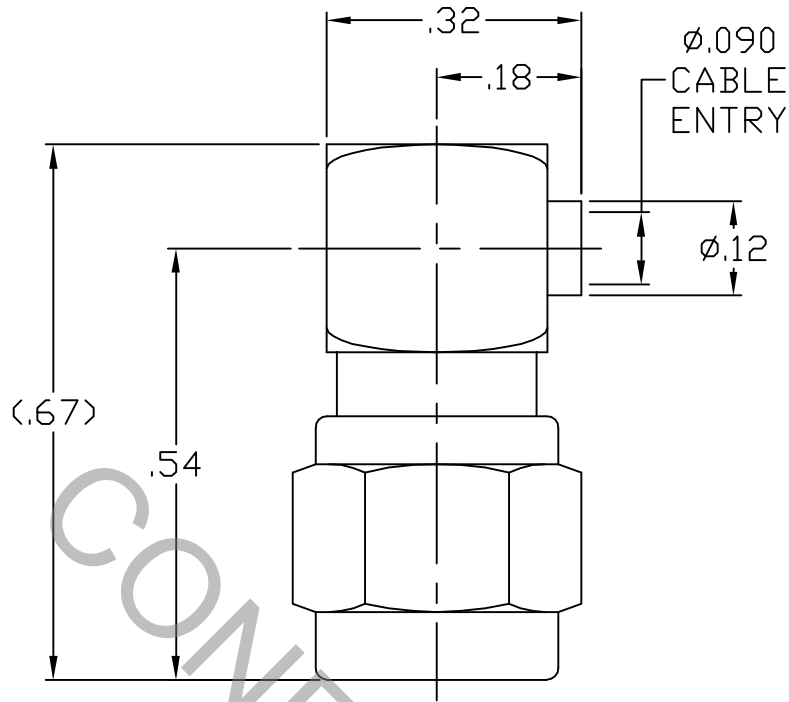


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 310.1 (SMA PLUG).

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 12.4 GHz
VSWR (MAX) *	1.15 + .015 x FGHz
INSERTION LOSS (dB MAX) *	.05 dB x √FGHz
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	333
RF LEAKAGE (MIN. dB DOWN)	-100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,000
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	04-1971	8/18/04	DC	DECIMALS	FRACTIONAL	ANGULAR	
AB	07-1966	9/27/07	DC	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1'0" X ° X' ± 15'	
				DRAWN DC	DATE 8/18/04	TITLE	
				APPROVED DC	DATE 8/18/04	SMA PLUG RIGHT ANGLE DIRECT SOLDER TO Ø.085 SEMI-RIGID CABLE	
				CODE IDENT.	SHEET 1 OF 2	DWG. NO.	
				2J899		9801-8521-2401	

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) _____ INTERFACE 32.0
● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX LBS.) _____ 2.0
CONNECTOR DURABILITY (MIN. CYCLES) _____ 250
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.) (250 VRMS)

5. MATERIAL

BODY, CONTACT, COUPLING NUT & CAP _____ BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.
RETAINING RING _____ BERYLLIUM COPPER PER ASTM-B-196-90, COPPER ALLOY
No. UNS-C17300, TEMPER TD04.
INSULATORS _____ TEFLON PER ASTM-D-1710-02, TYPE 2, GRADE 1, CLASS A.
GASKET _____ SILICONE RUBBER PER ZZ-R-765.

6. FINISH

BODY, COUPLING NUT & CAP _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS .08
(.000003 MIN. THK.) OVER NICKEL per QQ-N-290
(.000030 MIN. THK.) OVER COPPER per MIL-C-14550
(.000010 MIN. THK.)
CONTACT _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS .75
(.000030 MIN. THK.) OVER NICKEL per QQ-N-290
(.000030 MIN. THK.) OVER COPPER per MIL-C-14550
(.000010 MIN. THK.)
INSULATORS, GASKET & RETAINING RING _____ N/A