

Double-Ended

Wireless Test Receptacles

Specialty Test Products



Board Test Spring Probes

Smiths Interconnect offers a wide range of spring contact probes to meet your testing requirements and has long been recognized as the world's largest probe manufacturer. With over 60 different probe series that includes our standard Board Test Fixture Probes as well as our Specialty Test Probes, we provide a full portfolio designed for general purpose test on bare boards, loaded printed circuit boards, surface mount assemblies and other forms of test.



MICRO SERIES PROBES

The Micro probe series range in pitch from 0.20" (0.51 mm) to 0.030" (0.76 mm) pitch and are typically between half an inch to an inch in length.

ROTATOR PROBES

Ideal for non-clean and lead-free applications, this aggressive probe rotates 90° at the rated travel, virtually drilling through contaminants with a low spring force.

STANDARD PROBES

Our standard probes range in pitch from 0.039" (1.00 mm) to 0.187" (4.75 mm). Within most series, there are multiple length and travel options, including more aggressive probes dimensionally equivalent to the standard probes.

HIGH CURRENT PROBES

We offer two different high current probe designs in four different pitches. The SH series features a bias ball, which is the most aggressive biasing technique to aid in assuring a low and consistent resistance, cycle after cycle. The SHE Series features a bias spring, an effective biasing technique for many applications.

DOUBLE-ENDED PROBES & RECEPTACLES

Double-ended probes feature both a top-side and bottom-side compliant plunger. Double-ended receptacles are available with a permanent bottom-side plunger and a replaceable probe on the top side. They are also available with both a top and bottom-side replaceable probe.

SWITCH PROBES

A Switch Probe is a spring contact probe and receptacle that has two individual current paths. One current path is closed, the other is open and after a designated travel the second current path closes.

LEAD FREE PROBES

The Lead Free probe series is based on our ICT Probe Series. The plunger material, plating and tip geometry have been optimized to provide less wear and contamination build-up while using a moderate spring force of 7 to 8 ounces.

THERMOCOUPLE PROBES

The Thermocouple Probe is an ungrounded, thermally conductive probe used for the measurement of variations in temperature. We offer two Thermocouple Probes: Type T for up to 220°F, and Type K for up to 350°F.

ICT PROBES

The ICT probe design features a bifurcated barrel with four separate fingers. The barrel is compliant and formed against the plunger, thus eliminating any gap between the plunger and barrel. ICT probes are more accurate and stable in resistance than standard designs.

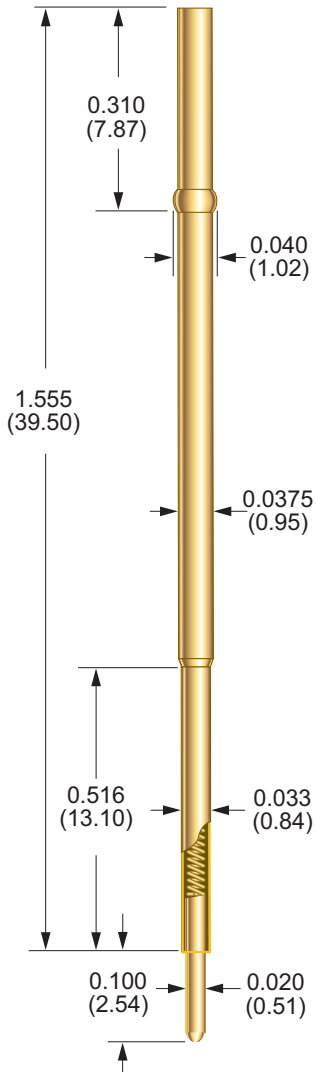
COAXIAL PROBES



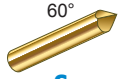

Our Coax Probes provide a low noise, controlled impedance signal path with reliable, easy connect/disconnect options. Our designs include a spring-loaded signal probe and a spring-loaded shielding plunger for the ground.

R-50C-J-DE Series

0.050 (1.27) Centers | Wireless Receptacle

Mates with ICT-50C/S-50C Series Probes (0.050" Centers)



BeCu Tips	Diameter
 J	0.020 (0.51) 
 S	0.020 (0.51) 

Probe Specifications

Minimum Centers	0.050 (1.27)
Drill Size	#61
Mounting Hole Size	0.0385/0.0390 (0.98/0.99)
Spring Force	2.70 oz (77 g) @ 0.069 (1.75) travel
Maximum Travel	0.100 (2.54)
Working Travel	0.070 (1.77)

Materials

Receptacle	Beryllium copper, gold plated
Spring	Music wire, gold plated
Plunger	Beryllium copper, gold plated over nickel

Tools

Insertion Tool	RT-50
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How to Order

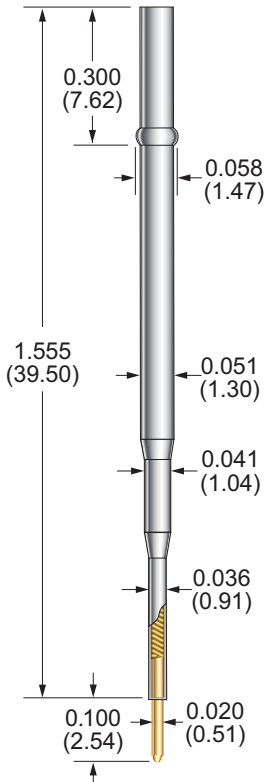
R - 50C - J - DE
1 2 3 4

1 Series	R
2 Size	50C
3 Tip Style	J, S
4 Termination	DE Double-Ended



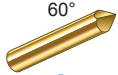

R-075-J-DE Series

0.075 (1.91) Centers | Wireless Receptacle

Mates with ICT-075/S-075, ICT-075 Lead Free Series or ICT-L075 Series Probes (0.075" Centers)



BeCu Tips Diameter

 J	0.020 (0.51)	
 S	0.020 (0.51)	

Probe Specifications

Minimum Centers	0.075 (1.91)
Drill Size	1.45 mm
Mounting Hole Size	0.055/0.057 (1.40/1.45)
Spring Force	2.70 oz (77 g) @ 0.070 (1.77) travel
Maximum Travel	0.100 (2.54)
Working Travel	0.070 (1.77)

Materials

Receptacle	Nickel/silver, gold lined inside
Spring	Music wire, gold plated
Plunger	Beryllium copper, gold plated over nickel

TOOLS

Insertion Tool	RT-1
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How to Order

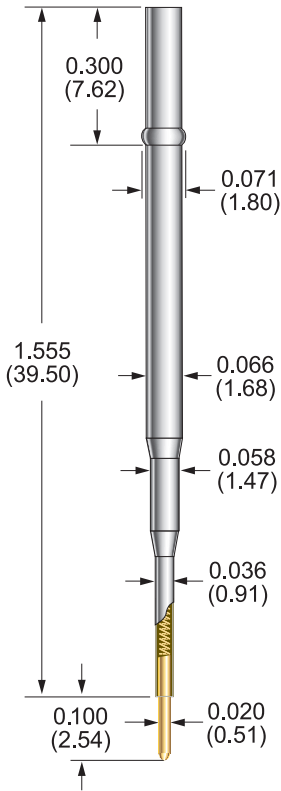
R - 075 - J - DE
1 2 3 4

1 Series	R
2 Size	075
1 Tip Style	J, S
2 Termination	DE Double Ended



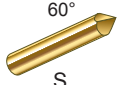

R-100-J-DE Series

0.100 (2.54) Centers | Wireless Receptacle

Mates with ICT-100/S-100 Series, ICT-100 Lead Free or ICT-L100 Series Probes (0.100" Centers)



BeCu Tips Diameter

 <p>J</p>	<p>0.020 (0.51)</p> 
<p>60°</p>  <p>S</p>	<p>0.020 (0.51)</p> 

Probe Specifications

Minimum Centers	0.100 (2.54)
Drill Size	#50
Mounting Hole Size	0.068/0.070 (1.73/1.78)
Spring Force	2.70 oz (77 g) @ 0.070 (1.77) travel
Maximum Travel	0.100 (2.54)
Working Travel	0.070 (1.77)

Materials

Receptacle	Nickel/silver, gold lined inside
Spring	Music wire, gold plated
Plunger	Beryllium copper, gold plated over nickel

TOOLS

Insertion Tool	RT-100
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How to Order

R - 100 - J - DE
1 2 3 4

1 Series	R
2 Size	100
1 Tip Style	J, S
2 Termination	DE Double Ended

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