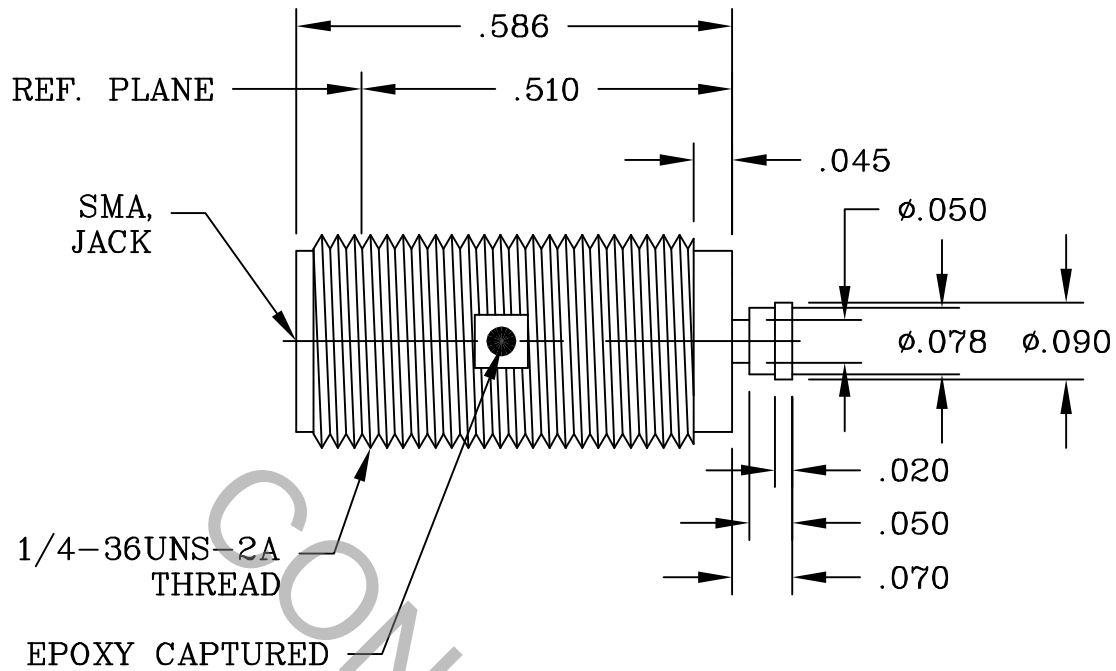


SPECIFICATION CONTROL DRAWING




1. MATING INTERFACE DIMENSIONS FOR SMA, JACK per MIL-STD-348A (Fig. 310-2)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 18.0 GHz.
VSWR (MAX.) *	1.08 + .008 FGHZ.
INSERTION LOSS (dB MAX.) *	.06 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	335
RF LEAKAGE (MIN. dB DOWN)	90 dB - FGHZ.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO +150° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,000
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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 GEORGETOWN MA. 01833
AA	04-1767	6/17/04	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ±/64	ANGULAR X° ± 1'0" X° X' ± 15"	
				SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$.			TITLE SMA, JACK SCREW-IN ϕ .090 NAILHEAD
				DRAWN DC	DATE 6/17/04		
				APPROVED DC	DATE 6/17/04		DWG. NO. 9930-0032-6201
				CODE IDENT. 2J899	SHEET 1 OF 2		

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT
MAX.AXIAL FORCE _____ 10.0 LBS.
MAX. RADIAL TORQUE _____ 4.0 IN. OZ.
CENTER CONTACT AXIAL FORCES
● INSERTION (MAX. OUNCES) _____ 48.0
● WITHDRAWAL (MIN. OUNCES) _____ 2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.) — 2.0
CONNECTOR DURABILITY (MIN. CYCLES) _____ 500
RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS.
RECOMMENDED CONNECTOR INSTALLATION TORQUE _____ 20 - 23 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 _____ STAINLESS STEEL PER ASTM A 581, TYPE 303, COND. A
CONTACT _____ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY
No. UNS-C17300, TEMPER TD04.
INSULATOR _____ TEFLON PER D 1457.
BEAD RING _____ ULTEM 1000 PER MIL-P-46184

6. FINISH

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 & BEAD RING _____ N/A