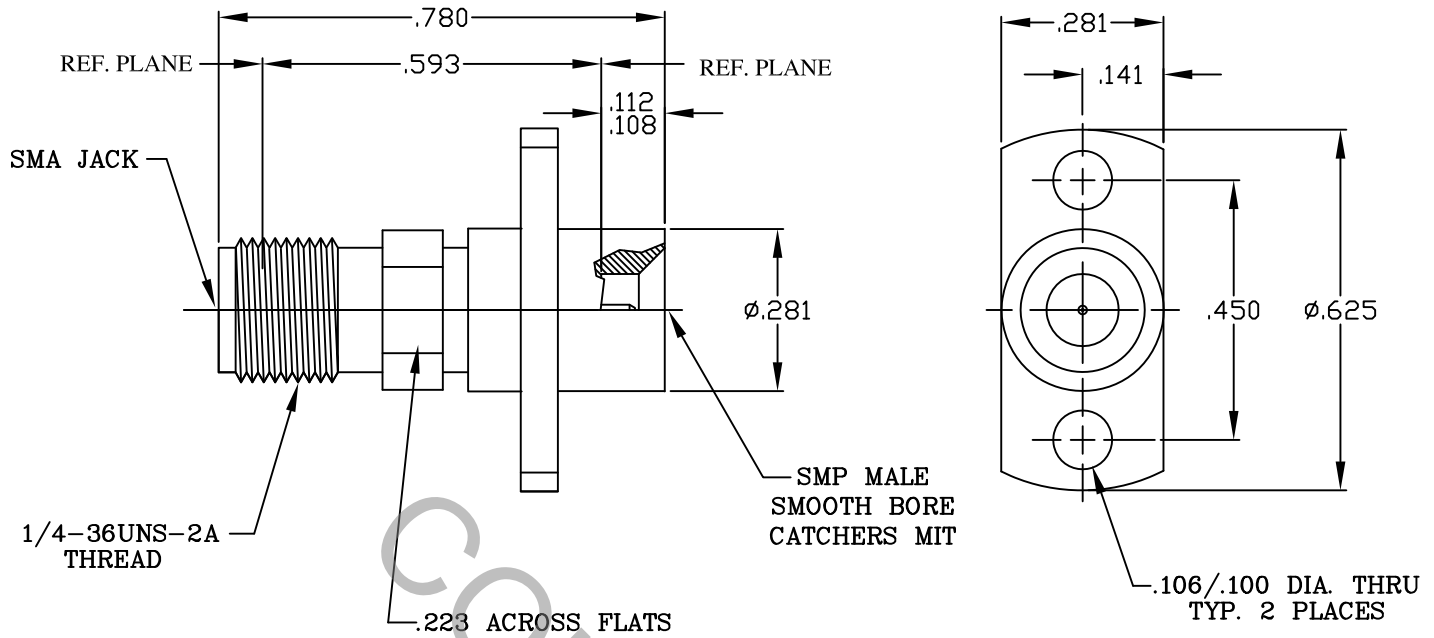


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A, FIG. 310-2, (SMA, JACK) AND MIL-STD-348A, FIG. 326-5 (SMP, PLUG, SMOOTH BORE, CATCHERS MIT)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) *	1.05 + .010 x FGHZ.
INSERTION LOSS (dB MAX.) *	.04 dB x $\sqrt{\text{FGHZ}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	190
RF LEAKAGE (MIN. dB DOWN)	85 dB - FGHZ.
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO +150° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	3.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES	 <small>INCORPORATED</small> <small>HAVERHILL, MA 01835</small>
AA	09-1067	1/23/09	TS	DECIMALS FRACTIONAL ANGULAR X ± .030 X° ± 1° 0' .XX ± .010 † 1/64 X° X' ± 15' .XXX ± .005	
AB	18-1031	1/9/18	TS	SURFACE ROUGHNESS 63 ✓ MIL-STD 10.	
				DRAWN TS DATE 1/23/09	TITLE SMA JACK 2 HOLE FLANGE MOUNT TO SMP MALE SMOOTH BORE, CATCHERS MIT ADAPTER
				APPROVED DC DATE 1/23/09	
				CODE IDENT.	DWG. NO. 1152-2199-6255
				2J899	
				SHEET 1 OF 2	

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 4.0 LBS.
- MIN. RADIAL TORQUE _____ N/A

SMA ENGAGEMENT FORCES

- INSERTION (MAX. OUNCES) _____ 48.0
- WITHDRAWAL (MIN. OUNCES) _____ 2.0

CONNECTOR DURABILITY (MIN. MATING) _____ SMA 500
SMP 1,000

SMP ENGAGEMENT FORCES

- INSERTION (MAX. POUNDS) _____ 2.0
- WITHDRAWAL (MIN. POUNDS) _____ 0.5

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.) (125 VRMS)

5. MATERIAL

CONNECTOR BODY _____ STAINLESS STEEL PER ASTM A 582 , TYPE 303 , COND.A
CENTER CONTACT _____ BERYLLIUM COPPER PER ASTM B 196/B, 196M-03, COPPER
ALLOY No. UNS 17300, TEMPER TD04.
INSULATOR _____ TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.

6. FINISH

BODY _____ PASSIVATE PER AMS 2700, TYPE 2. CLASS 4.
CENTER CONTACT _____ GOLD PER ASTM B 488, TYPE 1, CODE C, CLASS 1.25
(.000050 MIN.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1
(.000050 MIN.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
INSULATOR _____ N/A