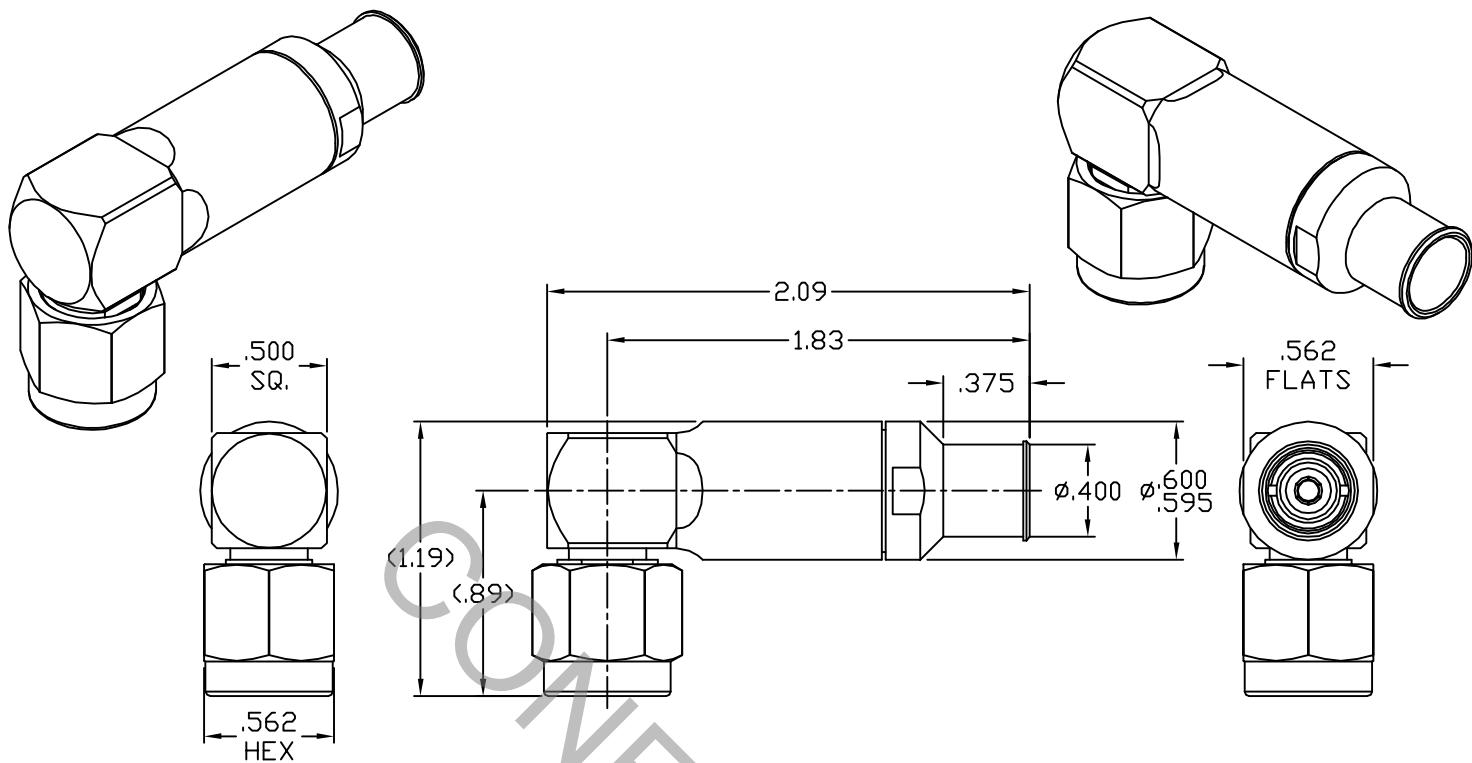


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS Per MIL-STD-348 Fig. 313.3 (TNCA PLUG) WITH SOLID OUTER.

## 2. ELECTRICAL

FREQUENCY RANGE GHZ	DC TO 18.0 GHZ
VSWR (MAX.) *	1.08 + .007 x FGHz
INSERTION LOSS (dB MAX.) *	.05 dB x $\sqrt{F}$ GHz
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	500
RF LEAKAGE (MIN. dB DOWN)	-100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°C TO + 165°C
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,500
INSULATION RESISTANCE (MIN. MEGOHMS)	5,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	1.5
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

\* TERMINATED IN A 50 OHM LOAD

**RoHS  
COMPLIANT**

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 HAVERHILL, MA 01835
AA	12-1633	8/1/12	TS	DECIMALS $.X \pm .030$ $.XX \pm .010$ $.XXX \pm .005$	FRACTIONAL $\pm 1/64$	ANGULAR $X^\circ \pm 1^\circ 0'$ $X^\circ X' \pm 15'$	
AB	12-1935	10/11/12	DC				
				DRAWN	RMS	DATE 10/11/12	
				APPROVED	DC	DATE 10/11/12	TITLE TNCA PLUG, RIGHT ANGLE, SOLDER CLAMP, PLUG-IN CONTACT, DF218 LOW LOSS
				CODE IDENT.	SHEET 1 OF 2		DWG. NO. 8401-218H-6240
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# 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) ————— N/A  
• WITHDRAWAL (MIN. OUNCES) ————— N/A  
CONNECTOR ENGAGEMENT/DISENGAGEMENT (MAX. LBS.) ————— 2.0  
CONNECTOR DURABILITY (MIN. CYCLES) ————— 500  
RECOMMENDED MATING TORQUE ————— 15 - 18 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. ) ( 375 VRMS )

## 5. MATERIAL

BODY, BUSHING, CLAMP NUT & COUPLING NUT ————— STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A  
CONTACTS & RETAINING RING ————— BERYLLIUM COPPER PER ASTM-B-196/B, 196M-03, COPPER ALLOY NO. UNS-C17300, TEMPER TD04.  
FRONT INSULATOR ————— TEFLON PER ASTM-D-1710-02, TYPE 1, GRADE 1, CLASS B.  
REAR INSULATOR ————— CROSS LINKED POLYETHYLENE) 400° F.  
GASKET ————— SILICONE RUBBER PER ZZ-R-765.  
SOLDER SLEEVE ————— BRASS PER ASTM-B-16, TEMPER H02, ALLOY C36000.

## 6. FINISH

BODY, BUSHING, CLAMP NUT & COUPLING 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 NICKEL (WOODS OR WATTS (.000010 MIN. THK.))  
CONTACTS ————— 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, RETAINING RING & GASKET ————— N/A