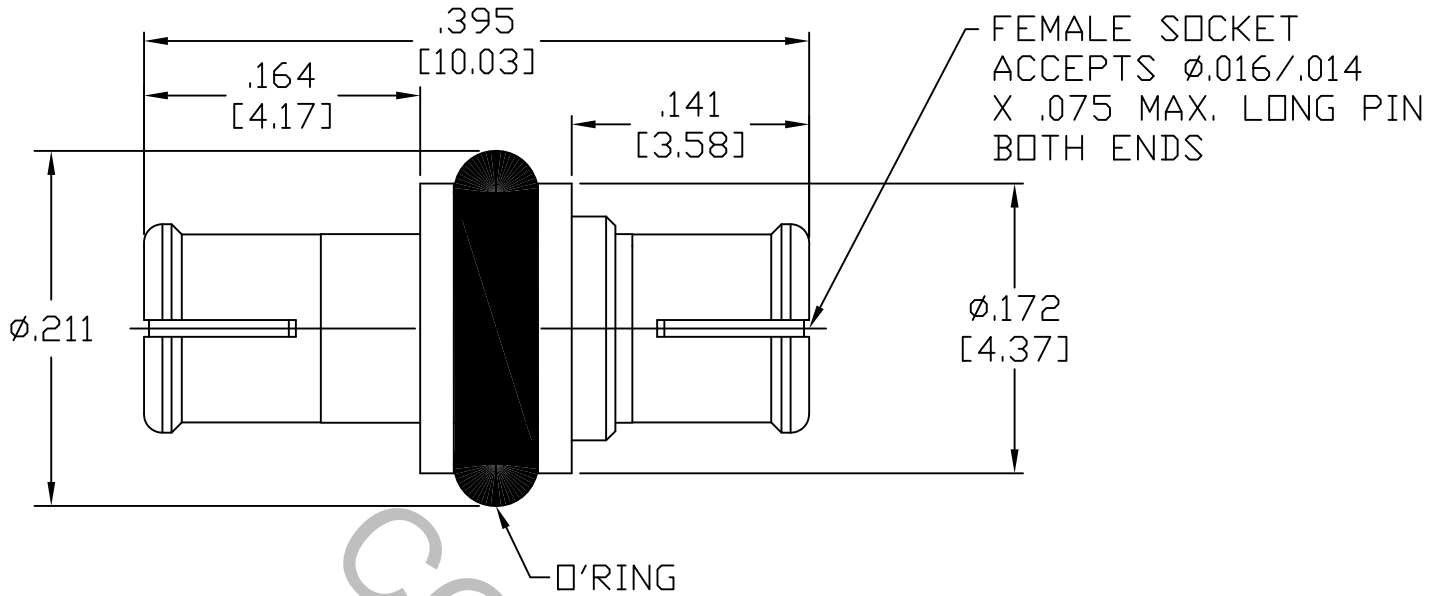


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348 FIG. 326.1B (SMP ADAPTER SERIES)

2. ELECTRICAL

FREQUENCY RANGE (DC TO 23.0 GHz.) *		VSWR 1.10:1 MAX.
FREQUENCY RANGE (23.0 TO 26.5 GHz.) *		VSWR 1.15:1 MAX.
FREQUENCY RANGE (26.5 TO 40.0 GHz.) *		VSWR 1.40:1 MAX.
INSERTION LOSS (dB MAX.)		.10 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)		50
VOLTAGE RATING (MAX. VRMS)		170 @ SEA LEVEL
(OVER FREQ. RANGE)		45 @ 70,000 FEET
RF LEAKAGE (MIN. dB DOWN)		-80 dB (3 GHz. MAX.)
		-85 dB (26.5 GHz. MAX.)
TEMPERATURE RATING (DEGREES CENTIGRADE)		-65 ° c TO + 165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)		500 @ SEA LEVEL
		125 @ 70,000 FEET
INSULATION RESISTANCE (MIN. MEGOHMS)		5,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)		6.0
• OUTER CONTACT (MAX. MILLIOHMS)		2.0

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835	
AA	16-2576	12/15/16	TS	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1' 0" X ° X' ± 15"	TITLE SMP INTERCONNECT ADAPTER JACK TO JACK	
				SURFACE ROUGHNESS 63 $\sqrt{\text{MIL-STD 10}}$.				
				DRAWN TS DATE 12/15/16				
				APPROVED BN DATE 12/15/16				
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO. 1100-2020-5444		

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE _____ 1.5 LBS.
- MIN. RADIAL TORQUE _____ N/A
- RADIAL MISALIGNMENT _____ .010 MIN.
- AXIAL MISALIGNMENT _____ .000/.010

CONNECTOR DURABILITY (MIN. MATING)

- A.) FULL DETENT _____ 100
- B.) LIMITED DETENT _____ 500
- C.) SMOOTH BORE _____ 1000

4. ENVIRONMENTAL

- THERMAL SHOCK _____ MIL-STD-202, METHOD 107, COND. B (HIGH TEMP. +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,
1000 MEGOHMS MINIMUM WITHIN 5 MINUTES.
- CORONA (70,000 FEET) _____ 190 VRMS
- RF HIGH POTENTIAL MIN. VOLTS _____ 325 VRMS @ SEA LEVEL, FREQ. 5 MHz.
- VIBRATION, RANDOM _____ MIL-STD 202, METHOD 214, TEST CONDITION F

5. MATERIAL

- CONNECTOR BODY AND CENTER CONTACT _____ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER
ALLOY No. UNS-C17300, TEMPER TD04.
- INSULATOR _____ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.
- O'RING _____ SILICONE RUBBER PER ZZ-R-765E, CLASS 1 OR ASM 3304.

6. FINISH

- CONNECTOR BODY AND CENTER CONTACT _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25
(.000050-.000100 THK.) OVER NICKEL PER SAE-AMS-QQ-N-290,
CLASS 1 (.000100 MIN. THK.) OVER COPPER PER AMS-2418,
(.000040 MIN. THK.)
- INSULATOR & O'RING _____ N/A