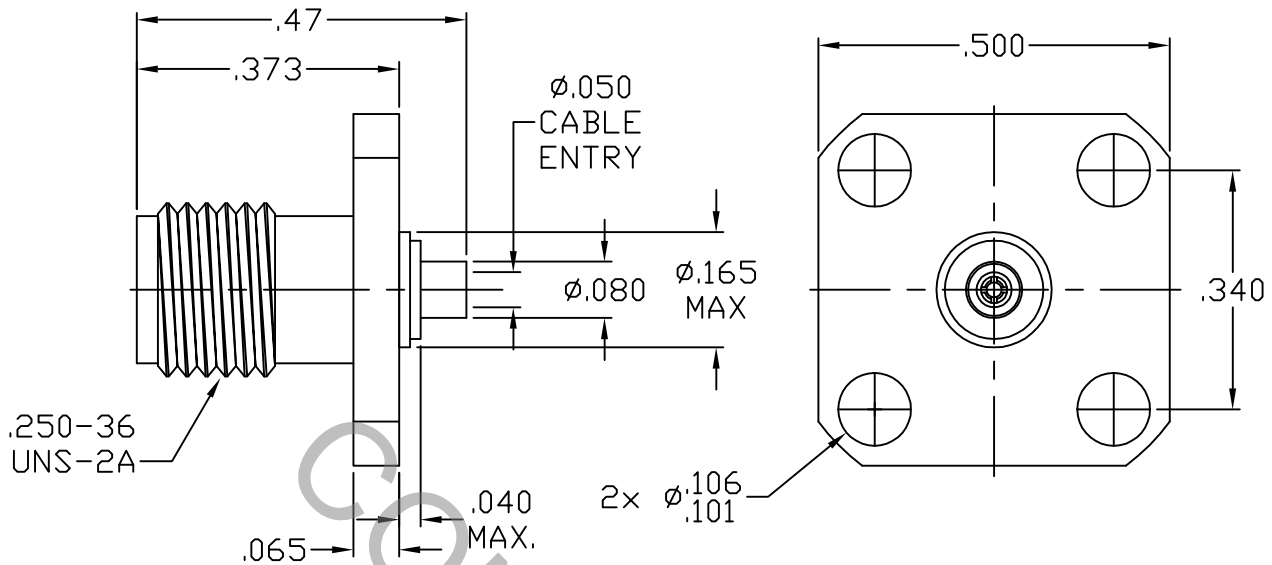


SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS FOR 2.9mm (SMK) JACK per MIL-STD-348-323.2

NOTE: NO NICKEL UNDERPLATE ON CONTACTS.

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)	_____	167
RF LEAKAGE (MIN. dB DOWN)	_____	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	_____	-65 °c TO + 125 °c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	_____	500
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

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 <small>INCORPORATED</small> HAVERHILL, MA. 01835	
AA	07-1780	8/6/07	DC	DECIMALS	FRACTIONAL	ANGULAR	TITLE 2.9mm JACK, 4 HOLE FLANGE, DIRECT SOLDER Ø.047 SEMI-RIGID	
				.X [±] .030 .XX [±] .010 .XXX [±] .005	± 1/64	X [±] 1°0' X°X' ±5'		
				DRAWN: DC	DATE: 8/6/07			
				APP.: DC	DATE: 8/6/07		DWG. NO. 9554-4725-6299	
				CODE IDENT.	SHEET 1 OF 2			
				2J899				

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.) (125 VRMS)

5. MATERIAL

CONNECTOR BODY & SLEEVE _____ STAINLESS STEEL PER ASTM-A-582, TYPE 303, COND. A

CONTACTS _____ BERYLLIUM COPPER PER ASTM-B-196-90, COPPER ALLOY UNS C17300, TEMPER TD04.

INSULATOR _____ PLASTIC COMPOSIT

6. FINISH

CONNECTOR BODY _____ PASSIVATE PER AMS QQ-P-35, TYPE 2

SLEEVE _____ 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.).

CONTACTS _____ GOLD per ASTM-B-488, TYPE I, CODE C, CLASS 1.25
(.000050 Min. Thk.) OVER COPPER PER MIL-C-14550
(.000040 Min. Thk.).

INSULATOR _____ N/A