



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!



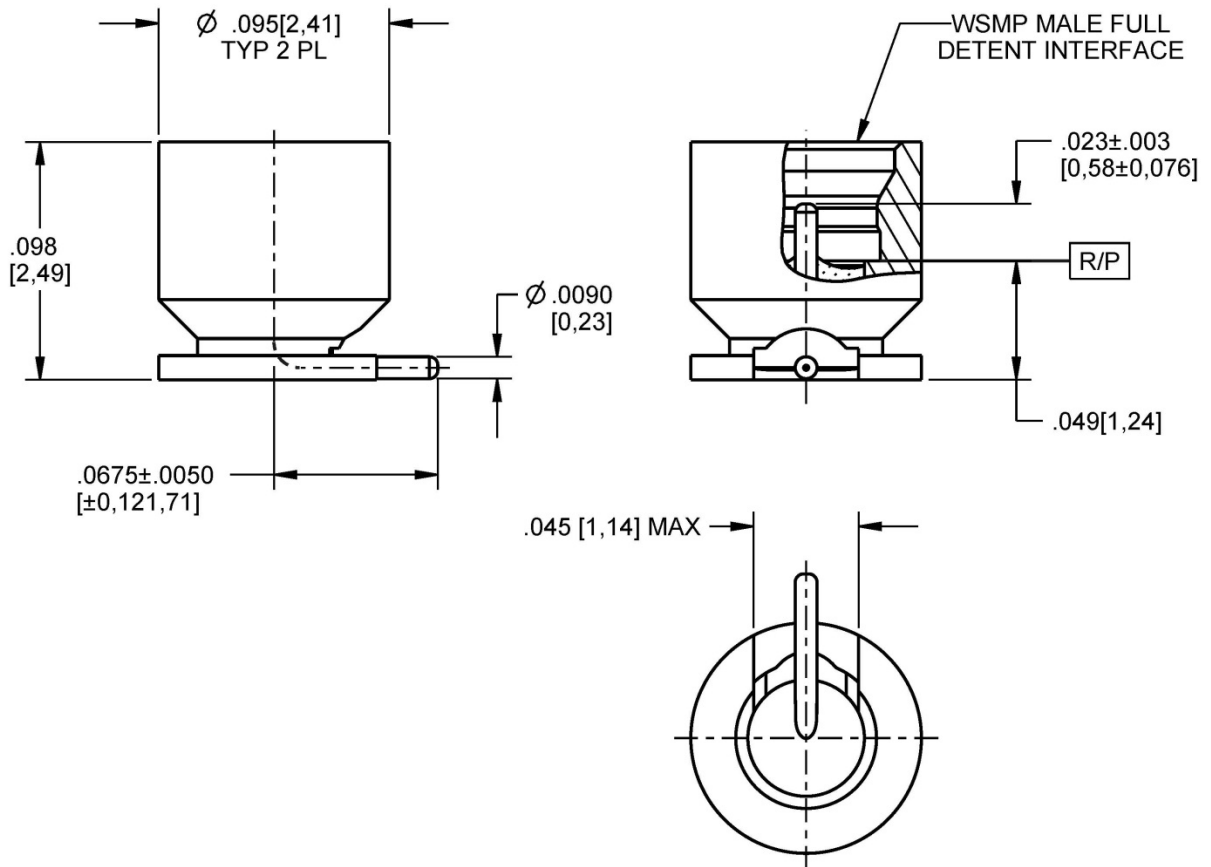
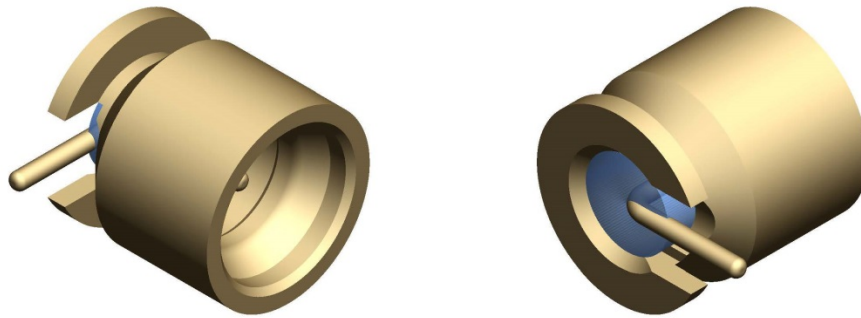
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All dimensions are in inches [mm]

Interface

According to

Rosenberger WSMP™ Interface standards

Material and plating

Connector parts

Body and contact

Material

Kovar® per ASTM F15

Plating

Hard gold 6µIN [0,15µm] min, over Nickel, 80µIN [2,0µm] min

Dielectric

Corning 7070 Glass

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WSMP

Male Full Detent
Right Angle Launch

W1S103-40ML5

Electrical data

Impedance	50 Ω
Frequency	DC to 80 GHz
Return loss (typical)*	≥ 26 dB, DC to 40 GHz ≥ 19 dB, 40 to 50 GHz ≥ 14 dB, 50 to 70 GHz
Insertion loss	≤ 0.12 x √f(GHz) dB
Insulation resistance	≥ 3.5 x 10 ³ MΩ
Center contact resistance	≤ 2.0 mΩ
Outer contact resistance	≤ 6.0 mΩ
Test voltage (at sea level)	250 V rms
RF High Potential (at sea level)	150 V rms @ 5 MHz
RF-leakage	≥ -80 dB (typical mated pair)

* Connector only, return loss in application depends decisively on PCB layout

Mechanical data

Mating cycles	
- Full Detent	≥ 100
Engagement force (typical)	
- Full Detent	2.5 lb _f [11 N]
Disengagement force (typical)	
- Full Detent	4.5 lb _f [20 N]

Environmental data

Temperature range	-55°C to +165°C
Thermal shock	MIL-STD-202, Method 107, Condition B
Corrosion	MIL-STD-202, Method 101
Vibration	MIL-STD-202, Method 204, Condition D
Shock	MIL-STD-202, Method 213, Condition I
Moisture resistance	MIL-STD-202, Method 106, except Step 7B
Max soldering temperature	IEC 61760-1, +500°F [+260°C] for 10 seconds
2002/95/EC (RoHS)	compliant

Tooling

Extraction tool	N/A
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Suitable cables

N/A

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RF_35/05.10/6.0

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
R. Fisher	6/30/16	R. Hosler	6/30/16	a00	ECN 17-1092	J. Havener	6/27/17
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