

General Final Test

C.C.P. has over 25 years of experience in the development and manufacturing of sockets and pins. Our research and development teams are constantly improving the materials and manufacturing process to offer our customers the best solutions. We have developed more than 300 customized pins and over 50 special pins that are designed to withstand high currents, high-temperature environments or can handle high frequency data transmission.

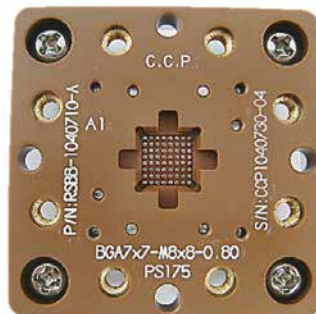
Design Concept

Applied IC package
BGA, QFN, QFP, LGA, CSP

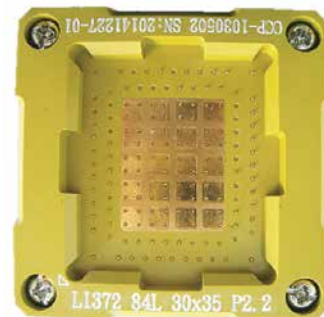
Pitch
0.2~2.2mm



QFN Socket
Pitch 0.3mm



BGA Socket
Pitch 0.8mm



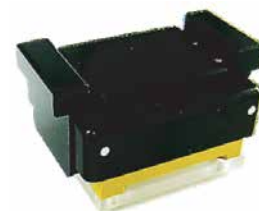
LGA Socket
Pitch:2.2mm

| General IC Test Socket | Specification |
|------------------------|--|
| IC Package Size | 1.5X1.5~38X38 mm ² |
| Min. Pitch | 0.2mm |
| Material | Torlon 4203, Torlon 5530, PEEK, PEEK ceramic, SCP 5000 |
| Data Rate | 6 Gpbs/ 8 Gpbs/ 12 Gpbs <small>Performance will be different according to testing condition</small> |
| Life Time (Pin) | >200K |

Lid



Knob



Block

Probe Specifications

Unit:mm; []in

Pitch 0.2

Pitch 0.3

Pitch 0.4

Pitch 0.5

Pitch 0.6

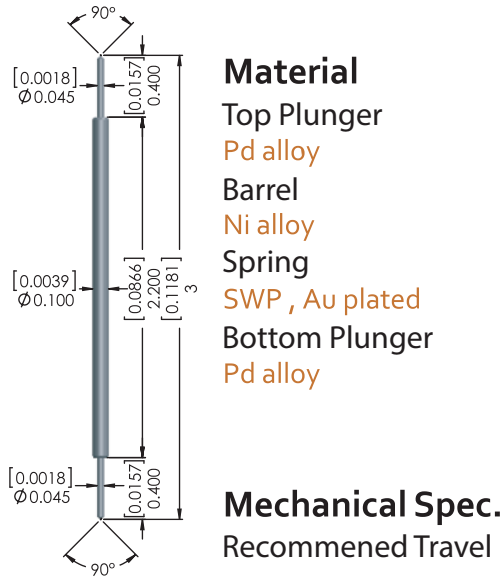
Pitch 0.65

Pitch 0.8

Pitch 1.0

Pitch 1.27

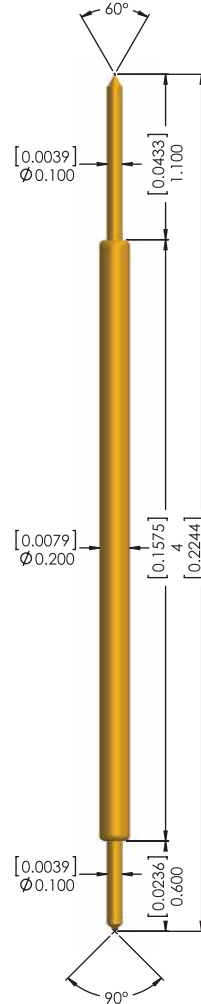
PE1-010EE22-01A0



Material
 Top Plunger
 Pd alloy
 Barrel
 Ni alloy
 Spring
 SWP, Au plated
 Bottom Plunger
 Pd alloy

Mechanical Spec.
 Recommended Travel
 0.35mm
 Full Travel
 0.50mm
 Spring Force
 79±20%@0.35mm
 Operating Temp.
 -15°C~125°C

DE1-020BE40-01A0



Material
 Top Plunger
 SK4, Au plated
 Barrel
 PhBz, Au plated
 Spring
 SWP, Au plated
 Bottom Plunger
 SK4, Au plated

Mechanical Spec.
 Recommended Travel
 0.60mm
 Full Travel
 0.90mm
 Spring Force
 129±20%@0.60mm
 Operating Temp.
 -15°C~125°C

Electrical Spec. **G S G**

Pitch: 0.2mm Socket Material: Peek 1000

Current Rating 0.6A continuous
 Contact Resistance <300mΩ(AVG)
 Characteristic Impedance 80.8Ω
 Insertion Loss -1dB@9.9GHz
 Return Loss -20dB@2.48GHz
 Time Delay 13.74 psec
 Loop Inductance 1.11 nH
 Capacitance 0.17 pF

Electrical Spec. **G S G**

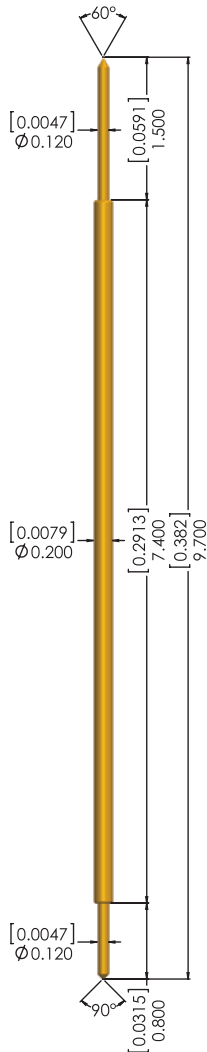
Pitch: 0.3mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <200mΩ(AVG)
 Characteristic Impedance 55.9Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@12.88GHz
 Time Delay 26.83 psec
 Loop Inductance 1.5 nH
 Capacitance 0.48 pF

Probe Specifications

Unit:mm; []in

DE1-020BE74-01A0

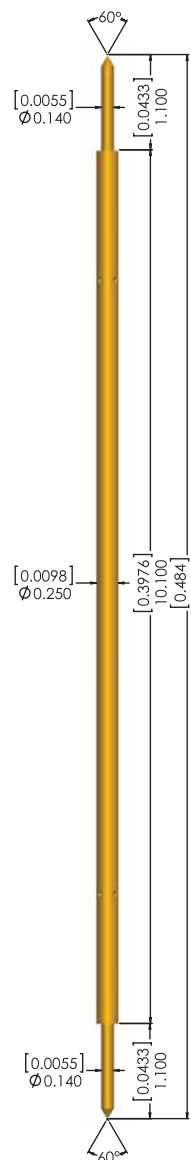


Material
 Top Plunger
 BeCu, Au plated
 Barrel
 PhBz, Au plated
 Spring
 SWP, Au plated
 Bottom Plunger
 BeCu, Au plated

Mechanical Spec.
 Recommended Travel
 0.80mm
 Full Travel
 1.30mm
 Spring Force
 6g±20%@0.80mm
 Operating Temp.
 -15°C~125°C

Electrical Spec. **G S G**
 Pitch: 0.3mm Socket Material: Peek 1000
 Current Rating 0.5A continuous
 Contact Resistance <200mΩ(AVG)
 Characteristic Impedance 53.07Ω
 Insertion Loss -1dB >20GHz
 Return Loss -20dB@8.14GHz
 Time Delay 46.17psec
 Loop Inductance 2.45 nH
 Capacitance 0.87 pF

DE1-025BB10-02A0



Material
 Top Plunger
 SK4, Au plated
 Barrel
 PhBz, Au plated
 Spring
 SWP, Au plated
 Bottom Plunger
 SK4, Au plated

Mechanical Spec.
 Recommended Travel
 1.45mm
 Full Travel
 2.20mm
 Spring Force
 30g±20%@1.45mm
 Operating Temp.
 -15°C~125°C

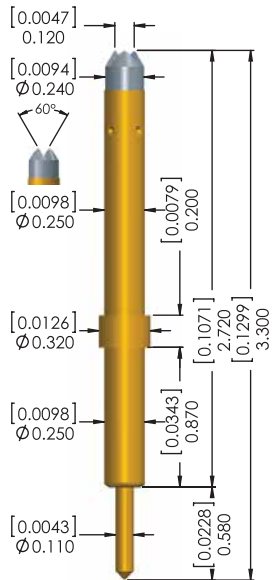
Electrical Spec. **G S G**
 Pitch: 0.4mm Socket Material: Peek 1000
 Current Rating 1A continuous
 Contact Resistance <175mΩ(AVG)
 Characteristic Impedance 51.31Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@7.63GHz
 Time Delay 55.93 psec
 Loop Inductance 2.87 nH
 Capacitance 1.09 pF

- Pitch 0.2
- Pitch 0.3
- Pitch 0.4
- Pitch 0.5
- Pitch 0.6
- Pitch 0.65
- Pitch 0.8
- Pitch 1.0
- Pitch 1.27

Probe Specifications

Unit:mm; []:in

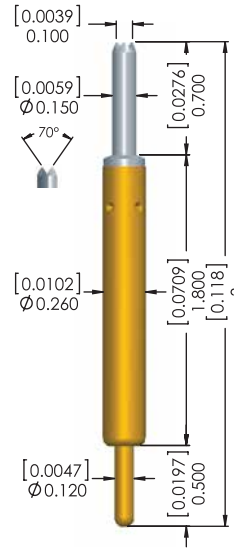
PE4-025EF24-01A0



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

Mechanical Spec.
 Recommended Travel 0.40mm
 Full Travel 0.51mm
 Spring Force 23g±20%@0.40mm
 Operating Temp. -15°C~125°C

PE3-026DF17-01F0



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

Mechanical Spec.
 Recommended Travel 0.35mm
 Full Travel 0.50mm
 Spring Force 20g±20%@0.35mm
 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 50.15 Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB>20GHz
 Time Delay 16.55 psec
 Loop Inductance 0.83 nH
 Capacitance 0.33 pF

Electrical Spec.

Pitch: 0.4mm Socket Material: Peek 1000



Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 57.68Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@9.16GHz
 Time Delay 13.31 psec
 Loop Inductance 0.77 nH
 Capacitance 0.23 pF

Pitch 0.2

Pitch 0.3

Pitch 0.4

Pitch 0.5

Pitch 0.6

Pitch 0.65

Pitch 0.8

Pitch 1.0

Pitch 1.27

Probe Specifications

Unit:mm; []in

Pitch 0.2

Pitch 0.3

Pitch 0.4

Pitch 0.5

Pitch 0.6

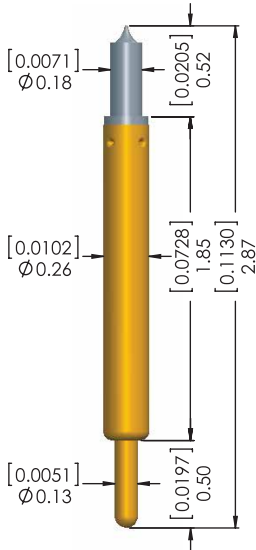
Pitch 0.65

Pitch 0.8

Pitch 1.0

Pitch 1.27

PE3-026BD18-01A0



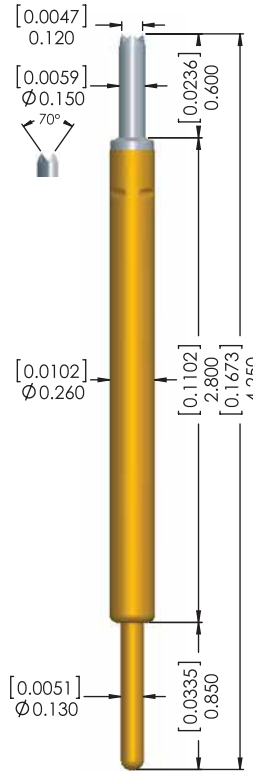
Material

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

Mechanical Spec.

- Recommended Travel: 0.30mm
- Full Travel: 0.40mm
- Spring Force: 24g±20%@0.30mm
- Operating Temp.: -15°C~125°C

PE3-026DF27-01F0



Material

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

Mechanical Spec.

- Recommended Travel: 0.40mm
- Full Travel: 0.55mm
- Spring Force: 22g±20%@0.40mm
- 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: 54.77 Ω
- Insertion Loss: -1dB@>20GHz
- Return Loss: -20dB@16GHz
- Time Delay: 12.6 psec
- Loop Inductance: 0.69 nH
- Capacitance: 0.23 pF

Electrical Spec.

Pitch: 0.4mm Socket Material: Peek 1000

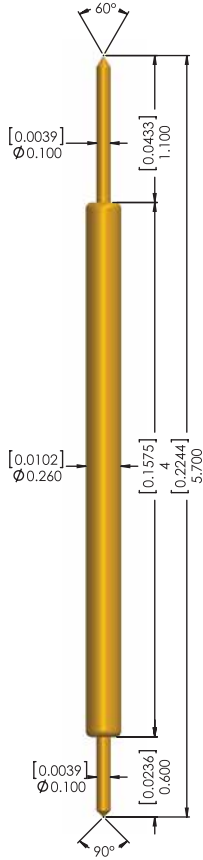


- Current Rating: 1A continuous
- Contact Resistance: <75mΩ(AVG)
- Characteristic Impedance: 54 Ω
- Insertion Loss: -1dB>20GHz
- Return Loss: -20dB@18.9GHz
- Time Delay: 21.7 psec
- Loop Inductance: 1.18 nH
- Capacitance: 0.40 pF

Probe Specifications

Unit:mm; []:in

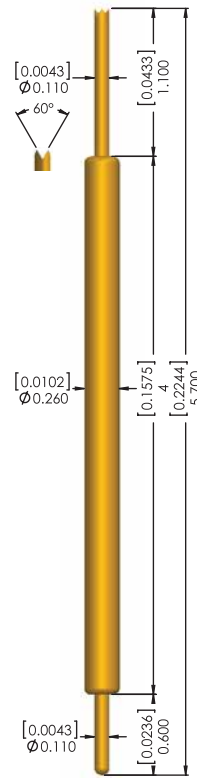
DE1-026BE40-01A0



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

Mechanical Spec.
 Recommended Travel
 0.65mm
 Full Travel
 1.00mm
 Spring Force
 14g±20%@0.65mm
 Operating Temp.
 -55°C~150°C

DE1-026DF40-02A0



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

Mechanical Spec.
 Recommended Travel
 0.65mm
 Full Travel
 0.85mm
 Spring Force
 18g±20%@0.65mm
 Operating Temp.
 -55°C~150°C

Electrical Spec. **G S G**

Pitch: 0.4mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <175mΩ(AVG)
 Characteristic Impedance 49.46Ω
 Insertion Loss -1dB@16.7GHz
 Return Loss -20dB@8.23GHz
 Time Delay 27.7 psec
 Loop Inductance 1.37 nH
 Capacitance 0.56 pF

Electrical Spec. **G S G**

Pitch: 0.4mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <175mΩ(AVG)
 Characteristic Impedance 47.71Ω
 Insertion Loss -1dB@17.81GHz
 Return Loss -20dB@6.45GHz
 Time Delay 27.67psec
 Loop Inductance 1.32 nH
 Capacitance 0.58 pF

Pitch 0.2

Pitch 0.3

Pitch 0.4

Pitch 0.5

Pitch 0.6

Pitch 0.65

Pitch 0.8

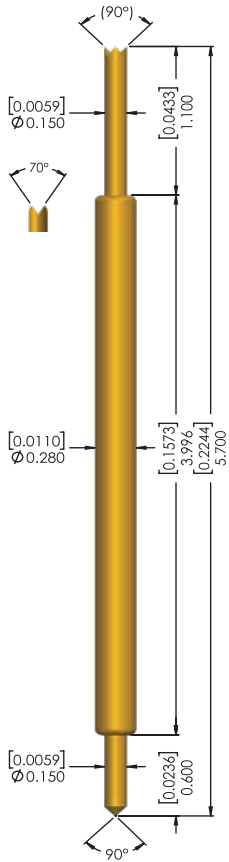
Pitch 1.0

Pitch 1.27

Probe Specifications

Unit:mm; []in

DE1-028EF40-05A0



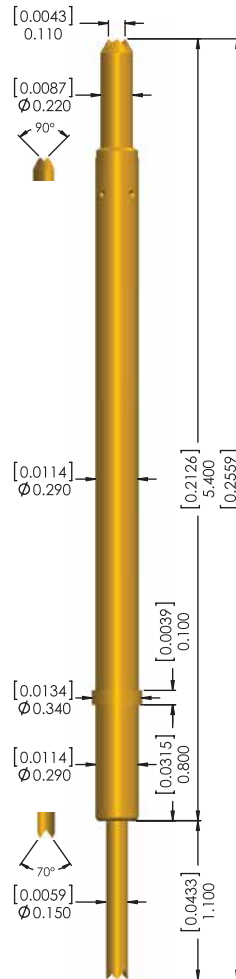
Material

- Top Plunger: SK4, Au plated
- Barrel: PhBz, Au plated
- Spring: SWP, Au plated
- Bottom Plunger: SK4, Au plated

Mechanical Spec.

- Recommended Travel: 0.65mm
- Full Travel: 1.10mm
- Spring Force: $28g \pm 20\% @ 0.65mm$
- Operating Temp.: $-15^{\circ}C \sim 125^{\circ}C$

DE4-029FF45-01A0



Material

- Top Plunger: SK4, Au plated
- Barrel: PhBz, Au plated
- Spring: SWP, Au plated
- Bottom Plunger: BeCu, Au plated

Mechanical Spec.

- Recommended Travel: 0.70mm
- Full Travel: 1.10mm
- Spring Force: $30g \pm 20\% @ 0.70mm$
- Operating Temp.: $-15^{\circ}C \sim 125^{\circ}C$

Electrical Spec.



Pitch: 0.4mm Socket Material: Peek 1000

- Current Rating: 1A continuous
- Contact Resistance: $< 175m\Omega (AVG)$
- Characteristic Impedance: 49.6Ω
- Insertion Loss: $-1dB @ 17.49GHz$
- Return Loss: $-20dB @ 7.92GHz$
- Time Delay: 27.7 psec
- Loop Inductance: 1.38nH
- Capacitance: 0.56 pF

Electrical Spec.



Pitch: 0.4mm Socket Material: Peek 1000

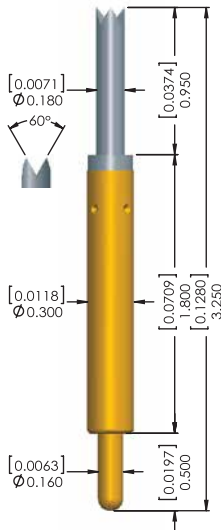
- Current Rating: 1A continuous
- Contact Resistance: $< 75m\Omega (AVG)$
- Characteristic Impedance: 44.38Ω
- Insertion Loss: $-1dB > 20GHz$
- Return Loss: $-20dB @ 3.77GHz$
- Time Delay: 28.84 psec
- Loop Inductance: 1.28 nH
- Capacitance: 0.65 pF

- Pitch 0.2
- Pitch 0.3
- Pitch 0.4
- Pitch 0.5
- Pitch 0.6
- Pitch 0.65
- Pitch 0.8
- Pitch 1.0
- Pitch 1.27

Probe Specifications

Unit:mm; []:in

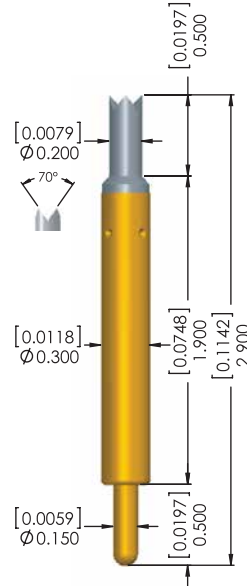
PE3-030DF17-03A0



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

Mechanical Spec.
 Recommended Travel
0.35mm
 Full Travel
0.45mm
 Spring Force
27g±20%@0.35mm
 Operating Temp.
-15°C~125°C

PE3-030DF18-01A0



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

Mechanical Spec.
 Recommended Travel
0.40mm
 Full Travel
0.50mm
 Spring Force
35g±20%@0.40mm
 Operating Temp.
-15°C~125°C

Electrical Spec. **G S G**

Pitch: 0.4mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 48.19 Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@8.59GHz
 Time Delay 14.94 psec
 Loop Inductance 0.72 nH
 Capacitance 0.31 pF

Electrical Spec. **G S G**

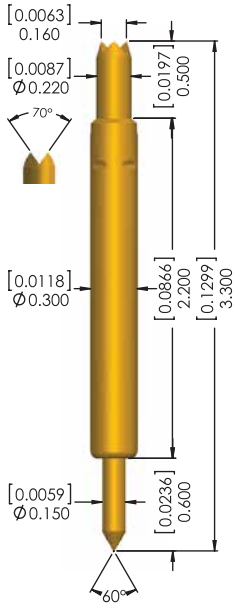
Pitch: 0.4mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 42.36Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@6.47GHz
 Time Delay 14.4 psec
 Loop Inductance 0.61 nH
 Capacitance 0.34 pF

Probe Specifications

Unit:mm; []in

DE3-030BF21-03F0



Material

Top Plunger

BeCu , Au plated

Barrel

PhBz , Au plated

Spring

SWP , Au plated

Bottom Plunger

BeCu , Au plated

Mechanical Spec.

Recommended Travel

0.40mm

Full Travel

0.55mm

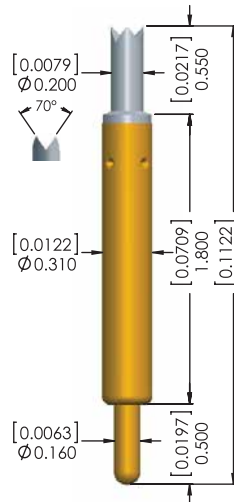
Spring Force

30g±20%@0.40mm

Operating Temp.

-15°C~125°C

PE3-031DF17-03F0



Material

Top Plunger

Pd alloy

Barrel

PhBz , Au plated

Spring

SWP , Au plated

Bottom Plunger

BeCu , Au plated

Mechanical Spec.

Recommended Travel

0.35mm

Full Travel

0.45mm

Spring Force

35g±20%@0.35mm

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 42Ω

Insertion Loss -1dB>20GHz

Return Loss -20dB@7.15GHz

Time Delay 16.4 psec

Loop Inductance 0.69nH

Capacitance 0.39 pF

Electrical Spec.

Pitch: 0.4mm Socket Material: Peek 1000



Current Rating 1A continuous

Contact Resistance <75mΩ(AVG)

Characteristic Impedance 39.9Ω

Insertion Loss -1dB>20GHz

Return Loss -20dB@4.5GHz

Time Delay 14.7 psec

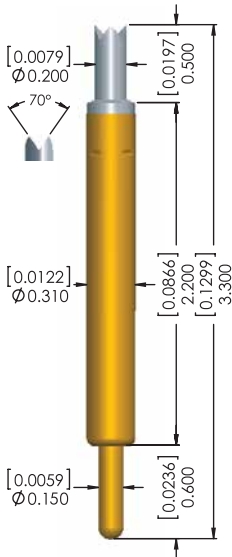
Loop Inductance 0.59 nH

Capacitance 0.37 pF

Probe Specifications

Unit:mm; []:in

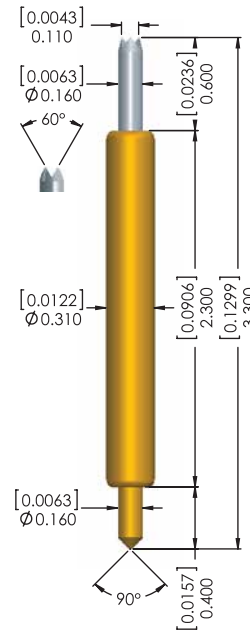
PE3-031DF21-03F0



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

Mechanical Spec.
 Recommended Travel
 0.35mm
 Full Travel
 0.60mm
 Spring Force
 35g±20%@0.35mm
 Operating Temp.
 -15°C~125°C

PE1-031EF23-02F0



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

Mechanical Spec.
 Recommended Travel
 0.40mm
 Full Travel
 0.65mm
 Spring Force
 30g±20%@0.40mm
 Operating Temp.
 -15°C~125°C

Electrical Spec. **G S G**
 Pitch: 0.4mm Socket Material: Peek 1000
 Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 42.67Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@5.08GHz
 Time Delay 16.64psec
 Loop Inductance 0.71nH
 Capacitance 0.39pF

Electrical Spec. **G S G**
 Pitch: 0.4mm Socket Material: Peek 1000
 Current Rating 1A continuous
 Contact Resistance <175mΩ(AVG)
 Characteristic Impedance 40.14Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@4.15GHz
 Time Delay 14.45psec
 Loop Inductance 0.58nH
 Capacitance 0.36pF

Pitch 0.2

Pitch 0.3

Pitch 0.4

Pitch 0.5

Pitch 0.6

Pitch 0.65

Pitch 0.8

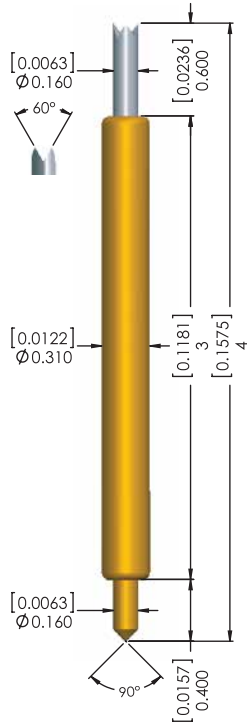
Pitch 1.0

Pitch 1.27

Probe Specifications

Unit:mm; []in

PE1-031EF30-02F0



Material

Top Plunger

Pd alloy

Barrel

PhBz, Au plated

Spring

SWP, Au plated

Bottom Plunger

BeCu, Au plated

Mechanical Spec.

Recommended Travel

0.60mm

Full Travel

0.80mm

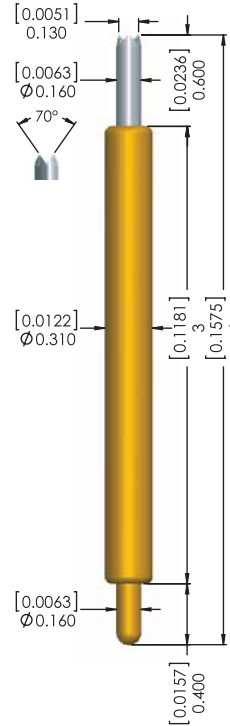
Spring Force

31g±20%@0.60mm

Operating Temp.

-15°C~125°C

PE1-031DF30-01F0



Material

Top Plunger

Pd alloy

Barrel

PhBz, Au plated

Spring

SWP, Au plated

Bottom Plunger

BeCu, Au plated

Mechanical Spec.

Recommended Travel

0.60mm

Full Travel

0.80mm

Spring Force

31g±20%@0.60mm

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 39.53Ω

Insertion Loss -1dB>20GHz

Return Loss -20dB@3.63GHz

Time Delay 18.97 psec

Loop Inductance 0.75 nH

Capacitance 0.48 pF

Electrical Spec.

Pitch: 0.4mm Socket Material: Peek 1000



Current Rating 1A continuous

Contact Resistance <175mΩ(AVG)

Characteristic Impedance 40 Ω

Insertion Loss -1dB>20GHz

Return Loss -20dB@3.9GHz

Time Delay 19.7 psec

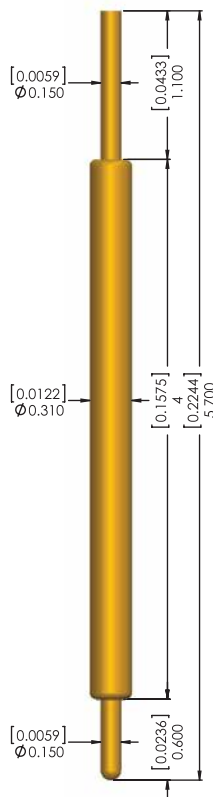
Loop Inductance 0.8 nH

Capacitance 0.49 pF

Probe Specifications

Unit:mm; []in

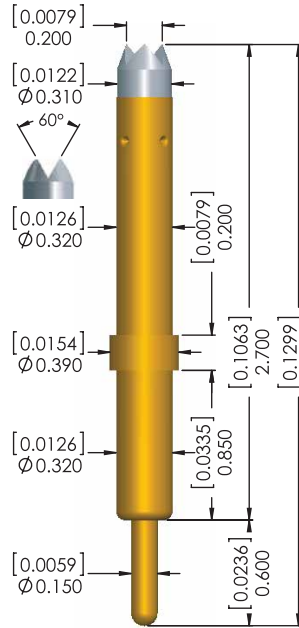
DE1-031DG40-01A0



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

Mechanical Spec.
 Recommended Travel
 0.65mm
 Full Travel
 1.10mm
 Spring Force
 37g±20%@0.65mm
 Operating Temp.
 -15°C~125°C

PE4-032DF24-03F0



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

Mechanical Spec.
 Recommended Travel
 0.40mm
 Full Travel
 0.60mm
 Spring Force
 30g±20%@0.40mm
 Operating Temp.
 -15°C~125°C

Electrical Spec. **G S G**

Pitch: 0.4mm Socket Material: Peek 1000
 Current Rating 1A continuous
 Contact Resistance <175mΩ(AVG)
 Characteristic Impedance 42.8Ω
 Insertion Loss -1dB@17.68GHz
 Return Loss -20dB@4.05 GHz
 Time Delay 27.97 psec
 Loop Inductance 1.2 nH
 Capacitance 0.65 pF

Electrical Spec. **G S G**

Pitch: 0.5mm Socket Material: Peek 1000
 Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 43.3 Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@5.44GHz
 Time Delay 18.2 psec
 Loop Inductance 0.79 nH
 Capacitance 0.42 pF

Pitch 0.2

Pitch 0.3

Pitch 0.4

Pitch 0.5

Pitch 0.6

Pitch 0.65

Pitch 0.8

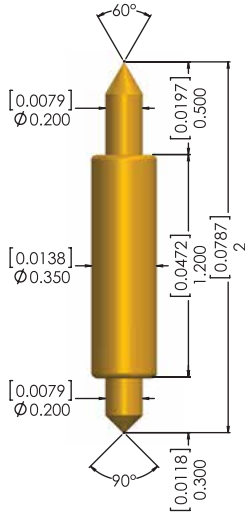
Pitch 1.0

Pitch 1.27

Probe Specifications

Unit:mm; []in

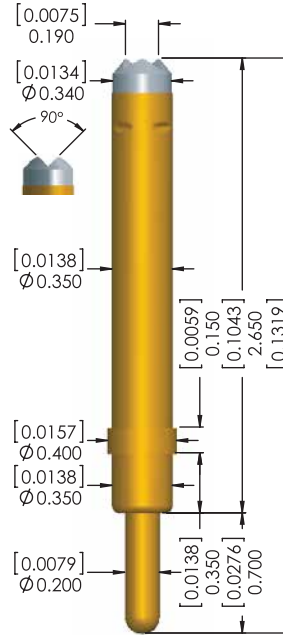
DE1-035BE12-01A0



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

Mechanical Spec.
 Recommended Travel
 0.30mm
 Full Travel
 0.40mm
 Spring Force
 18g±20%@0.30mm
 Operating Temp.
 -15°C~125°C

PE4-035DF24-01F0



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

Mechanical Spec.
 Recommended Travel
 0.45mm
 Full Travel
 0.70mm
 Spring Force
 32g±20%@0.45mm
 Operating Temp.
 -55°C~150°C

Electrical Spec. **G S G**

Pitch: 0.5mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <175mΩ(AVG)
 Characteristic Impedance 34.74Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@4.08GHz
 Time Delay 10.07 psec
 Loop Inductance 0.35nH
 Capacitance 0.29pF

Electrical Spec. **G S G**

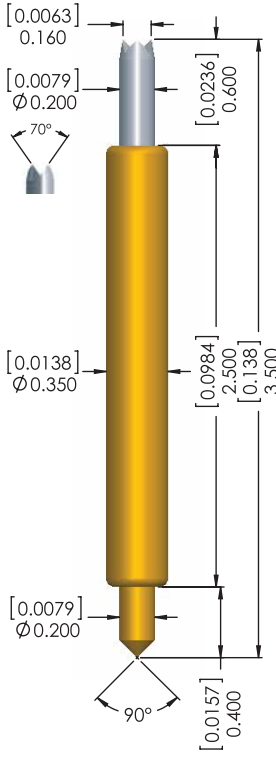
Pitch: 0.5mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 39.8 Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@3.94 GHz
 Time Delay 17.5 psec
 Loop Inductance 0.70 nH
 Capacitance 0.44 pF

Probe Specifications

Unit:mm; []:in

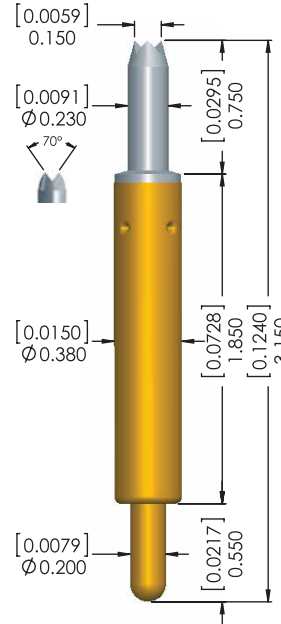
PE1-035EF25-01F0



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

Mechanical Spec.
 Recommended Travel
 0.60mm
 Full Travel
 0.80mm
 Spring Force
 32g±20%@0.60mm
 Operating Temp.
 -15°C~125°C

PE3-038DF17-03F0



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

Mechanical Spec.
 Recommended Travel
 0.38mm
 Full Travel
 0.55mm
 Spring Force
 38g±20%@0.38mm
 Operating Temp.
 -15°C~125°C

Electrical Spec.

Pitch: 0.5mm Socket Material: Peek 1000



Current Rating 1A continuous
 Contact Resistance <175mΩ(AVG)
 Characteristic Impedance 44Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@ 8.48GHz
 Time Delay 18.5psec
 Loop Inductance 0.82nH
 Capacitance 0.42pF

Electrical Spec.

Pitch: 0.5mm Socket Material: Peek 1000



Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 45.08Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@5.69GHz
 Time Delay 13.97 psec
 Loop Inductance 0.63 nH
 Capacitance 0.31 pF

Pitch 0.2

Pitch 0.3

Pitch 0.4

Pitch 0.5

Pitch 0.6

Pitch 0.65

Pitch 0.8

Pitch 1.0

Pitch 1.27

Probe Specifications

Unit:mm; []in

Pitch 0.2

Pitch 0.3

Pitch 0.4

Pitch 0.5

Pitch 0.6

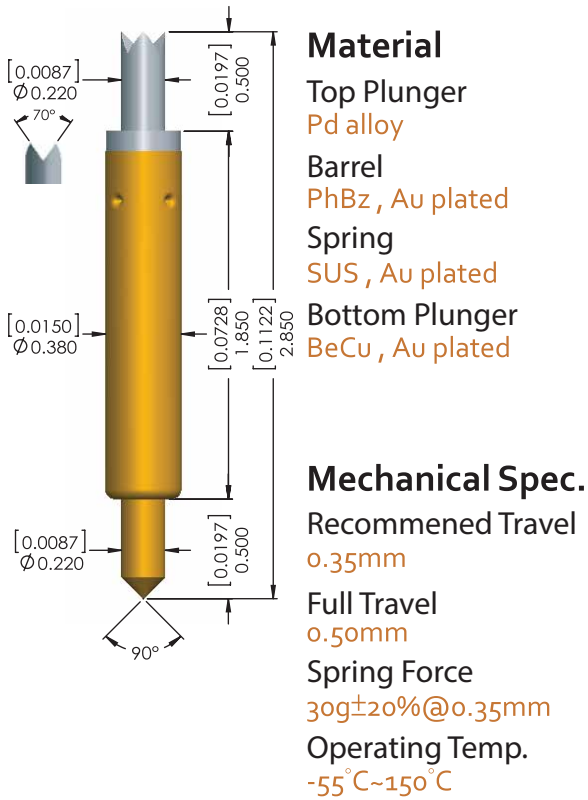
Pitch 0.65

Pitch 0.8

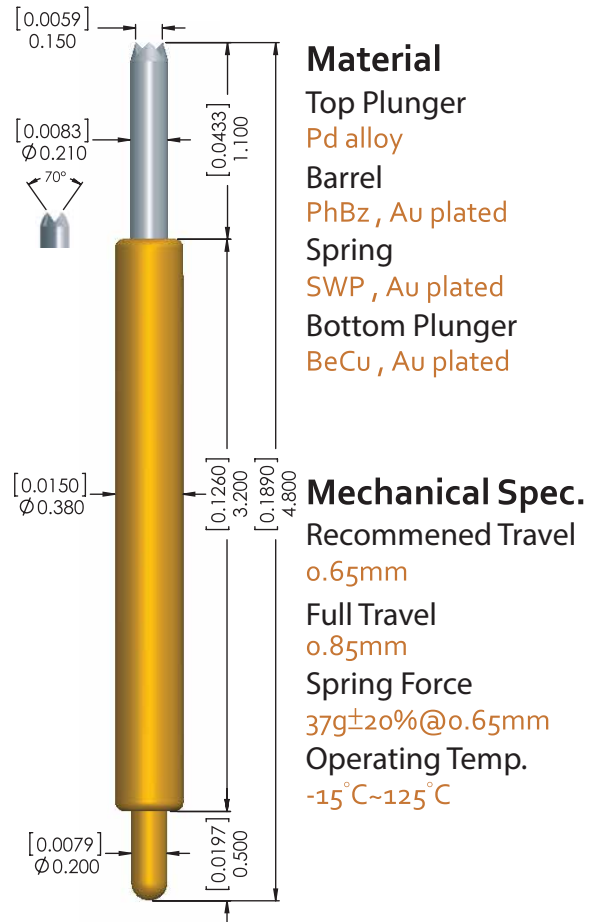
Pitch 1.0

Pitch 1.27

PE3-038EF17-04A0



PE1-038DF32-02F0



Electrical Spec. **G S G**

Pitch: 0.5mm Socket Material: Peek 1000

- Current Rating 1A continuous
- Contact Resistance <75mΩ(AVG)
- Characteristic Impedance 39.8 Ω
- Insertion Loss -1dB>20GHz
- Return Loss -20dB@4.5GHz
- Time Delay 15.5 psec
- Loop Inductance 0.62 nH
- Capacitance 0.39 pF

Electrical Spec. **G S G**

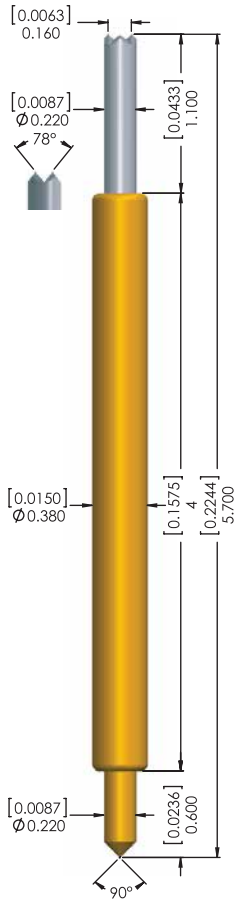
Pitch: 0.5mm Socket Material: Peek 1000

- Current Rating 1A continuous
- Contact Resistance <175mΩ(AVG)
- Characteristic Impedance 39.5 Ω
- Insertion Loss -1dB>20GHz
- Return Loss -20dB@3 GHz
- Time Delay 25.2 psec
- Loop Inductance 1 nH
- Capacitance 0.64 pF

Probe Specifications

Unit:mm; []:in

PE1-038EP40-01A0



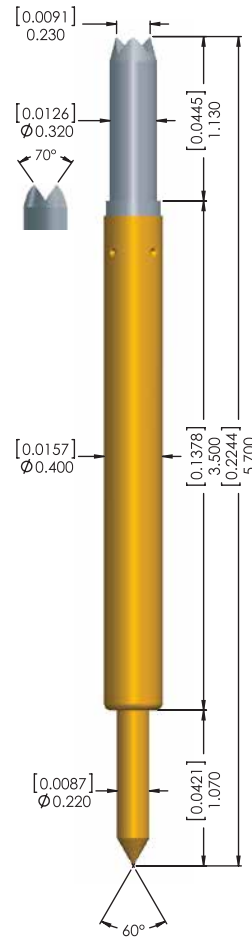
Material

Top Plunger
Pd alloy
Barrel
PhBz , Au plated
Spring
SUS , Au plated
Bottom Plunger
BeCu , Au plated

Mechanical Spec.

Recommended Travel
0.65mm
Full Travel
1.10mm
Spring Force
40g±20%@0.65mm
Operating Temp.
-55°C~150°C

PE3-040BF34-01A0



Material

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

Mechanical Spec.

Recommended Travel
0.70mm
Full Travel
1.00mm
Spring Force
30g±20%@0.70mm
Operating Temp.
-15°C~125°C

Electrical Spec.

Pitch: 0.5mm Socket Material: Peek 1000



Current Rating 1A continuous
Contact Resistance <175mΩ(AVG)
Characteristic Impedance 42 Ω
Insertion Loss -1dB>20GHz
Return Loss -20dB@3.82GHz
Time Delay 29.9 psec
Loop Inductance 1.26 nH
Capacitance 0.71pF

Electrical Spec.

Pitch: 0.5mm Socket Material: Peek 1000



Current Rating 1A continuous
Contact Resistance <75mΩ(AVG)
Characteristic Impedance 38.29 Ω
Insertion Loss 1dB>20GHz
Return Loss -20dB@2.16GHz
Time Delay 27.95 psec
Loop Inductance 1.07 nH
Capacitance 0.73 pF

Pitch 0.2

Pitch 0.3

Pitch 0.4

Pitch 0.5

Pitch 0.6

Pitch 0.65

Pitch 0.8

Pitch 1.0

Pitch 1.27

Probe Specifications

Unit:mm; []in

Pitch 0.2

Pitch 0.3

Pitch 0.4

Pitch 0.5

Pitch 0.6

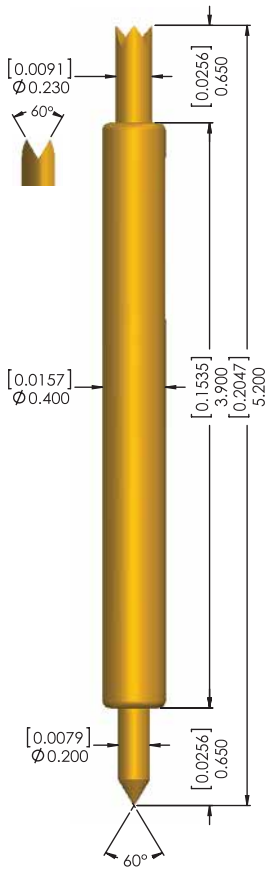
Pitch 0.65

Pitch 0.8

Pitch 1.0

Pitch 1.27

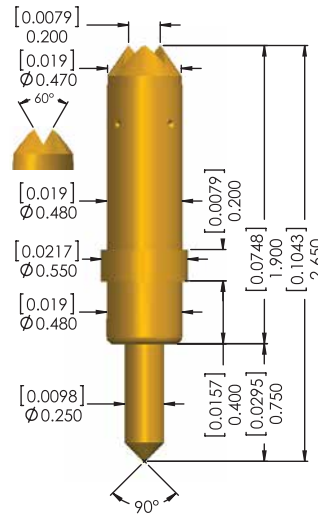
DE1-040BF39-030



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

Mechanical Spec.
 Recommended Travel
 0.65mm
 Full Travel
 1.30mm
 Spring Force
 25g±20%@0.65mm
 Operating Temp.
 -15°C~125°C

DE4-048EF17-01F0



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

Mechanical Spec.
 Recommended Travel
 0.50mm
 Full Travel
 0.60mm
 Spring Force
 27.5g±20%@0.50mm
 Operating Temp.
 -15°C~125°C

Electrical Spec.

Pitch: 0.5mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <175mΩ(AVG)
 Characteristic Impedance 36.58Ω
 Insertion Loss -1dB@15.1GHz
 Return Loss -20dB@1.99GHz
 Time Delay 25.97psec
 Loop Inductance 0.95nH
 Capacitance 0.71pF

Electrical Spec.

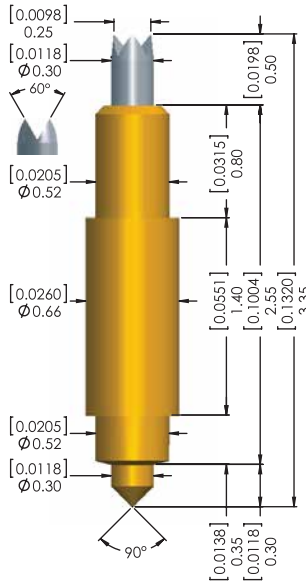
Pitch: 0.65mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 36.5Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@3.54GHz
 Time Delay 14.2psec
 Loop Inductance 0.52nH
 Capacitance 0.39pF

Probe Specifications

Unit:mm; []:in

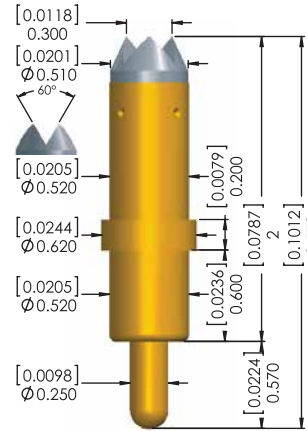
PE2-050EF25-01F0



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

Mechanical Spec.
 Recommended Travel
0.45mm
 Full Travel
0.60mm
 Spring Force
30g±20%@0.45mm
 Operating Temp.
-55°C~150°C

PE4-052DF17-01A0



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

Mechanical Spec.
 Recommended Travel
0.40mm
 Full Travel
0.60mm
 Spring Force
35g±20%@0.40mm
 Operating Temp.
-15°C~125°C

Electrical Spec.

Pitch: 0.8mm Socket Material: Peek 1000



Current Rating 1A continuous
 Contact Resistance <175mΩ(AVG)
 Characteristic Impedance 34.8Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@2.25GHz
 Time Delay 19.8psec
 Loop Inductance 0.69nH
 Capacitance 0.57pF

Electrical Spec.

Pitch: 0.8mm Socket Material: Peek 1000



Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 38.7Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@4.45GHz
 Time Delay 15.4psec
 Loop Inductance 0.6nH
 Capacitance 0.4pF

Pitch 0.2

Pitch 0.3

Pitch 0.4

Pitch 0.5

Pitch 0.6

Pitch 0.65

Pitch 0.8

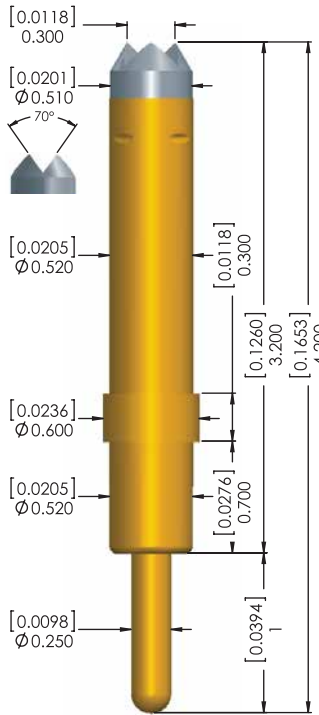
Pitch 1.0

Pitch 1.27

Probe Specifications

Unit:mm; []in

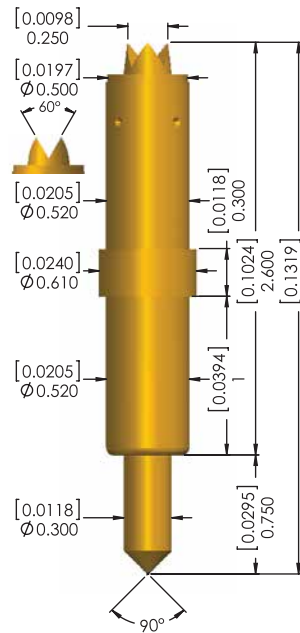
PE4-052DF28-01F0



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

Mechanical Spec.
 Recommended Travel
0.60mm
 Full Travel
0.80mm
 Spring Force
40g±20%@0.60mm
 Operating Temp.
-15°C~125°C

DE4-052EF23-02F0



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

Mechanical Spec.
 Recommended Travel
0.45mm
 Full Travel
0.65mm
 Spring Force
35g±20%@0.45mm
 Operating Temp.
-15°C~125°C

Electrical Spec.

Pitch: 0.8mm Socket Material: Peek 1000



Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 41.8Ω
 Insertion Loss -1dB@15.08GHz
 Return Loss -20dB@3.29GHz
 Time Delay 23.8psec
 Loop Inductance 1nH
 Capacitance 0.57pF

Electrical Spec.

Pitch: 0.8mm Socket Material: Peek 1000



Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 41.5Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@3.45GHz
 Time Delay 19.9 psec
 Loop Inductance 0.83 nH
 Capacitance 0.48 pF

Pitch 0.2

Pitch 0.3

Pitch 0.4

Pitch 0.5

Pitch 0.6

Pitch 0.65

Pitch 0.8

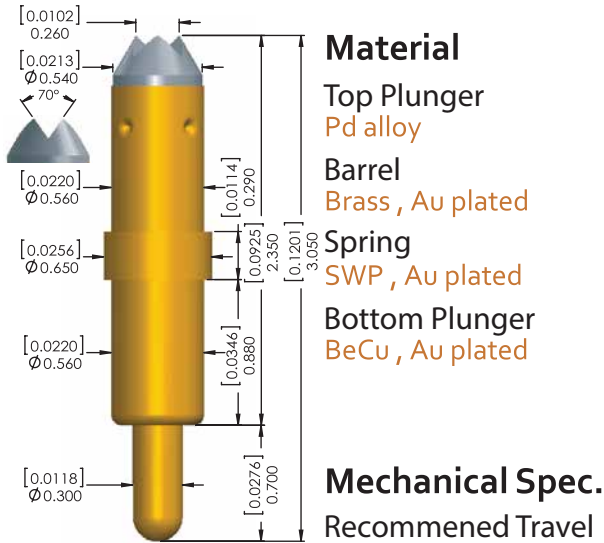
Pitch 1.0

Pitch 1.27

Probe Specifications

Unit:mm; []:in

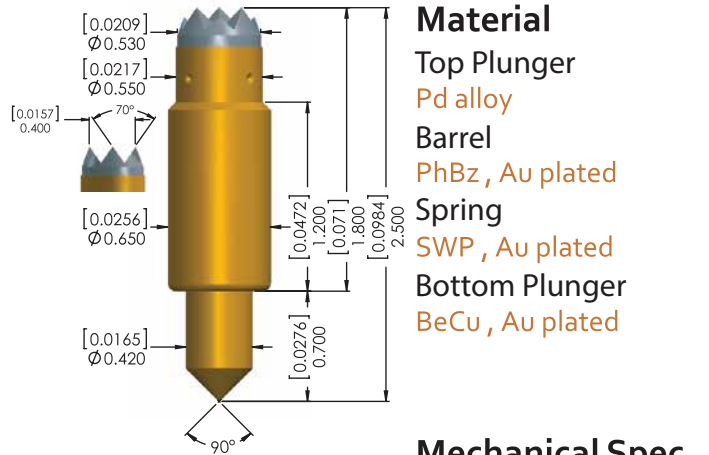
PE4-056DF20-02F0



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

Mechanical Spec.
 Recommended Travel
0.50mm
 Full Travel
0.70mm
 Spring Force
35g±20%@0.50mm
 Operating Temp.
-15°C~125°C

PE4-065EW15-01A0



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

Mechanical Spec.
 Recommended Travel
0.50mm
 Full Travel
0.70mm
 Spring Force
32g±20%@0.50mm
 Operating Temp.
-15°C~125°C

Electrical Spec. **G S G**

Pitch: 0.8mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 32.68Ω
 Insertion Loss -1dB@17.48GHz
 Return Loss -20dB@1.93GHz
 Time Delay 19.28psec
 Loop Inductance 0.63nH
 Capacitance 0.59pF

Electrical Spec. **G S G**

Pitch: 0.8mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <75mΩ(AVG)
 Characteristic Impedance 29Ω
 Insertion Loss -1dB@10.3GHz
 Return Loss -20dB@1.79GHz
 Time Delay 16psec
 Loop Inductance 0.47nH
 Capacitance 0.55pF

Pitch 0.2

Pitch 0.3

Pitch 0.4

Pitch 0.5

Pitch 0.6

Pitch 0.65

Pitch 0.8

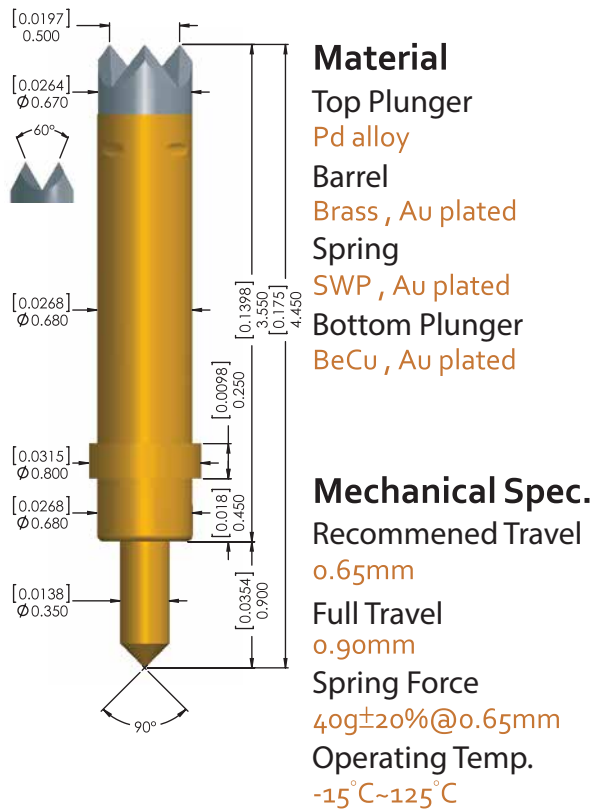
Pitch 1.0

Pitch 1.27

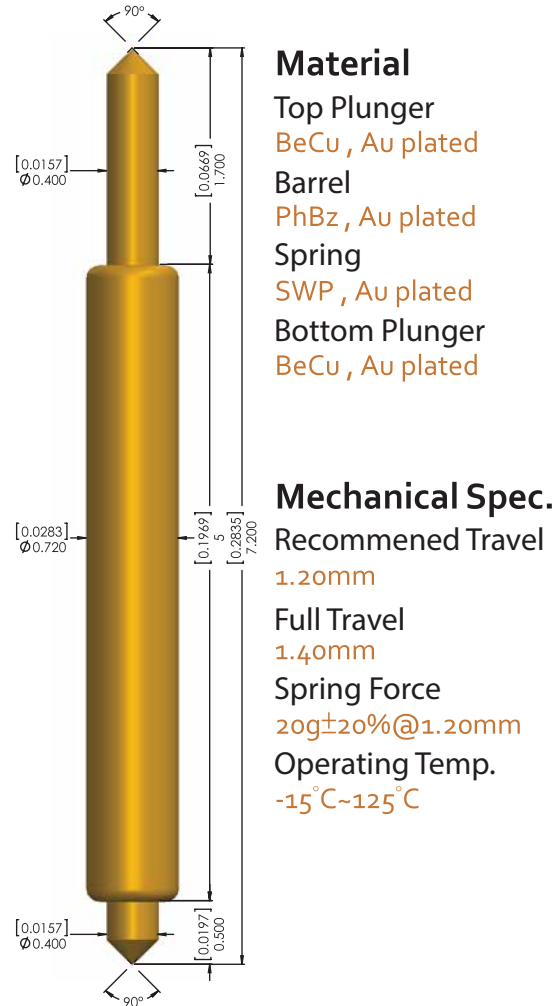
Probe Specifications

Unit:mm; []in

PE4-068EP35-01F0



DE1-072EE50-01A0



Electrical Spec.

Pitch: 1.0mm Socket Material: Peek 1000

- Current Rating 2A continuous
- Contact Resistance <75m Ω (AVG)
- Characteristic Impedance 37.53 Ω
- Insertion Loss -1dB@11.91GHz
- Return Loss -20dB@2.19GHz
- Time Delay 26.65 psec
- Loop Inductance 1 nH
- Capacitance 0.71 pF

Electrical Spec.

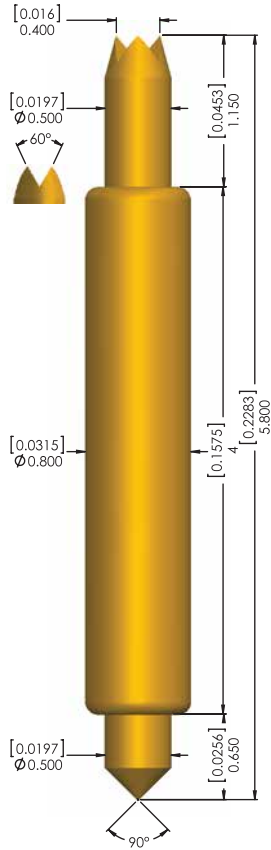
Pitch: 1.0mm Socket Material: Peek 1000

- Current Rating 1A continuous
- Contact Resistance <175m Ω (AVG)
- Characteristic Impedance 40.7 Ω
- Insertion Loss -1dB@13.9GHz
- Return Loss -20dB@2.37GHz
- Time Delay 38.7 psec
- Loop Inductance 1.58 nH
- Capacitance 0.95 pF

Probe Specifications

Unit:mm; []:in

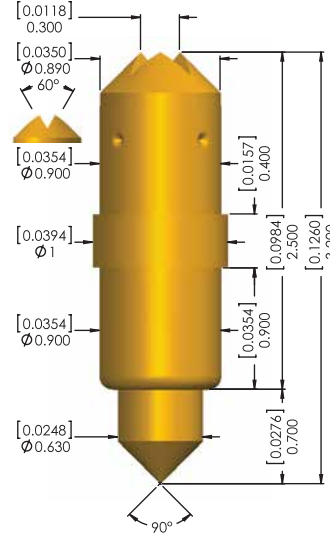
DE1-080BF40-010



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

Mechanical Spec.
 Recommended Travel
 0.70mm
 Full Travel
 1.05mm
 Spring Force
 30g±20%@0.70mm
 Operating Temp.
 -15°C~125°C

DE4-090EF25-02F0



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

Mechanical Spec.
 Recommended Travel
 0.50mm
 Full Travel
 0.70mm
 Spring Force
 30g±20%@0.50mm
 Operating Temp.
 -55°C~150°C

Electrical Spec.

Pitch: 1.0mm Socket Material: Peek 1000

Current Rating **3A continuous**
 Contact Resistance **<175mΩ(AVG)**
 Characteristic Impedance **33.9Ω**
 Insertion Loss **-1dB@12GHz**
 Return Loss **-20dB@1.22GHz**
 Time Delay **33.6 psec**
 Loop Inductance **1.14nH**
 Capacitance **0.99pF**

Electrical Spec.

Pitch: 1.27mm Socket Material: Peek 1000

Current Rating **1A continuous**
 Contact Resistance **<75mΩ(AVG)**
 Characteristic Impedance **34.6Ω**
 Insertion Loss **-1dB@17.27GHz**
 Return Loss **-20dB@2.16GHz**
 Time Delay **20.4 psec**
 Loop Inductance **0.71 nH**
 Capacitance **0.59 pF**

Pitch 0.2

Pitch 0.3

Pitch 0.4

Pitch 0.5

Pitch 0.6

Pitch 0.65

Pitch 0.8

Pitch 1.0

Pitch 1.27