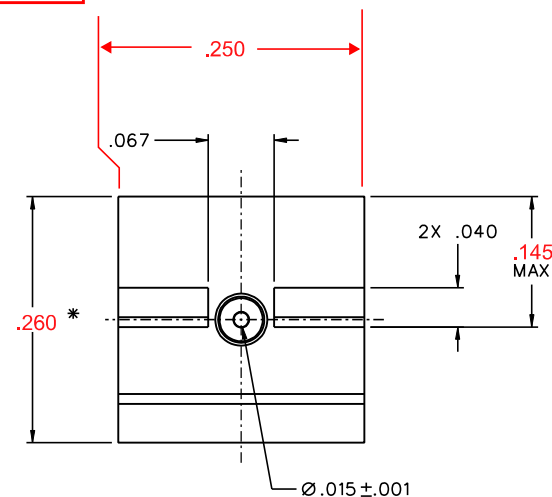


MODEL NUMBER

142-1721-881

REV 001 MARKUP
ECO 56952
D. CURTIS 2/22/18

MATERIAL & FINISH:
 BODY: GOLD PLATED BRASS
 CONTACT: GOLD PLATED BERYLLIUM COPPER
 INSULATOR: PTFE (TEFLON)

NOTES:

1. ELECTRICAL:

IMPEDANCE: 50 OHMS
 FREQUENCY RANGE: 0-26.5 GHz
 VSWR: 1.05+.02F(GHz) MAX AT 0-18 GHz, TYPICALLY < 1.50 AT 18-26.5 GHz
 WORKING VOLTAGE: 170 VRMS MAX AT SEA LEVEL
 DIELECTRIC WITHSTANDING VOLTAGE: 500 VRMS MIN AT SEA LEVEL
 INSULATION RESISTANCE: 1000 MEGOHM MIN
 CONTACT RESISTANCE:
 CENTER CONTACT - INITIAL 3.0 MILLIOHM MAX, AFTER ENVIRONMENTAL 4.0 MILLIOHM MAX
 OUTER CONDUCTOR - INITIAL 2.0 MILLIOHM MAX, AFTER ENVIRONMENTAL NOT APPLICABLE
 CORONA LEVEL: 125 VOLTS MIN AT 70,000 FEET
~~INSERTION LOSS: NOT APPLICABLE (DEPENDANT UPON APPLICATION)~~
~~RF LEAKAGE: NOT APPLICABLE~~
 RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 335 VRMS MIN AT 4 AND 7 MHz

MECHANICAL:

ENGAGE/DISENGAGE TORQUE: 2 INCH-POUNDS MAX
 MATING TORQUE: 7-10 INCH POUNDS WHEN BODY SUPPORTED WITH WRENCH
 * 8 INCH POUNDS MAX UNSUPPORTED
 CONTACT RETENTION: 6 LBS MIN AXIAL FORCE ON MATING END
 4 IN-OZ MIN RADIAL TORQUE
 DURABILITY: 500 CYCLES MIN

ENVIRONMENTAL:

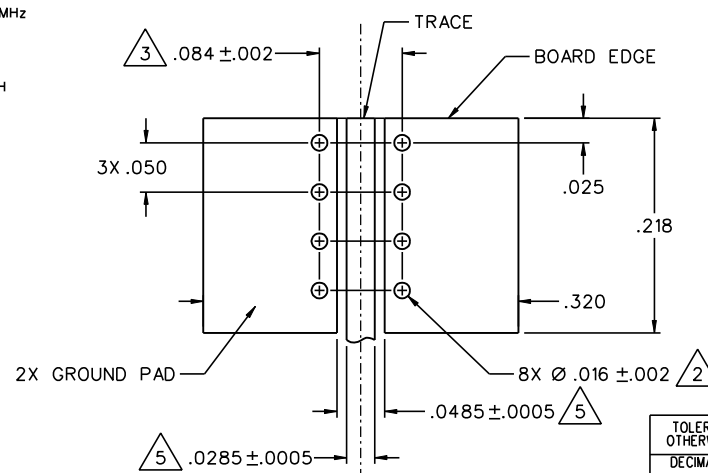
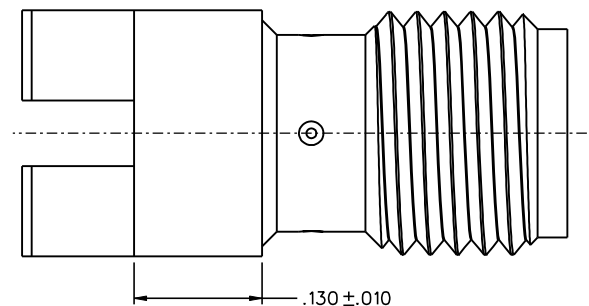
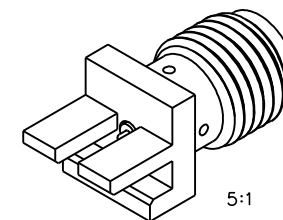
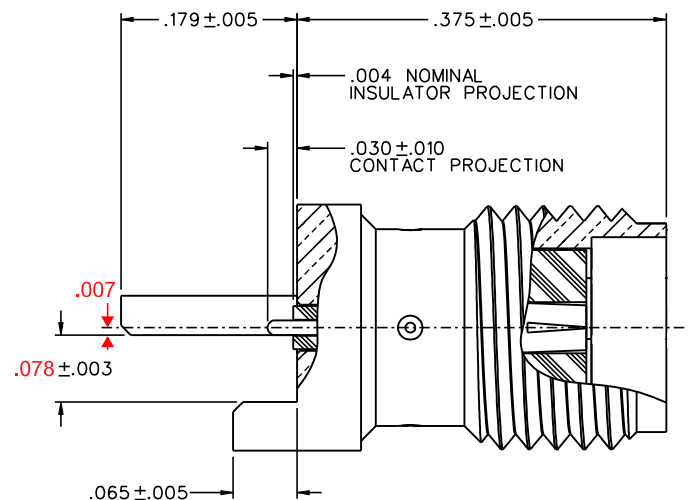
(MEETS OR EXCEEDS THE APPLICABLE PARAGRAPH OF MIL-PRF-39012)
 THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B, EXCEPT 115°C HIGH TEMP
 OPERATING TEMPERATURE: -65 DEG C TO 165 DEG C
 CORROSION: MIL-STD-202, METHOD 101, CONDITION B
 SHOCK: MIL-STD-202, METHOD 213, CONDITION I
 VIBRATION: MIL-STD-202, METHOD 204, CONDITION D
 MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

2. ALL HOLES PLATED THRU ENTIRE CIRCUIT BOARD STACKUP.

3. HOLE PATTERNS SYMMETRICAL ABOUT CENTER OF CPW TRACE.


4. FOR OPTIMUM CIRCUIT BOARD HIGH FREQUENCY PERFORMANCE:
 A. MAINTAIN SOLID GROUND PLANE BELOW HF SUBSTRATE.
 B. CONTROL PULLBACK OF TRACE AND GROUND FROM BOARD EDGE.
 C. CONTINUE GROUNDED COPLANAR LINE BEYOND GROUND PADS.
 D. PLACE 16 MIL DIA GROUND VIAS ON BOTH SIDES OF COPLANAR WAVEGUIDE LINE AT 50 MIL INTERVALS ALONG ENTIRE LENGTH.
 E. IMMERSION GOLD PLATE (ENIG) ALL CONDUCTORS PER IPC-4552.

5. REFERENCE DIMENSIONS FOR 50 OHM GROUNDED CPW LINE, USING ROGERS R04003, 16 MIL HIGH FREQUENCY CIRCUIT BOARD SUBSTRATE:
 TRACE WIDTH = 28.5 MILS
 GROUND GAPS = 10 MILS
 CONDUCTOR THICKNESS = 1.4 MIL (INCLUDES PLATING)



MOUNTING FOOTPRINT

10:1 (TOP VIEW, INCLUDING TRACE DIMENSIONS)

TOLERANCE UNLESS OTHERWISE SPECIFIED		DRAWN BY JRK		DATE 11-3-04		 <div>cinch CONNECTIVITY SOLUTIONS <small>a bel group</small></div>	P.O. Box 1732 Waseca, MN 56093 1-800-247-8256	
DECIMALS .XX	mm _____	CHECKED BY		DATE			TITLE HIGH FREQ END LAUNCH SMA JACK ASSEMBLY, EDGE MOUNT, 15 MIL PIN	
.XXX ±.003	_____	APPROVED BY JRK		DATE 12-15-04				
MATL _____	RELEASE DATE 12-15-04		SHEET 2 OF 2		DRAWING NO. C - 142-1721-881/890			
FINISH _____	U/M INCH SCALE 10:1							

Mouser Electronics

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