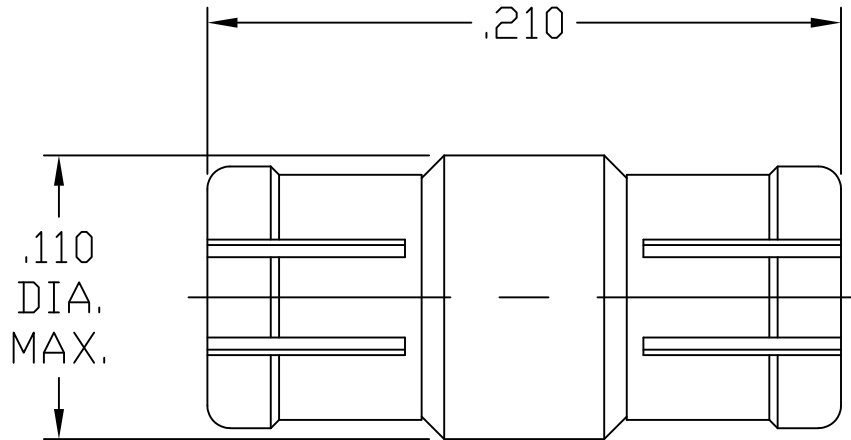


SPECIFICATION CONTROL DRAWING



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.)	_____	.10 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
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			<small>INCORPORATED HAVERHILL, MA 01835</small>
				DECIMALS	FRACTIONAL	ANGULAR	
AA	05-2202	11/15/05	TS	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1' 0" X°.X' ± 15"	TITLE SMPM, INTERCONNECT ADAPTER FEMALE TO FEMALE
AB	18-2275	11/13/18	DC	SURFACE ROUGHNESS 63 √ MIL-STD 10.			
				DRAWN TS	DATE 11/15/05	DWG. NO. 1100-3030-5452	
				APPROVED DC	DATE 11/15/05		
				CODE IDENT. 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/.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 B196-90, COPPER ALLOY No. UNS C17300, TEMPER TD04.
INSULATOR _____	TEFLON PER ASTM D 1710.

6. FINISH

CONNECTOR BODY _____	GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27 (.000050 MIN.) OVER NICKEL PER SAE-AMS-QQ-N-290 CLASS 1 (.000100 MIN.) OVER COPPER PER AMS-2418 (.000040 MIN.)
CONTACT _____	GOLD PER ASTM-B-488, TYPE II, CODE C, CLASS 1.27 (.000050 MIN.) OVER NICKEL PER SAE-AMS-QQ-N-290 CLASS 1 (.000050 MIN.) OVER COPPER PER AMS-2418 (.000010 MIN.)
INSULATOR _____	N/A