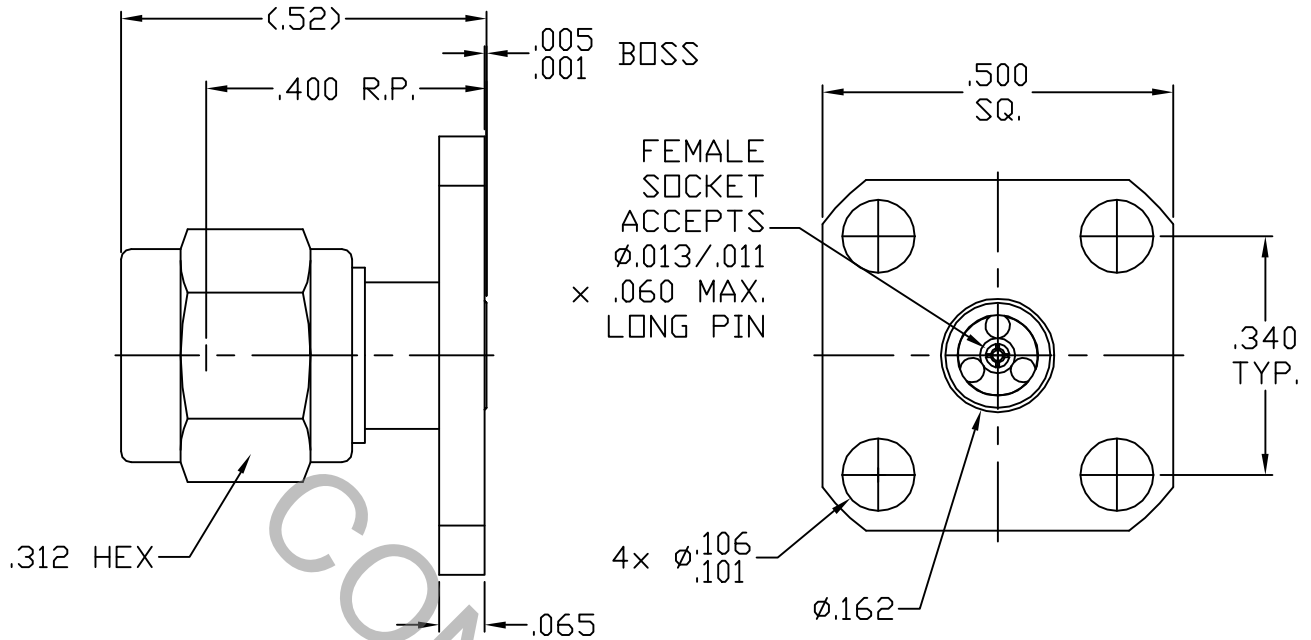


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR 2.9mm (SMK) PLUG per MIL-STD-348-323.1

## 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	HAVERHILL, MA. 01835
AA	02-0736	8/23/02	BN	DECIMALS    FRACTIONAL    ANGULAR $.XX^{+}.030$ $\pm 1/64$ $X \pm 1 \phi$ $.XX^{+}.010$ $X \times 5'$ $.XXX^{+}.005$	
BA	04-2332	11/11/04	DC		
				DRAWN: GE    DATE: 8/22/02	TITLE 2.9mm PLUG, 4 HOLE FLANGE MOUNT FOR .012 DIA. PIN
				APP.: BN    DATE: 8/23/02	
				CODE IDENT. 2J899	SHEET 1 OF 2 DWG. NO. 9454-0085-6212

# 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
RECOMMENDED 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	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

CONNECTOR BODY & C/NUT	PASSIVATE PER QQ-P-35A, TYPE I
CONTACT & SLEEVE	GOLD per ASTM-B-488, TYPE I, CODE C, CLASS 2.5 (.000100 Minimum Thickness) OVER NICKEL per QQ-N-290, CLASS 1 (.000050 Minimum Thickness) OVER COPPER per MIL-C-14550 (.000010 Minimum Thickness).
INSULATOR & GASKET	N/A