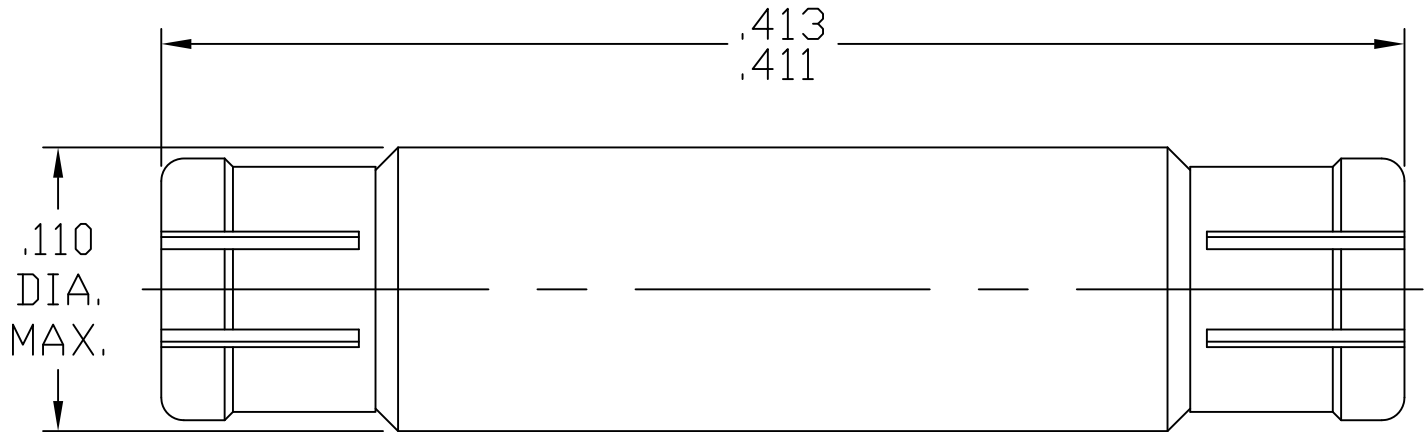


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348A Fig. 328.1


2. ELECTRICAL

FREQUENCY RANGE	_____	DC TO 50.0 GHz.
(DC TO 23.0 GHz.) *	_____	VSWR 1.10 MAX.
(23.0 TO 26.5 GHz.) *	_____	VSWR 1.15 MAX.
(26.5 TO 40.0 GHz.) *	_____	VSWR 1.40 MAX.
(40.0 TO 50.0 GHz.) *	_____	VSWR 1.50 MAX.
INSERTION LOSS (dB MAX.)	_____	.12 dB x $\sqrt{\text{FGHz}}$.
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	<input type="text"/>	170 @ SEA LEVEL
(OVER FREQ. RANGE)		45 @ 70,000 FEET
RF LEAKAGE (MIN. dB DOWN)	<input type="text"/>	80 dB (3 GHz. MAX.)
		65 dB (26.5 GHz. MAX.)
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65 ° c TO + 165 ° c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	<input type="text"/>	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

* TESTED IN ACCORDANCE WITH DSCC 94007 VSWR PROCEDURE.

RoHS

This Document contains proprietary and confidential information. COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01835
AA	15-2216	8/26/15	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 SMPM, INTERCONNECT ADAPTER FEMALE TO FEMALE
				DRAWN TS	DATE 8/26/15		
				APPROVED DC	DATE 8/26/15		
				CODE IDENT. 2J899	SHEET 1 OF 2	DWG. NO.	1100-3030-5403

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/.007

CONNECTOR DURABILITY (MIN. MATING) _____ A.) FULL DETENT _____ 100
B.) SMOOTH BORE _____ 1000

CONNECTOR ENGAGEMENT (MAX. LBS) _____ A.) FULL DETENT _____ 5.0
B.) SMOOTH BORE _____ 2.0

CONNECTOR DISENGAGEMENT (MIN. LBS) _____ A.) FULL DETENT _____ 2.5
B.) SMOOTH BORE _____ 0.5

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, CALSS B.

6. FINISH

CONNECTOR BODY _____ 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
(.000100 MIN.) OVER COPPER PER AMS 2418 (.000040 MIN. THK)
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.) OVER COPPER PER AMS 2418 (.000010 MIN.THK.)
INSULATOR _____ N/A