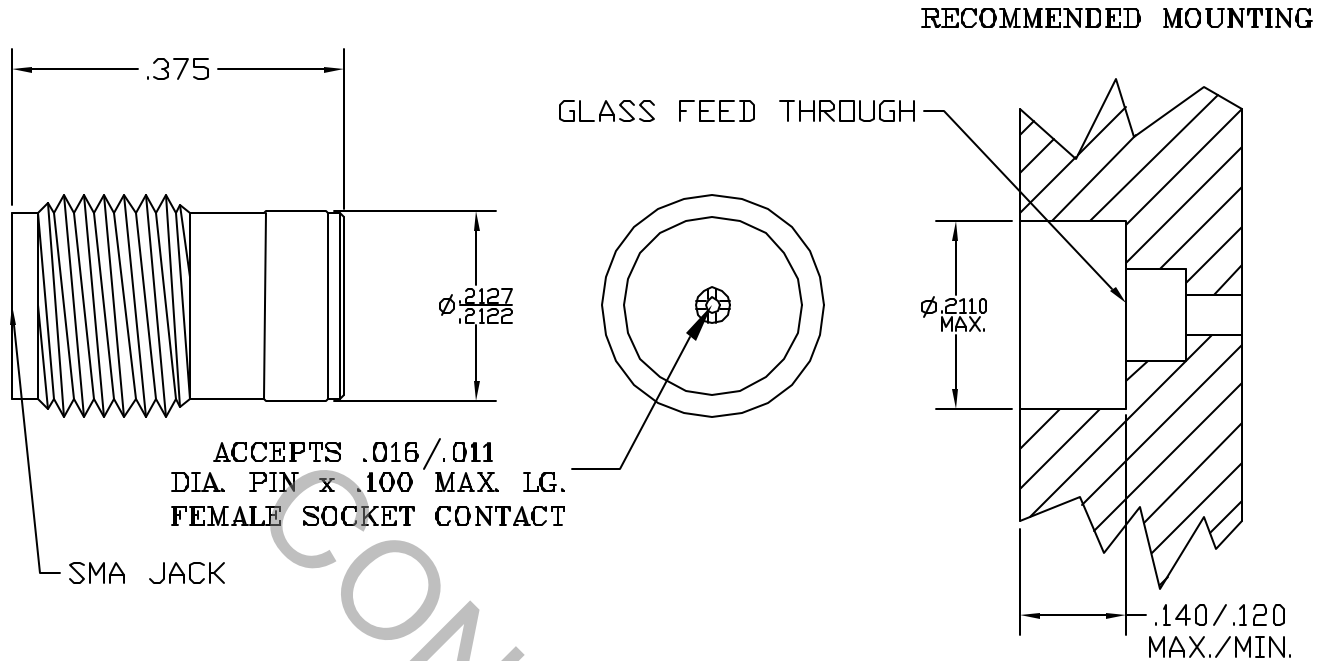


SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) *	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX.)	.04 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)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* GATED TEST DATA

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			HAVERHILL, MA 01836
AA	03-1549			DECIMALS	FRACTIONAL	ANGULAR	
				X ± .030 .XX ± .010 .XXX ± .005	1/64	X° ± 10' X° X' ± 15'	TITLE FIELD REPLACEABLE, SMA JACK, PRESS IN BARREL
				DRAWN	B.N.	DATE 4/28/03	
				APPROVED	DATE		DWG. NO. 9940-0081-6215
				CODE IDENT.	SHEET 1 OF 2		
				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; REAR 32.0
● WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0; REAR 1.0
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° e TO + 200° e)
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

BODY	STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A
CONTACT	BERYLLIUM COPPER PER QQ-C-530, ALLDY 173, COND. H.T.
INSULATOR	TEFLON PER MIL-P-1948B, AND L-P-403, TYPE 1

6. FINISH

BODY	PASSIVATE PER AMS QQ-P-35, TYPE 2
CONTACT	GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 2.5 (.000100 Minimum Thickness) OVER NICKEL per QQ-N-290 (.000050 Minimum Thickness) OVER COPPER per MIL-C-14550 (.000010 Minimum Thickness).
INSULATOR	N/A