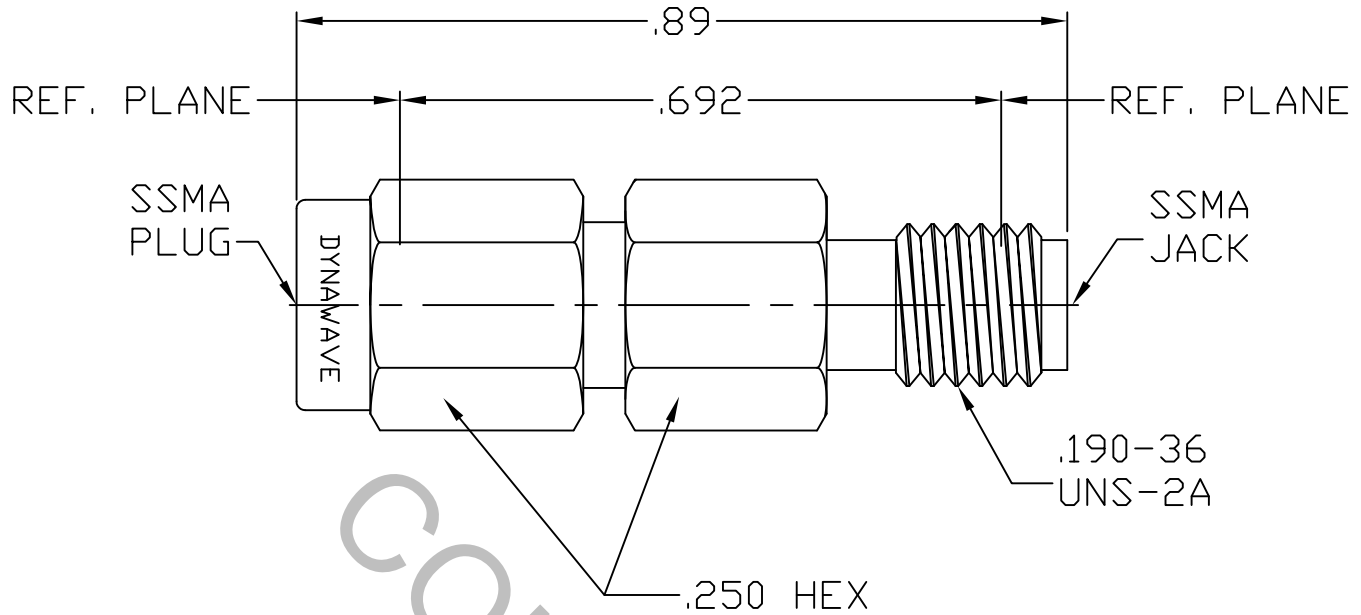


SPECIFICATION CONTROL DRAWING



1. MATING
 - 1A. INTERFACE DIMENSIONS PER MIL-STD-348, Fig. 319.1 (SSMA PLUG)
 - 2A. INTERFACE DIMENSIONS PER MIL-STD-348, Fig. 319.2 (SSMA JACK)

2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 38.0 GHz.
VSWR (MAX.) *	1.06 + .009 x FGHz.
INSERTION LOSS (dB MAX.)	.040 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)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

* GATED TESTING APPLIED.

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01835	
AA	10-1013	1/6/10	TS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X° ± 1'0" X° X' ± 15"		
				SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$.			TITLE SSMA PLUG TO SSMA, JACK ADAPTER	
				DRAWN	TS	DATE		1/6/10
				APPROVED	DC	DATE		1/6/10
				CODE IDENT.			DWG. NO. 1100-9293-6220	
				2J899	SHEET 1 OF 2			

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 4.5 LBS.
- MIN. RADIAL TORQUE _____ N/A

CENTER CONTACT AXIAL FORCES

- SSMA, JACK INSERTION (MAX. OUNCES) _____ 32.0
- SSMA, JACK WITHDRAWAL (MIN. OUNCES) _____ 1.0

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

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE (SSMA, PLUG) _____ 5 - 7 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.) (190 VRMS)

5. MATERIAL

BODY AND COUPLING NUT _____ STAINLESS STEEL PER ASTM A 582, TYPE 303, COND. A

CONTACT AND RETAINING RING _____ BERYLLIUM COPPER PER ASTM B196/B, 196M-03, COPPER ALLOY No. UNS 17300, TEMPER TD04.

INSULATOR _____ TEFLON PER ASTM D 1710-02, TYPE 1, GRADE 1, CLASS B.

GASKET _____ SILICON RUBBER PER ZZ-R-765, CLASS IIB, GRADE 50 OR 60.

6. FINISH

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

CONTACT _____ GOLD PER ATSM B 488, TYPE I, CODE C, CLASS 2.5 (.000100 MIN.) OVER NICKEL PER QQ-N-290 OVER (.000050 MIN. THK.) OVER COPPER PER MIL-C-14550 (.000010 MIN. THK.)

INSULATOR, GASKET AND RETAINING RING _____ N/A