Kelvin Contact Solution

The term Kelvin Contact is derived from the English physicist Lord Kelvin who invented the Kelvin Bridge in 1861. The Kelvin Bridge is used to measure unknown electrical resistors below 1 ohm and is a modification of the Wheatstone bridge. The Kelvin contact solution by C.C.P. is using one of the pins to measure the current while the other is adjusting the applied voltage. As with all our products our engineers will adjust the product according to your specific needs.

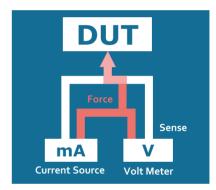
Design Concept

Kelvin Contact

Kelvin Contact is mostly used to test specific electrical signal, as well as be the route of current bypass when testing. C.C.P. innovated several types of kelvin pin to meet market demands.

0.07~0.10mm

Available in 70um~100um kelvin gap, we can precisely contact to ball/ pad



Different type of tip for various application



Blade Tip Lac

Ladder Tip Half moon Tip

on Tip Crown Tip

Kelvin Socket	Specification
ІС Туре	QFN,QFP,BGA
IC Size	2X2~20X20 mm²
Min. Pitch	o.30mm
Life Time (Pin)	>200,000

Blade: Common tip type for kelvin testing Ladder: Similar with blade type but would be more accurate on positioning Half moon: Mostly applied in QFN, QFP Crown: No need to be aware of the direction when manufacture the socket and pin inserting since each claw can perfectly prick on testing area



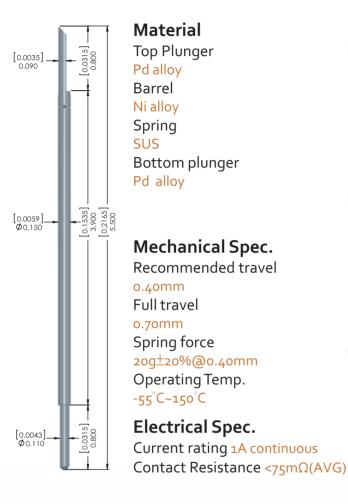


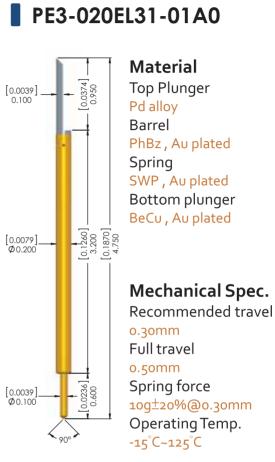
Unit:mm; []:in

Kelvin contact Solution

Probe Specification

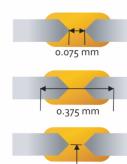
PE3-015DL38-01A0





Electrical Spec. Current rating 2A continuous Contact Resistance $<_{75m}\Omega(AVG)$



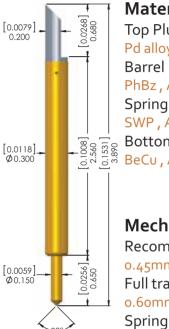


0.4 mm

Pin Array



Probe Specification PE3-030EL25-01A0



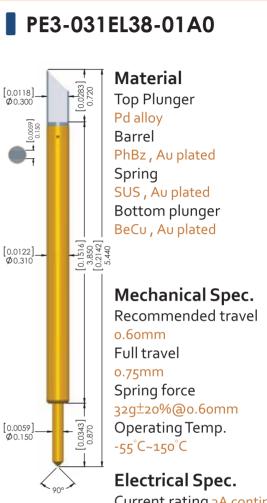
Material Top Plunger Pd alloy Barrel PhBz , Au plated Spring SWP , Au plated Bottom plunger BeCu , Au plated

Mechanical Spec. Recommended travel

o.45mm Full travel o.60mm Spring force 25g±20%@0.45mm Operating Temp. -15°C~125°C

Electrical Spec.

Current rating 3A continuous Contact Resistance $<75m\Omega(AVG)$



Current rating <u>3A continuous</u> Contact Resistance <<u>75mΩ(AVG</u>)

Unit:mm; []:in

Blade Kelvin Socket Example

