_\_\_\_ TEFLON

GASKET \_\_\_\_\_ SILICONE

## 6. FINISH

C/NUT & BODY \_\_\_\_\_ PASSIVATE PER QQ-P-35A, TYPE I

CONTACT \_\_\_\_\_ GOLD per MIL-G-45204, TYPE II, GRADE C, CLASS 2  
(.000100 Minimum Thickness) OVER NICKEL per  
QQ-N-290, CLASS 1 (.000100 Minimum Thickness) OVER  
COPPER per MIL-C-14550 (.000010 Minimum Thickness).

INSULATOR & GASKET \_\_\_\_\_ N/A