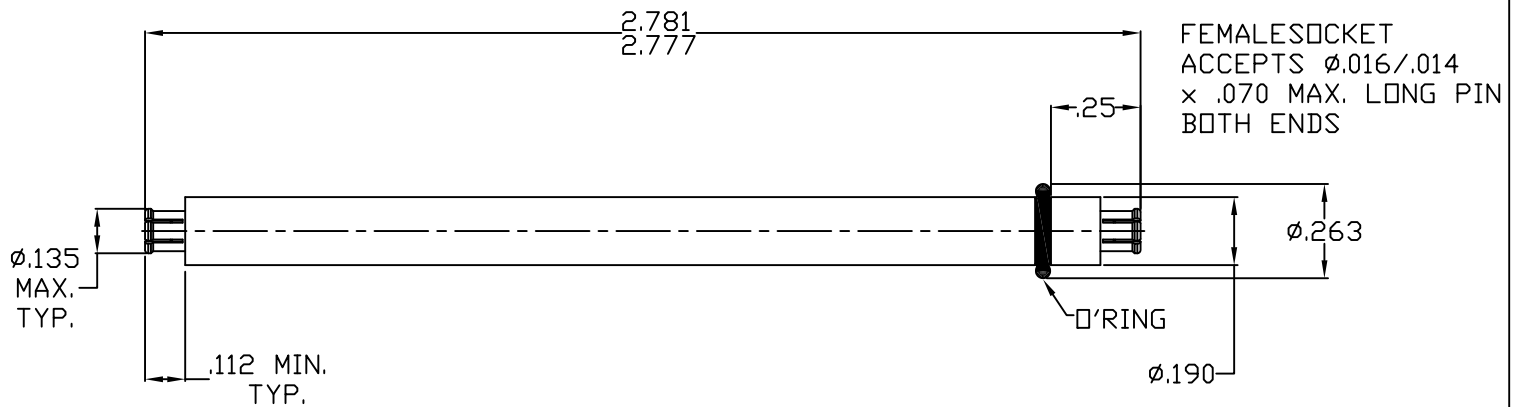


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348 FIG. 326.1 (SMP FEMALE)

2. ELECTRICAL

FREQUENCY RANGE	DC TO 40.0 GHz.
VSWR	1.05 + .008 x FGHz.
INSERTION LOSS (dB MAX.)	.10 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	335 @ SEA LEVEL
RF LEAKAGE (MIN. dB DOWN)	-80 dB (4 GHz. MAX.)
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65° c TO + 165° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	500 @ SEA LEVEL
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	2.0
• 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
				DECIMALS	FRACTIONAL	ANGULAR	
AA	16-2484	12/1/16	TS	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1° 0' X° X' ± 15'	TITLE SMP FEMALE TO SMP FEMALE ADAPTER
AB	17-1284	3/1/17	TS	SURFACE ROUGHNESS 63 √ MIL-STD 10.			
				DRAWN	TS	DATE	12/1/16
				APPROVED	DC	DATE	12/1/16
				CODE IDENT.			DWG. NO. 1100-2020-5435
				2J899	SHEET 1 OF 2		

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

FORCES TO ENGAGE AND DISENGAGE

ENGAGE

- A.) FULL DETENT SHROUD _____ 15.0 LBS. MAX
- B.) LIMITED DETENT SHROUD _____ 10.0 LBS. MAX
- C.) SMOOTH BORE SHROUD _____ 2.0 LBS. MAX

DISENGAGE

- A.) FULL DETENT SHROUD _____ 5.0 LBS. MIN.
- B.) LIMITED DETENT SHROUD _____ 2.0 LBS. MIN.
- C.) SMOOTH BORE SHROUD _____ 0.05 LBS. MIN.

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 B196/B, 196M-03, COPPER
ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR _____ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.
EMI O'RINGS _____ SILVER PLATED ALUMINUM IN SILICONE

6. FINISH

CONNECTOR BODY AND CENTER CONTACT _____ GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.25
(.000050 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1,
(.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.).

INSULATOR & EMI O'RINGS _____ N/A