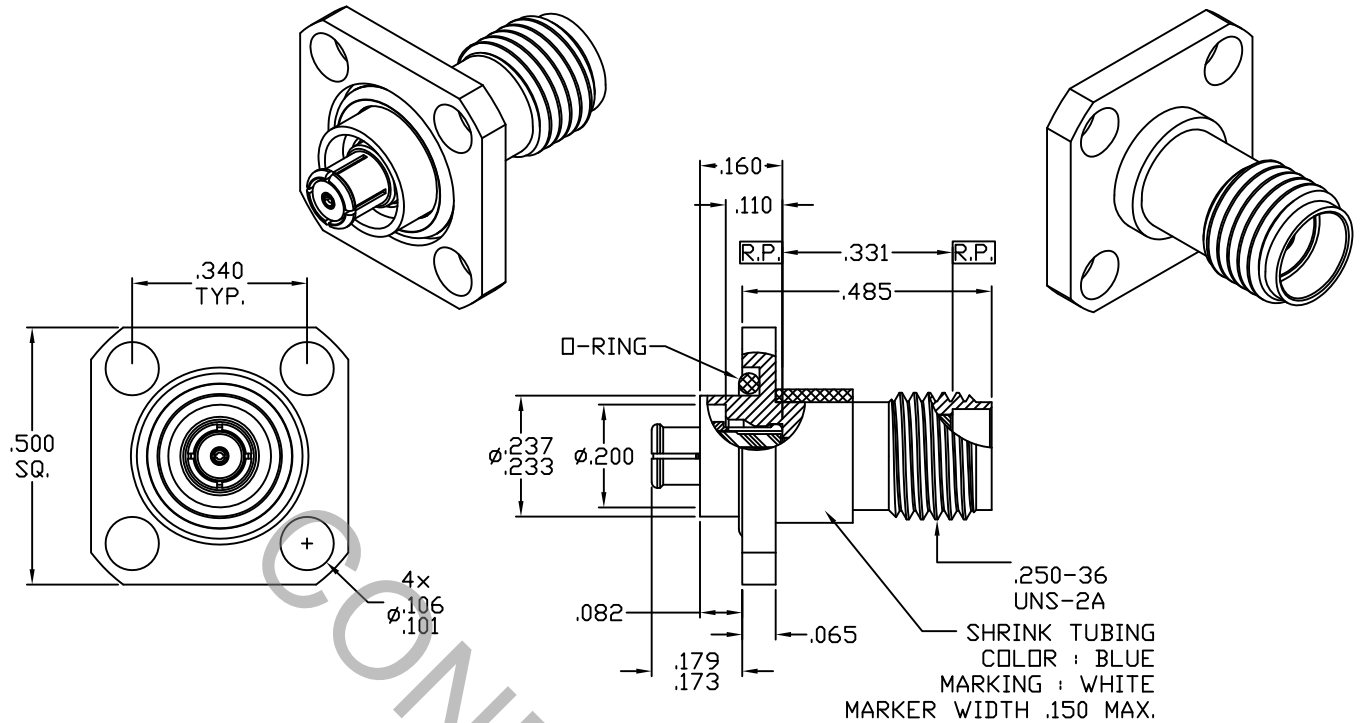


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 326.2 (SMP MALE) FULL DETENT, Fig. 326.1 (SMP FEMALE) AND Fig. 310.2 (SMA JACK).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 26.5 GHz
VSWR (MAX.) *	_____	1.10 + .015 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.10 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	250
RF LEAKAGE (MIN. dB DOWN)	_____	-65 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	750
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
AA	09-1278	3/31/09	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1°0' X ° X' ± 15'	
AB	09-1313	4/9/09	DC				
AC	09-1461	6/3/09	DC	DRAWN DC	DATE 3/31/09	TITLE SMP FEMALE TO SMA JACK, 4 HOLE FLANGE ADAPTER	
AD	09-1719	9/18/09	TS				
BA	10-1793	8/30/10	TS	APPROVED DC	DATE 3/31/09		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 1154-2099-6701	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION-CENTER CONTACT  
 MAX AXIAL FORCE \_\_\_\_\_ 4.5 LBS.  
 MAX RADIAL TORQUE \_\_\_\_\_ N/A  
 CENTER CONTACT AXIAL FORCES  
 ● INSERTION (MAX OUNCES) \_\_\_\_\_ INTERFACES 32.0  
 ● WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ SMP INTERFACE 1.0, SMA 2.0  
 CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) \_\_\_\_\_ 2.0 SMA  
 CONNECTOR DURABILITY (MIN. CYCLES) \_\_\_\_\_ SMA 500, SMP 100  
 RECOMMENDED MATING TORQUE \_\_\_\_\_ SMA 7 - 10 IN. LBS.

## 4. ENVIRONMENTAL

THERMAL SHOCK \_\_\_\_\_ MIL-STD-202, METHOD 107, COND. B ( -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

SMA BODY \_\_\_\_\_ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A  
 SMP BODY & CONTACTS \_\_\_\_\_ BERYLLIUM COPPER PER ASTM-B-196-90, COPPER ALLOY  
 No. UNS-C17300, TEMPER TD04.  
 INSULATORS \_\_\_\_\_ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.  
 O-RING \_\_\_\_\_ SILICONE RUBBER PER ZZ-R-765.  
 COLOR BAND \_\_\_\_\_ MIL-DTL-23053/5 CLASS 1.

## 6. FINISH

SMA BODY \_\_\_\_\_ NICKEL PER SAE-AMS-QQ-N-290, CLASS 1  
 (.000200 MIN. THK.) OVER NICKEL, WOODS OR WATTS  
 (.000010 MIN. THK.)  
 SMP BODY \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25  
 (.000050 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290  
 (.000150 MIN. THK.) OVER COPPER PER AMS-2418  
 (.000010 MIN. THK.)  
 CONTACTS \_\_\_\_\_ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 2.5  
 (.000100 MIN. THK.) OVER NICKEL PER SAE-AMS-QQ-N-290  
 (.000050 MIN. THK.) OVER COPPER PER AMS-2418  
 (.000010 MIN. THK.)  
 INSULATORS & O-RING \_\_\_\_\_ N/A