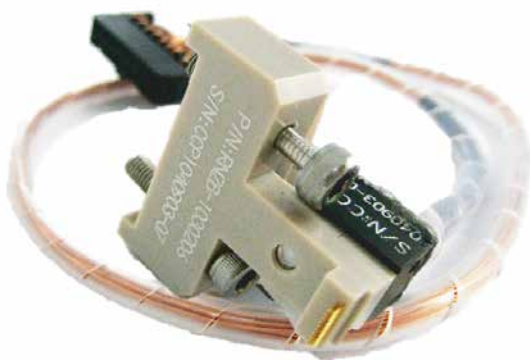


Panel Test

Most electronic devices use displays to interact with the user. Those displays are often fragile which requires appropriate testing solutions. Pogo pins are especially suitable for this type of application due to their customized tip, which protects the DUT from scratches.

Design Concept

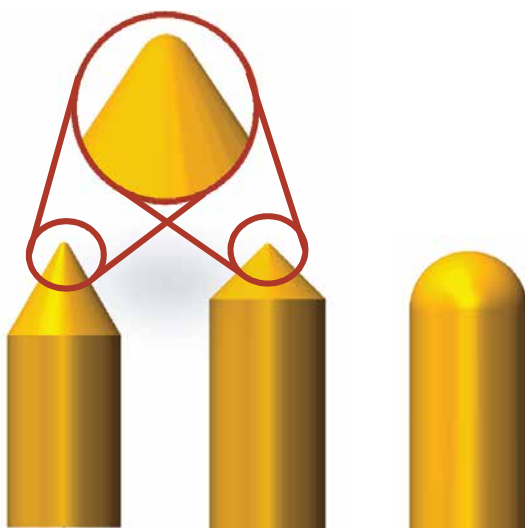


Panel Pin Housing

Panel Test Housing

The housing is installed on a test head which contacts the panel directly. To protect the panel from damage, the head is rounded which prevents scratching of the panel surface.

Panel Pin Housing	Specification
Min. Pitch	0.45 mm
Panel Size	50"~85"
Housing Material	Peek
Life Time (Pin)	>200,000



B type

E type

D type

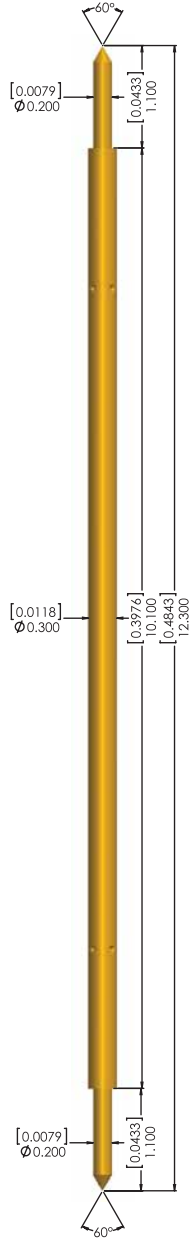
Panel Pin Head Type

A conical tip is able to puncture oxide layers and has a low chance to leave scratches on the display. We usually recommend the D type for panel tests, to eliminate the chance of scratches.

Probe Specifications

Unit:mm; []:in

DE1-030BB10-01A0



Material

- Top Plunger: Sk₄, Au plated
- Barrel: PhBz, Au plated
- Spring: SWP, Au plated
- Bottom Plunger: Sk₄, Au plated

Mechanical Spec.

- Recommended Travel: 1.25mm
- Full Travel: 1.90mm
- Spring Force: 20g±20%@1.25mm
- Operating Temp.: -15°C~125°C

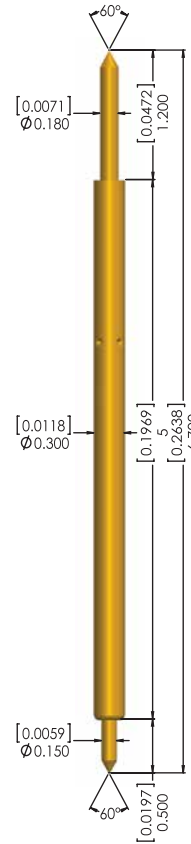
Electrical Spec.

Pitch: 0.4mm Socket Material: Peek 1000



- Current Rating: 1A continuous
- Contact Resistance: <175mΩ(AVG)
- Characteristic Impedance: 67Ω
- Insertion Loss: -1dB@3.34GHz
- Return Loss: -20dB@0.87GHz
- Time Delay: 67.01 psec
- Loop Inductance: 4.49 nH
- Capacitance: 1 pF

DE1-030BB50-01A0



Material

- Top Plunger: Sk₄, Au plated
- Barrel: PhBz, Au plated
- Spring: SWP, Au plated
- Bottom Plunger: BeCu, Au plated

Mechanical Spec.

- Recommended Travel: 0.65mm
- Full Travel: 1.00mm
- Spring Force: 13g±20%@0.65mm
- Operating Temp.: -15°C~125°C

Electrical Spec.

Pitch: 0.4mm Socket Material: Peek 1000

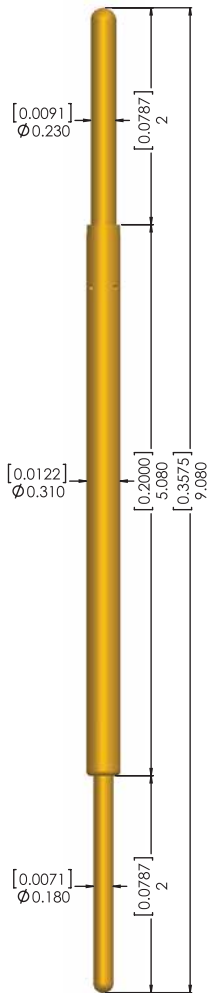


- Current Rating: 1A continuous
- Contact Resistance: <175mΩ(AVG)
- Characteristic Impedance: 45Ω
- Insertion Loss: -1dB>20GHz
- Return Loss: -20dB@3.35GHz
- Time Delay: 32.8 psec
- Loop Inductance: 1.48 nH
- Capacitance: 0.73 pF

Probe Specifications

Unit:mm; []:in

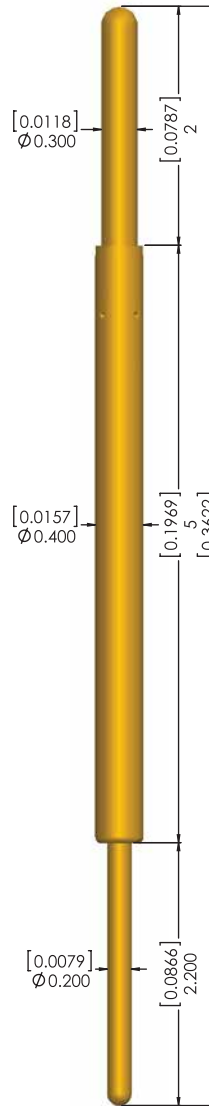
DE3-031DD50-01A0



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

Mechanical Spec.
 Recommended Travel
 1.00mm
 Full Travel
 2.00mm
 Spring Force
 20g±20%@1.00mm
 Operating Temp.
 -15°C~125°C

DE3-040DD50-01A0



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

Mechanical Spec.
 Recommended Travel
 1.00mm
 Full Travel
 2.00mm
 Spring Force
 20g±20%@1.00mm
 Operating Temp.
 -15°C~125°C

Electrical Spec.



Pitch: 0.4mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 41.54 Ω
 Insertion Loss -1dB@14.66GHz
 Return Loss -20dB@2.03GHz
 Time Delay 42.37 psec
 Loop Inductance 1.76 nH
 Capacitance 1.02 pF

Electrical Spec.



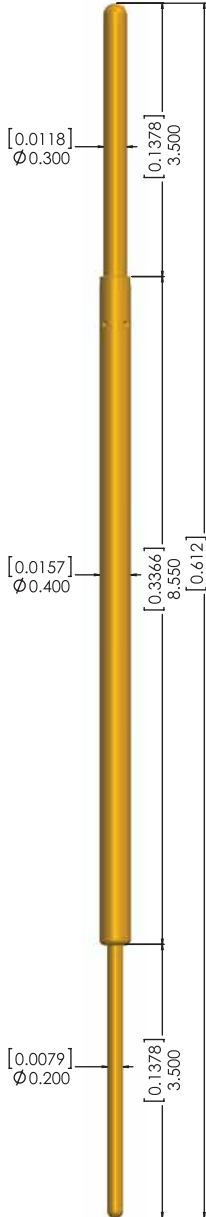
Pitch: 0.5mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 42.13 Ω
 Insertion Loss -1dB@10.93GHz
 Return Loss -20dB@2.05GHz
 Time Delay 46.76 psec
 Loop Inductance 1.97 nH
 Capacitance 1.11 pF

Probe Specifications

Unit:mm; []:in

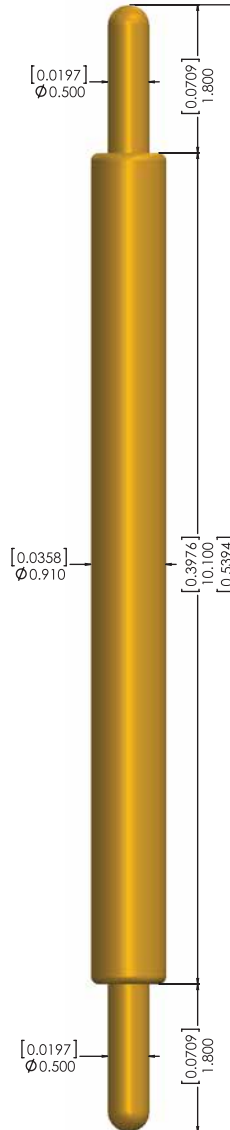
DE3-040DD85-01A0



Material
 Top Plunger
 BeCu , Au plated
 Barrel
 PhBz , Au plated
 Spring
 SUS, Au plated
 Bottom Plunger
 BeCu , Au plated

Mechanical Spec.
 Recommended Travel
 2.50mm
 Full Travel
 3.00mm
 Spring Force
 20g±20%@2.50mm
 Operating Temp.
 -55°C~150°C

DE1-091DD10-01A0



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

Mechanical Spec.
 Recommended Travel
 2.00mm
 Full Travel
 3.00mm
 Spring Force
 20g±20%@2.00mm
 Operating Temp.
 -15°C~125°C

Electrical Spec. **G S G**

Pitch: 0.5mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 40 Ω
 Insertion Loss -1dB@6.08GHz
 Return Loss -20dB@1.06GHz
 Time Delay 74.8 psec
 Loop Inductance 3 nH
 Capacitance 1.87 pF

Electrical Spec. **G S G**

Pitch: 1.0mm Socket Material: Peek 1000

Current Rating 2A continuous
 Contact Resistance <175mΩ(AVG)
 Characteristic Impedance 24.2Ω
 Insertion Loss -1dB@1.52GHz
 Return Loss -20dB@0.28GHz
 Time Delay 72.6 psec
 Loop Inductance 1.76 nH
 Capacitance 3 pF