

NOTES: UNLESS OTHERWISE SPECIFIED.

- 1. MATERIAL AND FINISH:
- 1.1 BODY & COUPLING NUT: GOLD PLATED BRASS
- 1.2 CONTACT: GOLD PLATED BERYLLIUM COPPER
- 1.3 INSULATOR: PTFE (TEFLON)
- 1.4 COUPLING SPRING: BERYLLIUM COPPER UNPLATED
- 2. ELECTRICAL SPECIFICATIONS:
- 2.1 IMPEDANCE: 50 OHMS
- 2.2 FREQUENCY: 0 26.5 GHz
- 2.3 VSWR: 1.05+.02F(GHz) MAX AT 0-18 GHz, <1.50 TYPICAL AT 18-26.5 GHz
- 2.4 WORKING VOLTAGE: 170 VRMS MAX AT SEA LEVEL
- 2.5 DIELECTRIC WITHSTANDING VOLTAGE: 500 VRMS MIN AT SEA LEVEL
- 2.6 INSULATION RESISTANCE: 1000 MEGOHMS MIN
- 2.7 CONTACT RESISTANCE:

CENTER CONTACT: INTIAL 3.0 MILLIOHM MAX,

AFTER ENVIRONMENTAL 4.0 MILLIOHM MAX

OUTER CONDUCTOR: INITIAL 2.0 MILLIOHM MAX, AFTER ENVIRONMENTAL - N/A

- 2.8 CORONA LEVEL: 125 VOLTS MIN AT 70,000 FEET
- 2.9 RF HIGH POTENTIAL WITHSTANDING VOLTAGE: 335 VRMS AT 4 & 7 MHz
- 3. MECHANICAL SPECIFICATIONS:
- 3.1 ENGAGE/DISENGAGE TORQUE: 2 INCH-POUNDS MAX
- 3.2 MATING TORQUE: 7-10 INCH-POUNS WHEN BODY SUPPORTED WITH WRENCH 8* INCH POUNDS MAX UNSUPPORTED
- 3.3 CONTACT RETENTION FORCE: 6 LBS MIN AXIAL FORCE ON MATING END 4 IN-OZ MIN RADIAL TORQUE
- 3.4 DURABILITY: 500 CYCLES MIN
- 4 ENVIRONMENTAL

(MEETS OR EXCEEDS THE APPLICABLE PARAGRAPH OF MIL-PRF-39012)

- 4.1 THERMAL SHOCK: MIL-STD-202, METHOD 107, CONDITION B, EXCEPT 115°C HIGH TEMP
- 4.2 OPERATING TEMPERATURE: -65°C TO 165°C
- 4.3 CORROSION: MIL-STD-202, METHOD 101, CONDITION B
- 4.4 SHOCK: MIL-STD-202, METHOD 213, CONDITION I
- 4.5 VIBERATION: MIL-STD-202, METHOD 204, CONDITION D
- 4.6 MOISTURE RESISTANCE: MIL-STD-202, METHOD 106

 $\sqrt{5}$ ALL HOLES PLATED THRU ENTIRE CIRCUIT BOARD STACKUP.

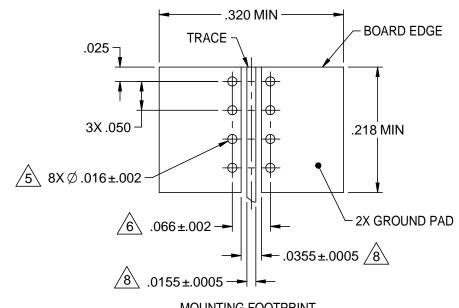
 $\stackrel{\frown}{6}$ HOLE PATTERNS SYMMETRICAL ABOUT CENTER CPW TRACE.

- 7. FOR OPTIMUM CIRCUIT BOARD HIGH FREQUENCY PERFORMANCE:
- 7.1 MAINTAIN SOLID GROUND PLANE BELOW HF SUBSTRATE.
- 7.2 CONTROL PULLBACK OF TRACE AND GROUND FROM BOARD EDGE.
- 7.3 CONTINUE GROUNDED COPLANAR LINE BEYOND GROUND PADS.7.4 PLACE 16 MIL DIA GROUND VIAS ON BOTH SIDE OF COPLANAR
- 7.4 PLACE 16 MIL DIA GROUND VIAS ON BOTH SIDE OF COPLANAR WAVEGUIDE LINE AT 50 MIL INTERVALS ALONG ENTIRE LENGTH.
- 7.5 IMMERSION GOLD PLATE (ENIG) ALL CONDUCTORS PER IPC-4552.

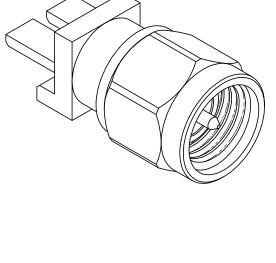
8. REFERENCE DIMENSIONS FOR 50 OHM GROUNDED CPW LINE, USING ROGERS R04003, 8 MIL HIGH FREQUENCY CIRCUIT BOARD SUBSTRATE: TRACE WIDTH: 15.5 MILS

GROUND GAPS: 10 MILS

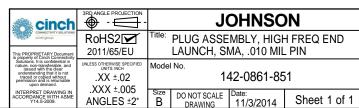
CONDUCTOR THICKNESS: 1.4 MIL (INCLUDES PLATING)







.499±.020



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cinch Connectivity Solutions: 142-0861-851