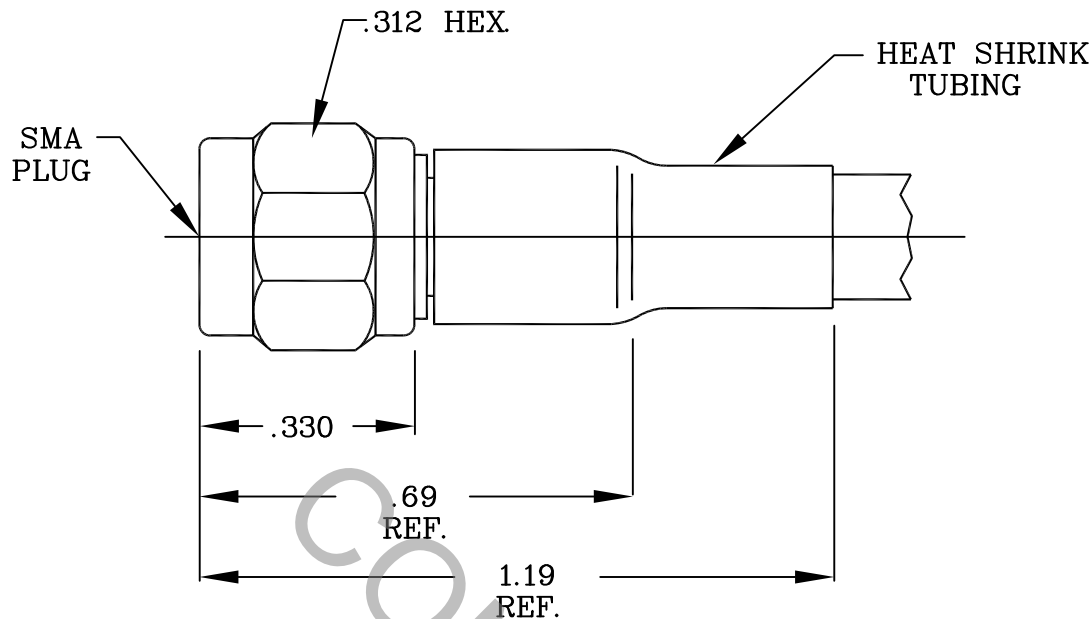


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR PLUG PER MIL-STD-348 (Fig. 310-1)


2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 12.4 GHz.
VSWR (MAX) *	_____	1.15 + .02 x FGHz.
INSERTION LOSS (dB MAX) *	_____	.05 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)	_____	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

* TERMINATED IN A 50 OHM LOAD

This Document contains proprietary and confidential information.

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01835
				DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ±/64	ANGULAR X° ± 1' 0" X° X' ± 15"	
-	1005	8/93	T.S.				
AA	14-2600	12/22/14	T.S.				
				DRAWN	T.S.	DATE	8/93
				APPROVED	DGG	DATE	8/93
				CODE IDENT.			
				2J899	SHEET	1 OF	2
						DWG. NO.	9800-1620-6440
						TITLE SMA, PLUG STRAIGHT, SOLDER ATTACHMENT FOR (RG 174/U, 188, 316)	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 6.0 LBS.
- MIN. RADIAL TORQUE _____ 4.0 IN.OZ.

CENTER CONTACT AXIAL FORCES

- INSERTION (MAX. OUNCES) _____ N/A
- WITHDRAWAL (MIN. OUNCES) _____ N/A

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) _____ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) _____ 1,000

RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS.

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 102, COND. C (-65 ° c TO + 200 ° 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.) (375 VRMS)

5. MATERIAL

BODY AND COUPLING NUT _____ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A.

CENTER CONTACT AND RETAINING RING _____ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS C17300, TEMPER TD04.

INSULATOR _____ TEFLON PER D-1710-02. TYPE 1, GRADE 1, CLASS 4.

SOLDER SLEEVE _____ BRASS PER ASTM B16, TEMPER H02, ALLOY C36000

GASKET _____ SILICONE RUBBER PER ZZ-R-765 CLASS IIB, GRADE 50 OR 60.

HEAT SHRINK TUBING _____ RNF-100, TYPE 1, PER MIL-I-23053/5, CLASS 1

6. FINISH

BODY AND COUPLING NUT _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 0.75 (.000025 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1, (.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN.THK.)

CENTER CONTACT _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1, (.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN.THK.)

SOLDER SLEEVE _____ NICKEL PER SAE AMS QQ-N-290, CLASS 1, (.000025 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN.THK.)

INSULATOR, RETAINING RING, GASKET _____ N/A
AND HEAT SHRINK TUBING