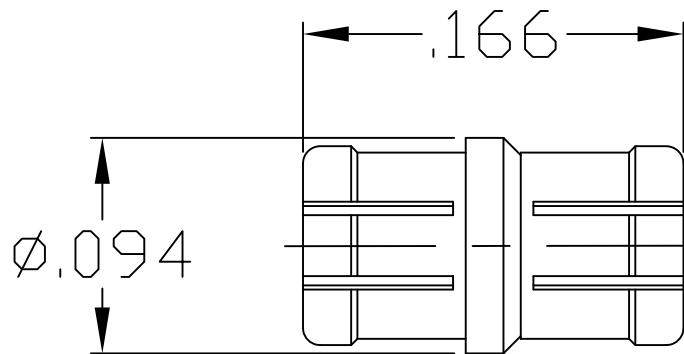


SPECIFICATION CONTROL DRAWING



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)	325 @ SEA LEVEL
(OVER FREQ. RANGE)	45 @ 70,000 FEET
RF LEAKAGE (MIN. dB DOWN)	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)	500 @ SEA LEVEL
	125 @ 70,000 FEET
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	2.0
• 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			 INCORPORATED HAVERHILL, MA. 01835
AA	13-2183	9/4/13	DC	DECIMALS .X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X ° ± 1' 0" X ° X' ± 15"	
AB	17-1281	2/28/17	TS	SURFACE ROUGHNESS 63 ✓ MIL-STD 10.			
				DRAWN SS DATE 9/4/13			TITLE SMPM, INTERCONNECT ADAPTER FEMALE TO FEMALE
				APPROVED DC DATE 9/4/13			
				CODE IDENT. 2J899		SHEET 1 OF 2	DWG. NO. 1100-3030-5424

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.) DETENT — 100 B.) SMOOTH BORE — 1000
CONNECTOR ENGAGEMENT (MAX. LBS)	A.) DETENT — 5.0 B.) SMOOTH BORE — 2.0
CONNECTOR DISENGAGEMENT (MIN. LBS)	A.) 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)	125 VRMS
RF HIGH POTENTIAL MIN. VOLTS	200 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.

6. FINISH

CONNECTOR BODY	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.)
CENTER CONTACT	GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 1.27 (.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	N/A