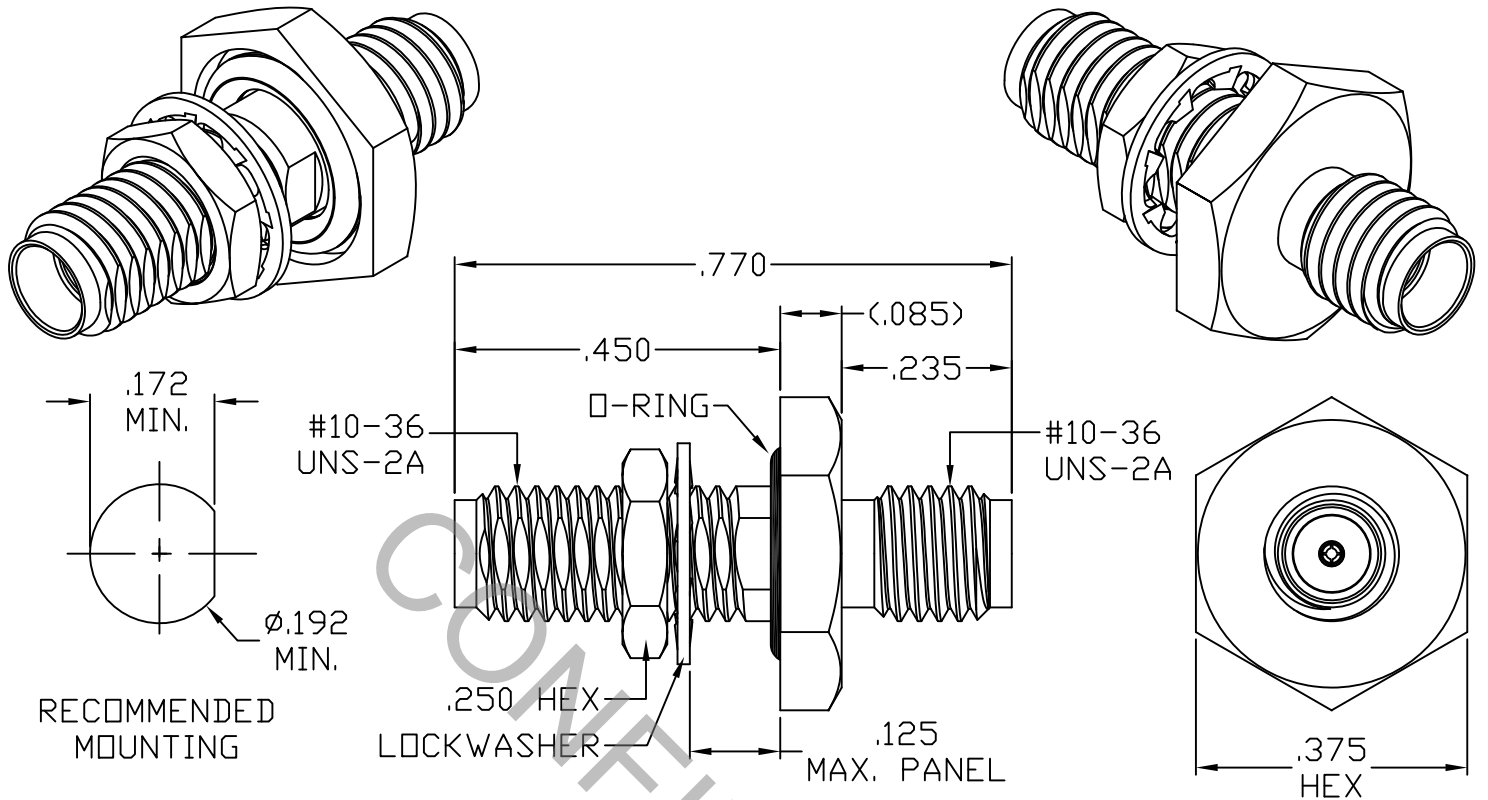


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS per MIL-STD-348 Fig. 319-2 (SSMA JACK).
2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 26.5 GHz
VSWR (MAX.) *	1.07 + .008 x FGHz
INSERTION LOSS (dB MAX.) *	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	170
RF LEAKAGE (MIN. dB DOWN)	-100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65 °C TO + 165 °C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	12.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

*TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			HAVERHILL, MA. 01835
AA	09-1884	11/23/09	TS	DECIMALS	FRACTIONAL	ANGULAR	
AB	10-1011	1/6/10	DC	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1° 0' X ° X' ± 15'	
BA	11-1606	7/18/11	DC	DRAWN	TS	DATE 11/23/09	TITLE SSMA JACK to JACK HERMETICALLY SEALED BULKHEAD ADAPTER
				APPROVED	DC	DATE 11/23/09	
				CODE IDENT.	SHEET 1 OF 2		DWG. No. 1120-9393-6400
				2J899			

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT and GLASS PIN

MIN. AXIAL FORCE (BOTH) _____ 6.0 LBS.

MIN. RADIAL TORQUE (GLASS PIN) _____ 1.5 IN. OZ.

CENTER CONTACT MATING FORCES

● INSERTION (MAX. OUNCES) _____ 48.0

● WITHDRAWAL (MIN. OUNCES) _____ 2.0

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

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

RECOMMENDED MATING TORQUE

● SMA CONNECTOR INTERFACE _____ 6-8 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)

HERMETICITY _____ 1×10^{-9} cc/SEC.

5. MATERIAL

CONNECTOR _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

CENTER CONTACTS _____ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.

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

GLASS _____ ELECTRO-GLASS EN-1

GLASS, MALE PIN _____ KOVAR

O'RING & GASKETS _____ SILICON RUBBER PER ZZ-R-765

6. FINISH

CONNECTOR BODY AND GLASS PIN _____ GOLD per ASTM-B-488, TYPE I, CODE C, CLASS 1.25 (.000050 Min. Thk.) OVER NICKEL per QQ-N-290, CLASS 1 (.000150 Min. Thk.) OVER COPPER per MIL-C-14550 (.000010 Min. Thk.).

CENTER CONTACTS _____ GOLD per ASTM-B-488, TYPE I, CODE C, CLASS 1.27 (.000050 Min. Thk.) OVER NICKEL per QQ-N-290, CLASS 1 (.000050 Min. Thk.) OVER COPPER per MIL-C-14550 (.000010 Min. Thk.).

INSULATORS, O'RING & GASKETS _____ N/A