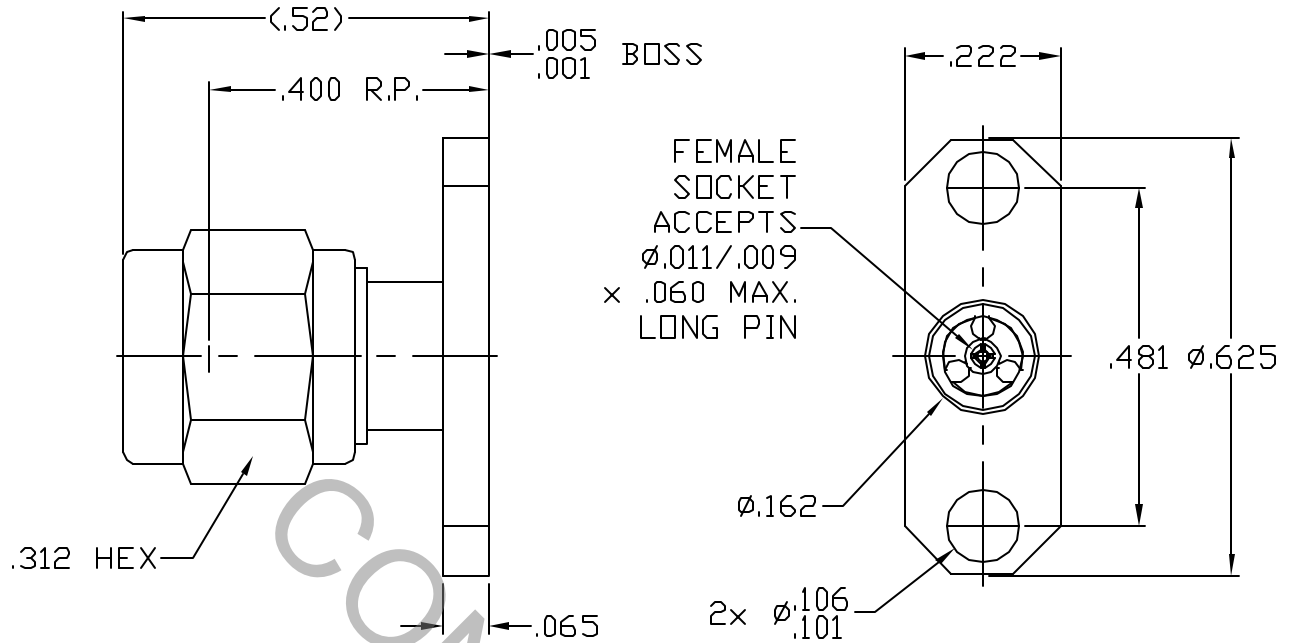


# SPECIFICATION CONTROL DRAWING



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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 <small>INCORPORATED</small> HAVERHILL, MA. 01835
				DECIMALS	FRACTIONAL	ANGULAR	
AA	02-0814	9/31/02	TS	.X ±.030 .XX ±.010 .XXX ±.005	± 1/64	X ±10' X' X' ±5'	
AB	04-1230	2/25/04	DC				
BA	05-2055	10/14/05	DC	DRAWN: MRH	DATE: 9/30/02	TITLE 2.9mm PLUG, 2 HOLE FLANGE MOUNT FOR .009 DIA. PIN	
				APP.: TS	DATE: 9/30/02		
				CODE IDENT.	SHEET 1 OF 2	DWG. NO.	9452-0085-6209
				2J899			

# 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 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. ) ( 190RMS )

## 5. MATERIAL

CONNECTOR BODY & C/NUT	STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A
CONTACT & RETAINING RING	BERYLLIUM COPPER PER QQ-C-530, ALLOY 173, COND. H.T.
INSULATOR	PLASTIC COMPOSIT
GASKET	SILICONE
SLEEVE	STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A

## 6. FINISH

BODY & COUPLING NUT	PASSIVATE PER AMS QQ-P-35, TYPE 2
CONTACT	GOLD per ASTM-B-488, TYPE I, CODE C, CLASS 2.5 (.000100 Min. Thk.) OVER NICKEL per QQ-N-290 (.000050 Min. Thk.) OVER COPPER per MIL-C-14550 (.000010 Min. Thk.).
CONTACT	GOLD per ASTM-B-488, TYPE I, CODE C, CLASS 1.25 (.000050 Min. Thk.) OVER NICKEL per QQ-N-290 (.000150 Min. Thk.) OVER COPPER per MIL-C-14550 (.000010 Min. Thk.).
INSULATOR, RETAINING RING & GASKET	N/A