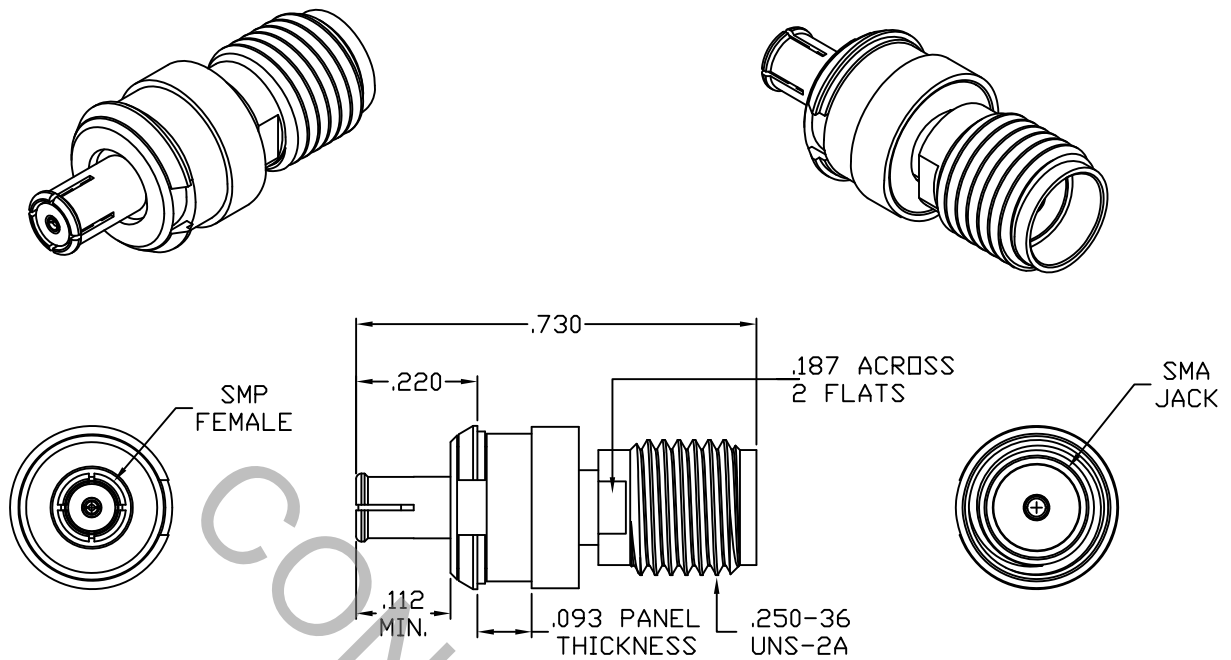


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 326.1 (SMP FEMALE) AND MIL-STD-348 Fig. 310.2 (SMA JACK).

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz
VSWR (MAX) *	_____	1.07 + .010 x FGHz
INSERTION LOSS (dB MAX) *	_____	.045 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	250
RF LEAKAGE (MIN. dB DOWN)	_____	N/A
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°C TO + 165°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	750
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	5,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	10.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

* TERMINATED IN A 50 OHM LOAD

This Document contains proprietary and confidential information.

RoHS
COMPLIANT

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			INCORPORATED HAVERHILL, MA 01835
AA	03-1923	7/22/03	BN	DECIMALS	FRACTIONAL	ANGULAR	
AB	03-1956	7/31/03	DC	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X° ± 1'0" XX' ± 15'	
AC	03-1968	8/4/03	DC	DRAWN	BN	DATE 7/03/03	TITLE SMP FEMALE, FLOAT, PANEL MOUNT TO SMA FEMALE ADAPTER
AD	04-1794	6/23/04	DC	APPROVED	BN	DATE 7/22/03	
AE	17-1271	2/24/17	DC				
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 1160-2099-5441
				2J899			

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MIN. AXIAL FORCE _____ 4.5 LBS.

MIN. RADIAL TORQUE _____ N/A

CONNECTOR ENGAGEMENT FORCES

● INSERTION (MAX. POUNDS) _____ *10.0*

● WITHDRAWAL (MIN. POUNDS) _____ *2.0*

CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) _____ 2.0

CONNECTOR DURABILITY (MIN. CYCLES) _____ 500

* WHEN MATED WITH A LIMITED DETENT SHROUD PER MIL-STD-348 Fig 326.4 *

4. ENVIRONMENTAL

TEMPERATURE CYCLING _____ MIL-STD-202, METHOD 107, COND. C (-65° c TO +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

CORROSION _____ MIL-STD-202, METHOD 101, COND. B (48 HOURS)

BAROMETRIC PRESSURE (ALTITUDE) _____ MIL-STD-202, METHOD 105, COND. C (70,000 FT.) (125 VRMS)

5. MATERIAL

SMA BODY, FERRULE, PRESS SLEEVE & BUSHING _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

SMP BODY, CONTACT & RETAINING RING _____ BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.

INSULATORS _____ TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.

SPRING _____ MUSIC WIRE

6. FINISH

SMA BODY, FERRULE, PRESS SLEEVE & BUSHING _____ PASSIVATE PER AMS-2700, TYPE 2, CLASS 4.

RETAINING RING _____ NICKEL PER SAE-AMS-QQ-N-290, CLASS 1
(.000200 MIN. THK.) OVER COPPER PER AMS-2418
(.000010 MIN. THK.)

SMP BODY & 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.)

INSULATORS & SPRING _____ N/A