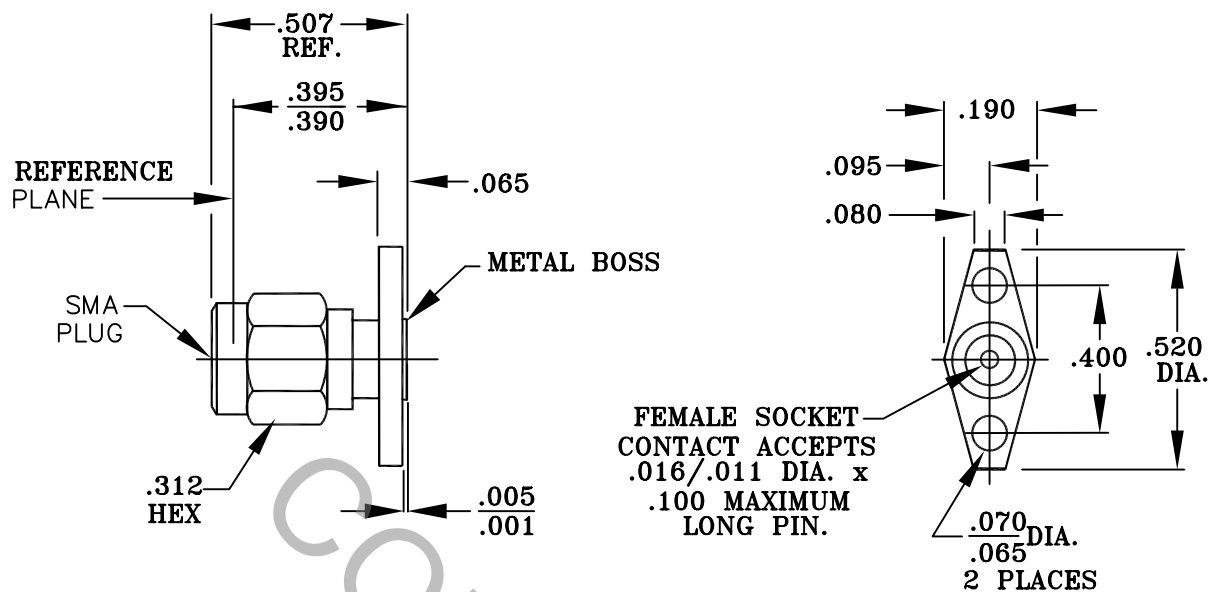


SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) *	1.05 + .006 x FGHz
INSERTION LOSS (dB MAX.)*	.04 dB x √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

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 INCORPORATED HAVERHILL, MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	97-0062	1/97	TS	.X ± .030 .XX ± .010 .XXX ± .005	±/64	X ° ± 1 '0' X ° X' ± 15'	TITLE SMA, PLUG 2 HOLE FLANGE FIELD REPLACEABLE
AB	08-1665	7/22/08	DC	SURFACE ROUGHNESS 63√MIL-STD-10.			
				DRAWN	T.S.	DATE 1/97	DWG. NO. 9852-0881-6294
				APPROVED	DGG	DATE 1/97	
				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 OZ. / FLANGE END 32.0 OZ.

● WITHDRAWAL (MIN. OUNCES) _____ INTERFACE 2.0 OZ. / FLANGE END 1.0 OZ.

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

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE _____ 7 - 10 IN. LBS.

4. ENVIRONMENTAL

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

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.) (190RMS)

5. MATERIAL

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

CONTACT AND RETAINING RING _____ BERYLLIUM COPPER PER ASTM B196-90, COPPER ALLOY
No. UNS C17300, TEMPER TD04.

INSULATOR _____ TEFLON PER ASTM D 4894-91.

GASKET _____ SILICONE RUBBER per ZZ-R-765
CLASS IIB, GRADE 50 or 60.

6. FINISH

BODY AND COUPLING NUT _____ PASSIVATE PER AMS QQ-P-35, TYPE 2

CONTACT _____ GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 2.5
(.00010 MIN. THK.) OVER NICKEL PER QQ-N-290
(.000050 MIN. THK.) OVER COPPER PER MIL-C-14550
(.000010 MIN. THK.)

INSULATOR, GASKET AND RETAINING RING _____ N/A