

Fin Pitch Conn. / FPC Test

A board to board connection requires fine-pitch pogo sockets to achieve the required accuracy. Pogo-Pin testing solutions have a significantly increased lifetime with more than 300,000 touchdowns. The excellent connectivity reduces the coplanarity error that occurs with traditional testing pins and results in improved efficiency of the testing procedures. C.C.P. has developed different kinds of testing pins that can be customized according to the customer's needs.

Design Concept



Single-site pogo socket
Pitch: 0.4mm



Fine Pitch Connector
Device under Test



Dual-site pogo socket
with fine pitch connector (DUT)

Clip Pogo Socket

Clip pogo socket can hold the gold finger part on a PCB or an FPC. This solution is especially efficient and easy for PCB/FPC testing.



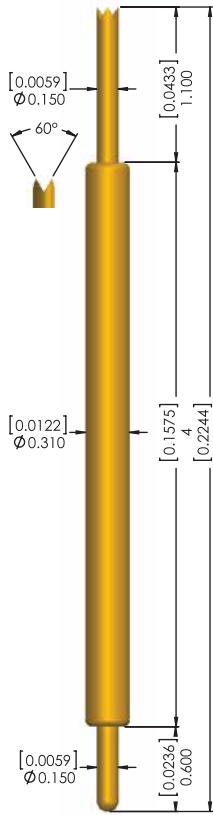
Pogo Socket Parts	Specification
Min. Pitch	0.35mm
Lid Material	Acrylic/ Aluminum
Floating Plate/ Top, Bottom Housing Material	Peek Ceramic
Mounting Plate Material	Aluminum
Life Time	30,000



Gold Finger
Device under Test

Probe Specifications

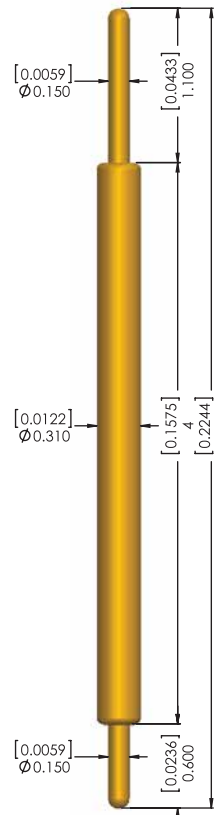
DE1-030DF40-05A0



Material
 Top Plunger
 SK4, Au plated
 Barrel
 PhBz, Au plated
 Spring
 SWP, Au plated
 Bottom Plunger
 BeCu, WJ3 plated

Mechanical Spec.
 Recommended Travel
 0.50mm
 Full Travel
 1.00mm
 Spring Force
 25g±20%@0.50mm
 Operating Temp.
 -15°C~125°C

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

Mechanical Spec.
 Recommended Travel
 0.80mm
 Full Travel
 1.00mm
 Spring Force
 25g±20%@0.80mm
 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 44.8Ω
 Insertion Loss -1dB>20GHz
 Return Loss -20dB@4.5GHz
 Time Delay 28.2 psec
 Loop Inductance 1.27nH
 Capacitance 0.63 pF

Electrical Spec.



Pitch: 0.4mm Socket Material: Peek 1000

Current Rating 1A continuous
 Contact Resistance <175mΩ(AVG)
 Characteristic Impedance 42.54Ω
 Insertion Loss -1dB@18.82GHz
 Return Loss -20dB@3.41GHz
 Time Delay 26.8 psec
 Loop Inductance 1.14 nH
 Capacitance 0.63 pF