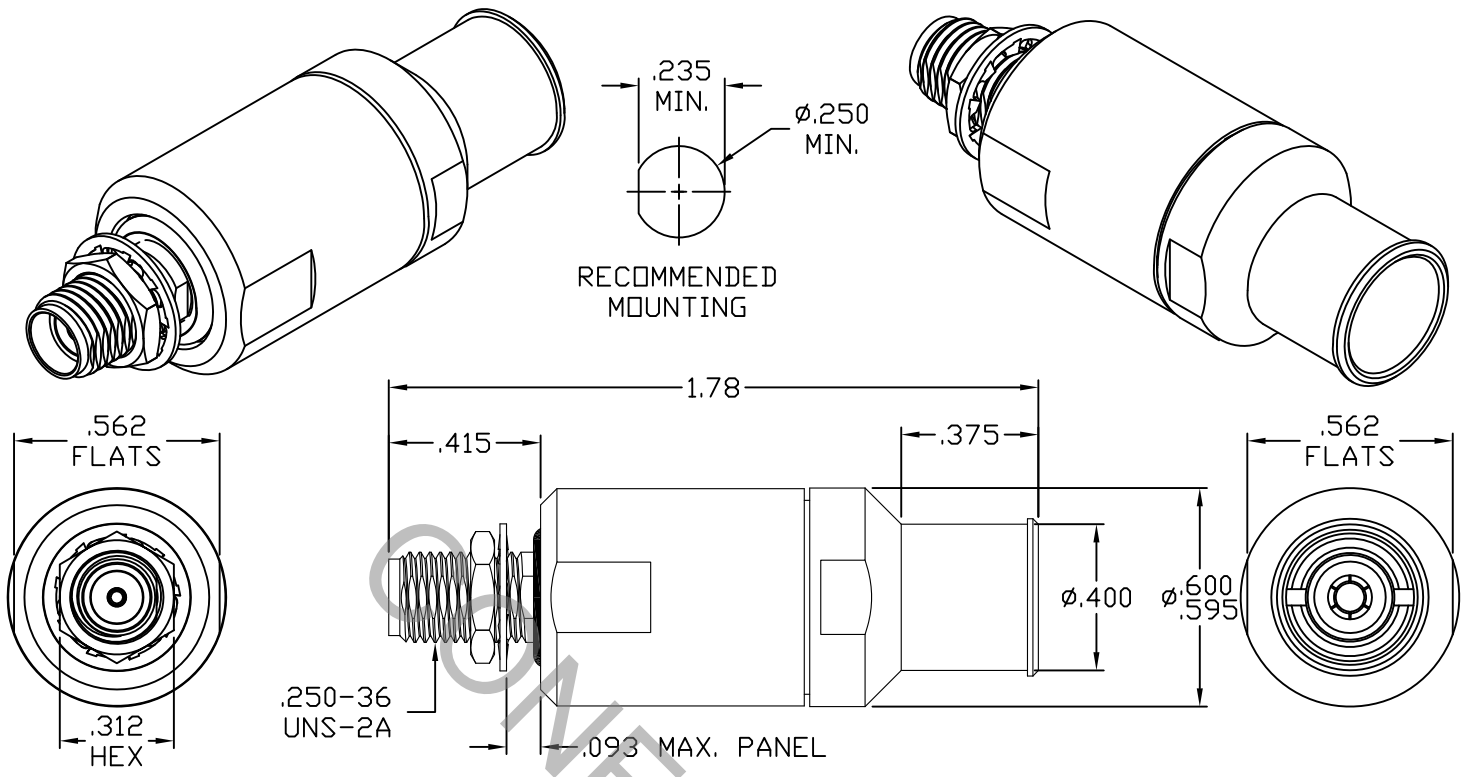


SPECIFICATION CONTROL DRAWING



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

2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 18.0 GHz
VSWR (MAX.) *	_____	1.05 + .005 x FGHz
INSERTION LOSS (dB MAX.) *	_____	.04 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	333
RF LEAKAGE (MIN. dB DOWN)	_____	-100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	1,000
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	5,000
CONTACT RESISTANCE		
• CENTER CONTACT (MAX. MILLIOHMS)	_____	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	_____	2.0

* TERMINATED IN A 50 OHM LOAD

RoHS
COMPLIANT

This Document contains proprietary and confidential information.

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			CABLE INCORPORATED HAVERHILL, MA 01835
AA	13-1383	3/18/13	DC	DECIMALS	FRACTIONAL	ANGULAR	
AB	13-2080	8/2/13	DC	.X ± .030 .XX ± .010 .XXX ± .005	± 1/64	X ° ± 1° 0' X ° X' ± 15'	
				DRAWN RMS	DATE	3/15/13	TITLE SMA JACK, BULKHEAD, SOLDER CLAMP, PLUG-IN, CTC, DF118W LOW LOSS
				APPROVED DC	DATE	3/18/13	
				CODE IDENT.			DWG. NO. 9910-118W-6240
				6DZL5	SHEET 1 OF 2		

SPECIFICATION CONTROL DRAWING

3. MECHANICAL

CAPTIVATION-CENTER CONTACT

MAX. AXIAL FORCE	6.0 LBS.
MAX. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES)	INTERFACE 32.0
● WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RECOMMENDED MATING TORQUE	7 - 10 IN. LBS.
RECOMMENDED MOUNTING TORQUE	18 - 22 IN. LBS.

4. ENVIRONMENTAL

THERMAL SHOCK	MIL-STD-202, METHOD 107, COND. B (-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.) (190 VRMS)

5. MATERIAL

BODY, PRESS SLEEVE, HEX NUT & CLAMP NUT	STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A
LOCKWASHER	400 SERIES STAINLESS STEEL
CONTACTS	BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY No. UNS-C17300, TEMPER TD04.
INTERFACE INSULATOR	TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.
REAR INSULATOR	CROSS LINKED POLYETHYLENE (400° F).
SOLDER SLEEVE	BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.
O-RINGS	SILICONE RUBBER PER ZZ-R-765E, CLASS 1 OR ASM-3304.

6. FINISH

BODY, PRESS SLEEVE, HEX NUT, LOCKWASHER & CLAMP NUT	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4.
SOLDER SLEEVE	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 (.000150 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
CONTACTS	GOLD PER ASTM-B-488, TYPE I, CODE C, CLASS 0.75 (.000030 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLASS 1 (.000050 MIN. THK.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
INSULATORS & O-RINGS	N/A