

Invisipin® Datasheet

5502-14-0032

0.50mm x 0.50mm

0.80mm (0.032inch) Minimum Pitch

- ✓ Pick and Place / Solder Reflow Compatible
- ✓ Infinitely Configurable
- ✓ Individually Replaceable
- ✓ 100% Electrically Tested

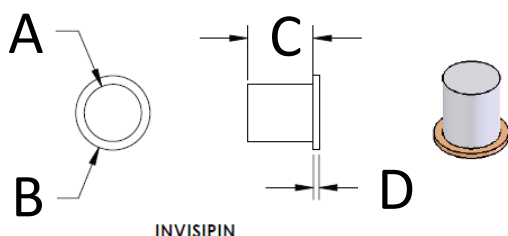


Typical Performance Specifications (0.80mm Pitch, 25C unless noted):

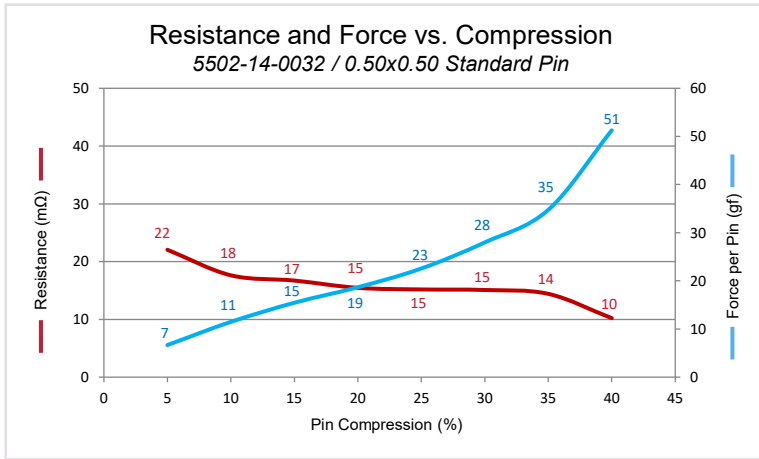
- Typical DC Contact Resistance is <25 mΩ
- DC Contact Resistance Deviation over Compliance Range: <15 mΩ
- 2 Amp (Continuous)
- Force <30g @ 30% column compression
- RF Loss @ 20GHz : <0.1db (Coax, 1 pin), <0.36db (Coax, 2 pins + substrate)
- RF Loss @ 50GHz : <0.45db (Coax, 1 pin)
- 1/2 Loop Inductance: 81pH

Single Pin Characteristics

Part Number	Description	Minimum Pitch (mm)	Maximum Compression (mm)	Force @ Max Compression (g/p)
5502-14-0032	0.50mm x 0.50mm	0.80	0.20	49



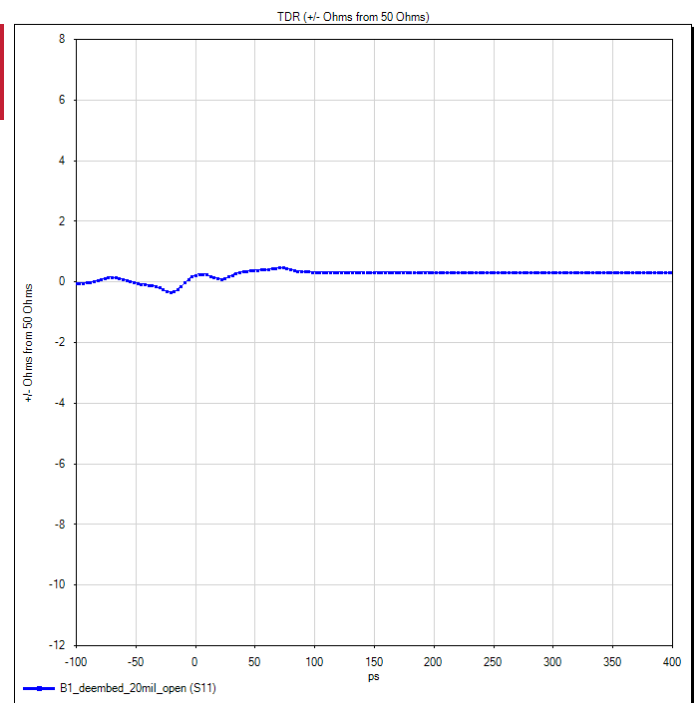
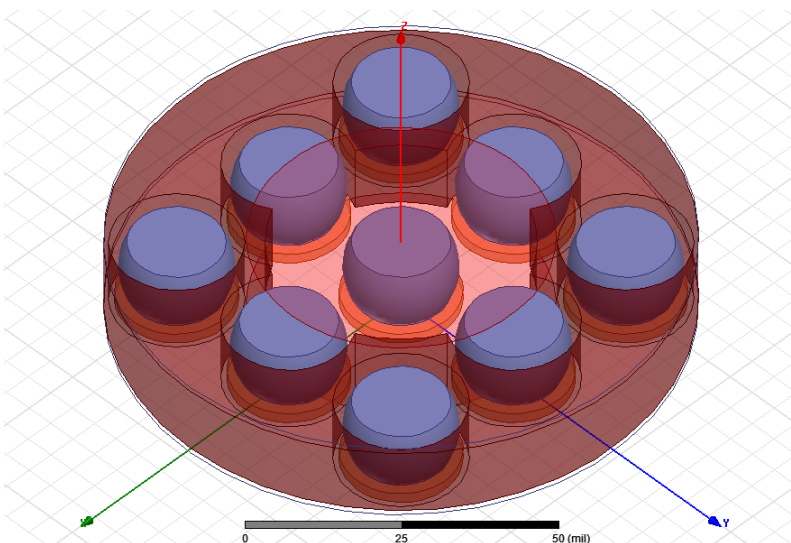
A	B	C	D
Elastomer Diameter (mm)	Flange Diameter (mm)	Elastomer Height (mm)	Flange Height (mm)
0.50	0.56	0.50	0.038



Continuous Current Rating (A)		
	25C	125C
Minimum Compression	2.0	2.0
Maximum Compression	2.0	2.0

3x3 Pin Characteristics		Value Determination
Time delay	3.26 ps	Inverse Fast Fourier Transform on S21
Loop inductance	0.162 nH	$L = Z_o * t_d$
Open circuit capacitance	66.6 fF	$C = t_d / Z_o$
S21 Insertion loss	0.14 dB @ 40 GHz	De-embedded measurement
S11 Return loss	34 dB @ 40 GHz	De-embedded measurement
Impedance	49.7 Ohms	TDR - Inverse Fast Fourier Transform on S11

Pin Configuration for Measurement 0.508mm Compression Stop Height



S-Parameters - S2P files available

