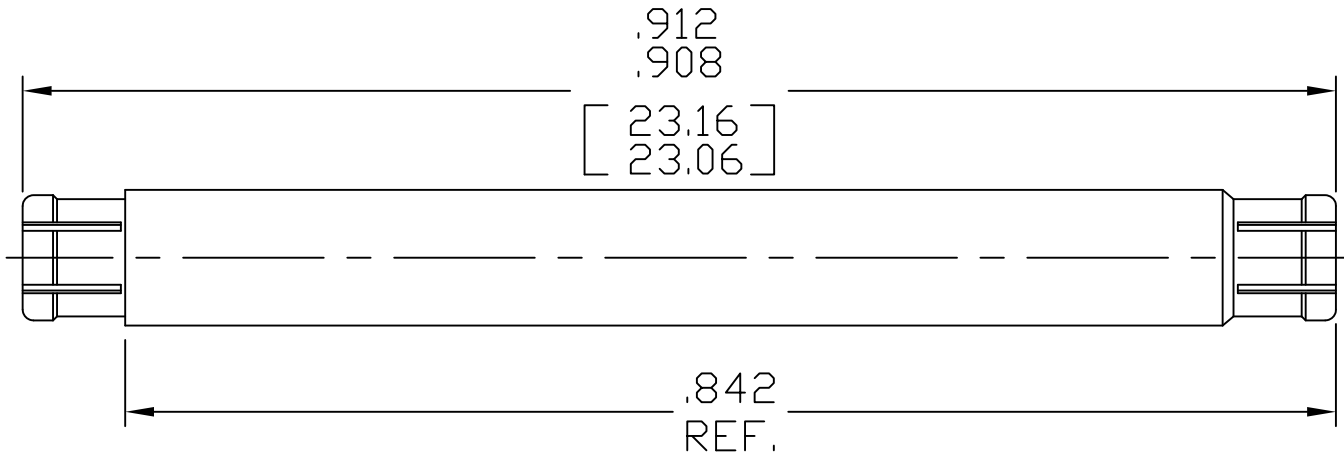


SPECIFICATION CONTROL DRAWING



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{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.

This Document contains proprietary and confidential information.

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	14-1993	8/12/14	TS	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1' 0" X° X' ± 15"	TITLE SMPM, INTERCONNECT ADAPTER FEMALE TO FEMALE
AB	14-2012	8/15/14	TS	SURFACE ROUGHNESS 63 √ MIL-STD 10.			
AC	14-2066	8/27/14	TS	DRAWN	TS	DATE 8/12/14	DWG. NO. 1100-3030-5423
AD	14-2089	9/2/14	TS	APPROVED	DC	DATE 8/12/14	
				CODE IDENT.	SHEET 1 OF 2		
				2J899			

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 _____ 500
CONNECTOR ENGAGEMENT (MAX. LBS)	_____	A.) FULL DETENT _____ 6.5 B.) SMOOTH BORE _____ 1.5
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, CLASS 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 (.000050 MIN.THK.) OVER COPPER PER AMS 2418 (.000040 MIN.)
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.) OVER COPPER PER AMS 2418 (.000010 MIN.)
INSULATOR	_____	N/A