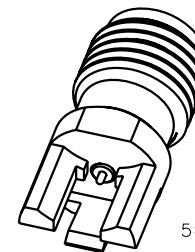
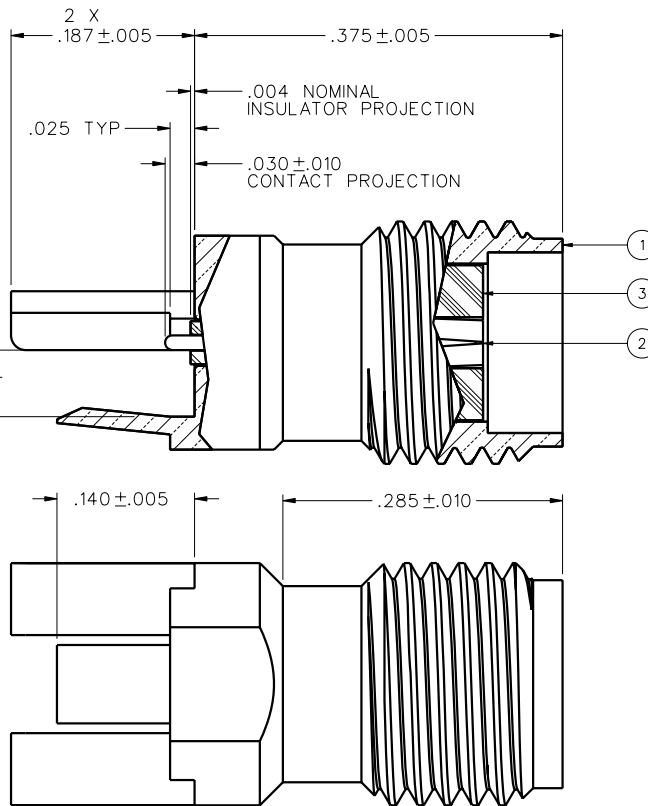
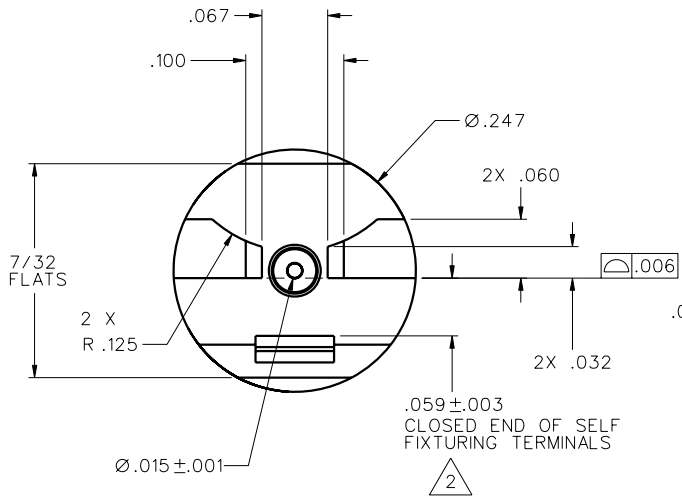


PART NUMBER	ITEM ① BODY	ITEM ② CONTACT	ITEM ③ INSULATOR
142-1701-821	BRASS GOLD PL .00001 MIN OVER NICKEL PL .0001 MIN OVER COPPER PL .00005 MIN	BERYLLIUM COPPER GOLD PL .00005 MIN OVER NICKEL PL .00005 MIN OVER COPPER PL .00005 MIN	TEFLON



NOTES:

1. SPECIFICATIONS:

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  
 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 1  
 VIBRATION: MIL-STD-202, METHOD 204, CONDITION D  
 MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

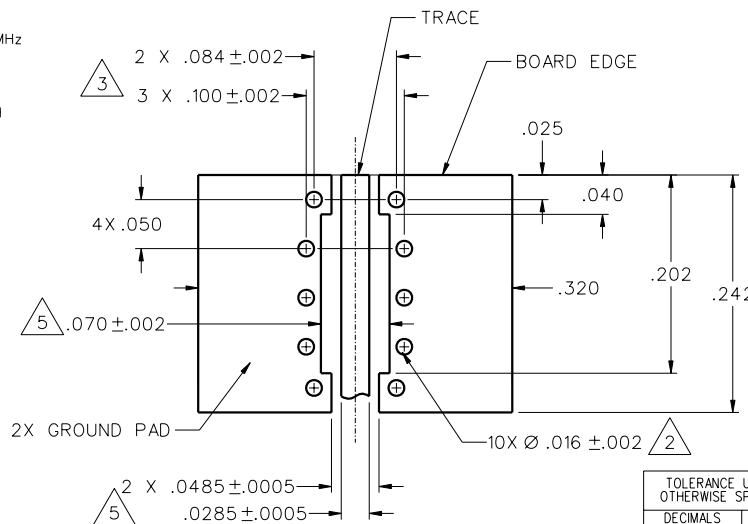
② ALL HOLES PLATED THRU ENTIRE CIRCUIT BOARD STACKUP.

③ HOLE PATTERNS SYMMETRICAL ABOUT CENTER OF CPW TRACE.

4. FOR OPTIMUM CIRCUIT BOARD HIGH FREQUENCY PERFORMANCE:  
 A. MAINTAIN SOLID GROUND PLANE BELOW HIGH FREQ 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 RO4003, 16 MIL HIGH FREQUENCY CIRCUIT BOARD SUBSTRATE:  
 TRACE WIDTH = 28.5 MILS  
 GROUND GAPS = 10 MILS  
 CONDUCTOR THICKNESS = 1.4 MIL (INCLUDES PLATING)

6. EMERSON NETWORK POWER CONNECTIVITY SOLUTIONS HIGH FREQUENCY END LAUNCH CONNECTORS AND SELF FIXTURE END LAUNCH CONNECTORS ARE COVERED UNDER US PATENT NUMBER 7,344,381 AND 7,500,855.



TRACE LAYOUT

10:1 (TOP VIEW)

DRAWING NO. C-142-1701-821/830

0 REVISIONS

CUSTOMER DRAWING

THIS DRAWING TO BE INTERPRETED PER ASME Y 14.5M - 1994

"μSTATION"

COMPANY CONFIDENTIAL

TOLERANCE UNLESS OTHERWISE SPECIFIED		DRAWN BY T.A.Kari	DATE 9-13-09	<b>Connectivity Solutions</b> P.O. Box 1732 Waseca, MN 56093 1-800-247-8256
DECIMALS .XX	mm	CHECKED BY	DATE	
.XXX ±.003		APPROVED BY X	DATE X	TITLE SMA JACK END LAUNCH, SELF FIXTURE, HIGH FREQUENCY .015 PIN, .016 CIRCUIT DIELECTRIC
MATL		RELEASE DATE	X	SHEET 2 OF 2
FINISH		U/M	INCH	DRAWING NO. C-142-1701-821/830
		SCALE	10:1	