



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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

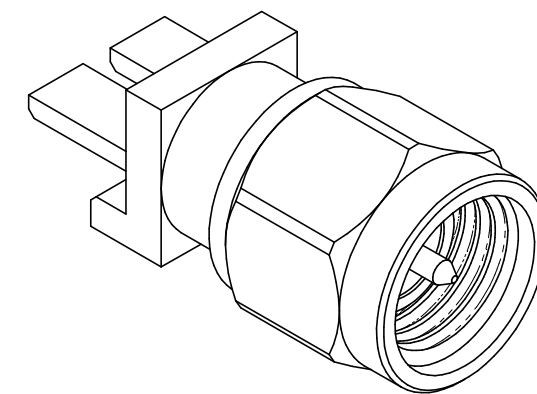
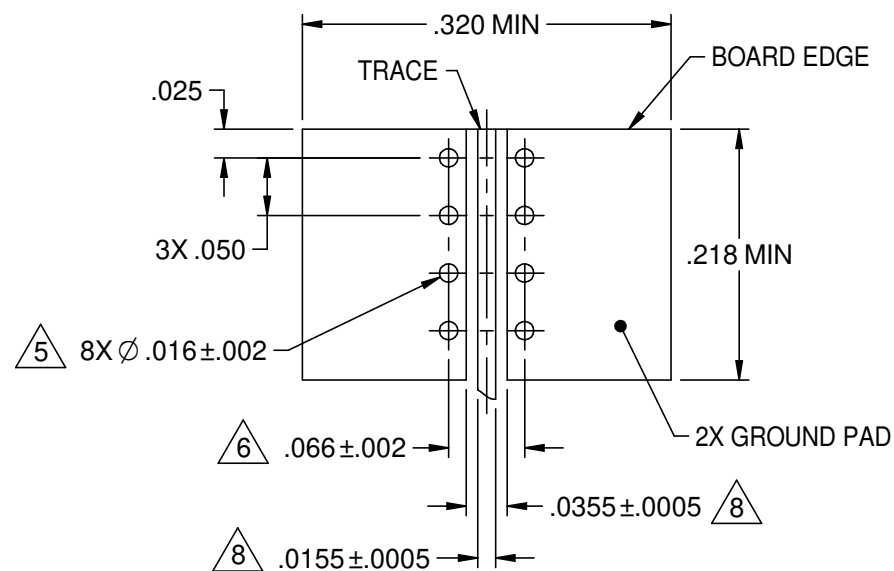
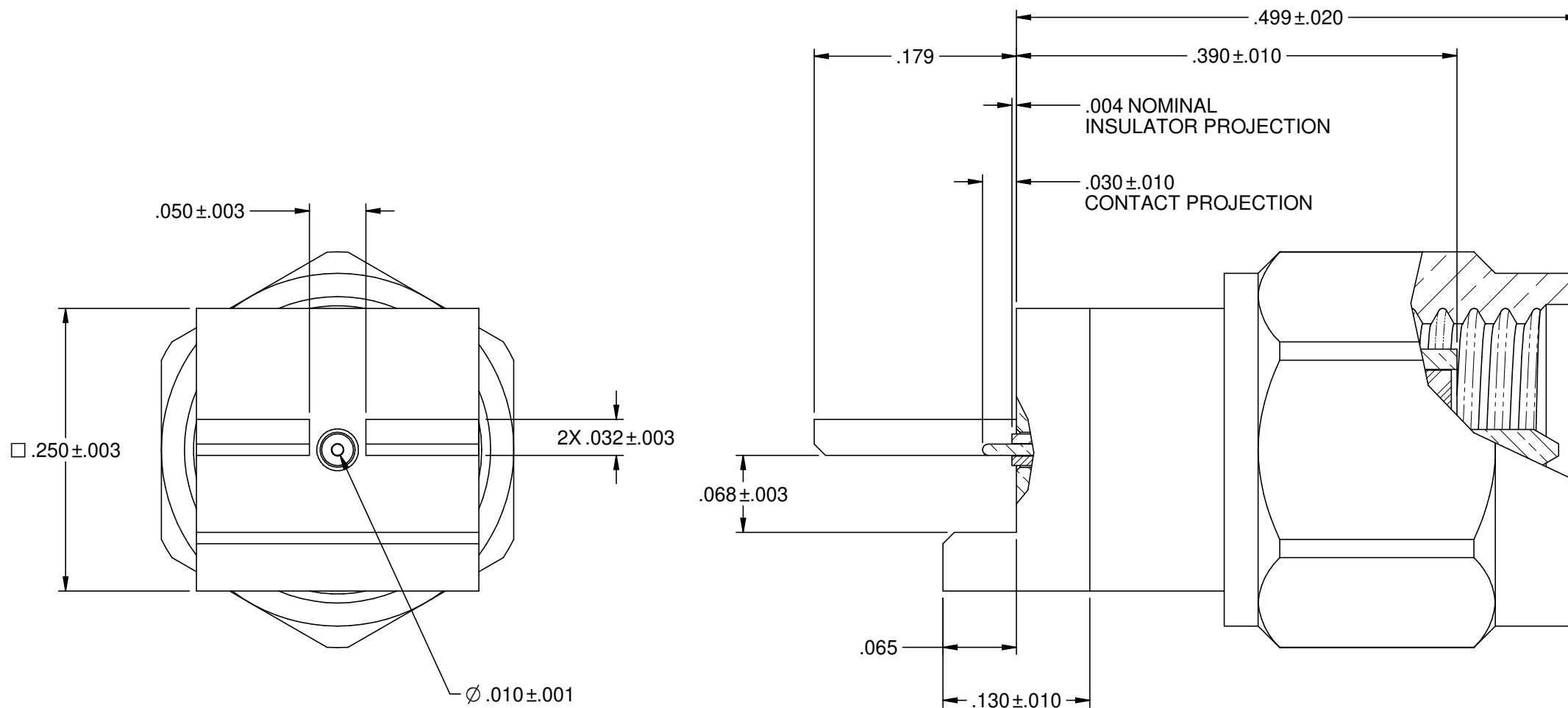
5. ALL HOLES PLATED THRU ENTIRE CIRCUIT BOARD STACKUP.

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 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)



	3RD ANGLE PROJECTION	<b>JOHNSON</b> Title: PLUG ASSEMBLY, HIGH FREQ END LAUNCH, SMA, .010 MIL PIN Model No. 142-0861-851
	RoHS2 <input checked="" type="checkbox"/> 2011/65/EU UNLESS OTHERWISE SPECIFIED .XX ±.02 .XXX ±.005 ANGLES ±2°	
INTERPRET DRAWING IN ACCORDANCE WITH ASME Y14.5-2009	Size B DO NOT SCALE DRAWING	Date: 11/3/2014 Sheet 1 of 1