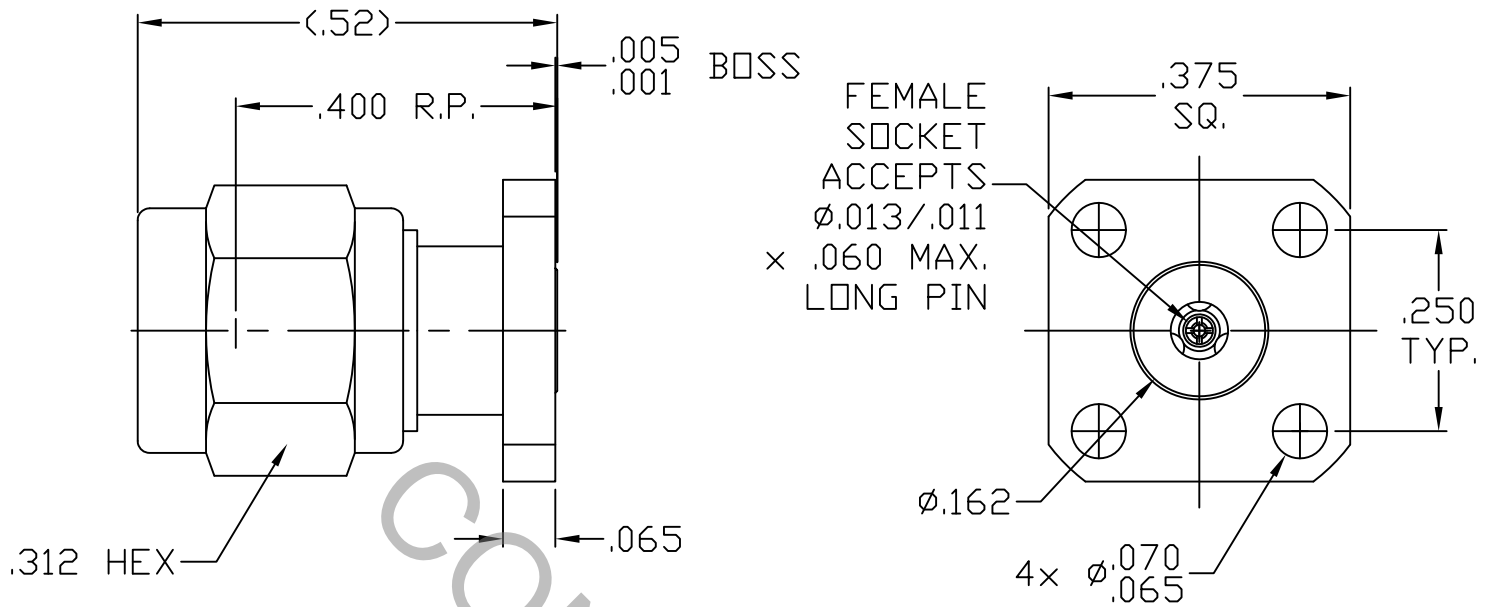


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS per MIL-STD-348 Fig. 323.1 (SMK PLUG)

## 2. ELECTRICAL

FREQUENCY RANGE GHz	_____	DC TO 40.0 GHz
VSWR (MAX.) *	_____	1.05 + .01 x FGHz
INSERTION LOSS (dB MAX.)	_____	.03 dB x $\sqrt{\text{FGHz}}$
NOMINAL IMPEDANCE (OHMS)	_____	50
VOLTAGE RATING (MAX. VRMS)	_____	250
RF LEAKAGE (MIN. dB DOWN)	_____	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65°c TO + 125°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	750
INSULATION RESISTANCE (MIN. MEGOHMS)	_____	10,000
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			 <small>INCORPORATED</small> HAVERHILL, MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	15-2801	12/16/15	TS	.X +.030		X° ± 1'0"	<b>TITLE</b> 2.9mm PLUG, 4 HOLE FLANGE MOUNT ACCEPTS Ø.012 PIN
				.XX ±.010	± 1/64	X° X' ± 15'	
				.XXX ±.005			
				DRAWN: TS      DATE: 12/16/15			<b>DWG. NO.</b> 9454-0085-3203
				APP.: DC      DATE: 12/16/15			
				CODE IDENT. 2J899	SHEET 1 OF 2		

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

CAPTIVATION-CENTER CONTACT	
MAX. AXIAL FORCE	4.5 LBS.
MAX. RADIAL TORQUE	N/A
CENTER CONTACT AXIAL FORCES	
● INSERTION (MAX. OUNCES)	INTERFACE AND REAR 32.0
● WITHDRAWAL (MIN. OUNCES)	INTERFACE 2.0, REAR 1.0
CONNECTOR ENGAGEMENT/DISENGAGEMENT(MAX. IN. LBS.)	2.0
CONNECTOR DURABILITY (MIN. CYCLES)	500
RRECOMMENDED MATING TORQUE	7 - 10 IN. LBS.

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING	MIL-STD-202, METHOD 102, COND. C ( -65 °c TO + 125 °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

CONNECTOR BODY, C/NUT & PRESS SLEEVE	STAINLESS STEEL PER ASTM A 479, TYPE 316L.
CONTACT & RETAINING RING	BERYLLIUM COPPER PER ASTM B 196/B, 196M-03, COPPER ALLOY C17300, TEMPER TD04.
INSULATOR	PLASTIC COMPOSIT
GASKET	SILICONE

## 6. FINISH

BODY & COUPLING NUT	PASSIVATE PER AMS 2700, TYPE 2, CLASS 4
PRESS 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 .75 (.000030 MIN. THK.) OVER NICKEL PER SAE AMS QQ-N-290, CLAS 1 (.000050 Min. Thk.) OVER COPPER PER AMS 2418 (.000010 MIN. THK.)
INSULATOR, RETAINING RING & GASKET	N/A