

Fine 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 30.000 touchdowns. The excellent connectivity reduces the coplanarity error that occurs with traditional testing pins and results in a improved efficiency of the testing procedures. CCP 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

Connector pogo socket

Floating plate is not only to align the connector but also to protect pogo pins inside since the pins won't reveal unless the floating plate is pressed. Further, with the floating block in lid, there is no chance for connector and pogo pins unwell connecting.



Fine Pitch Connector
Device under Test

Clip Pogo Socket

Dolphin can hold the gold finger part on PCB/ FPC. This solution definitely would be fast and easy for PCB/ FPC testing.



Gold Finger
Device under Test

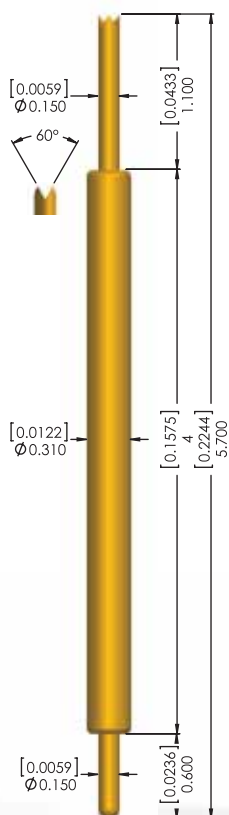
Pogo Socket Parts	Specification
Min. Pitch	0.35mm
Lid Material	Acrylic/ Aluminum
Floating Plate/ Top, Bottom Housing Material	Peek Ceramic
Mounting Plate Material	Aluminum
Life Time	30,000



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

Probe Specification

DE1-030DF40-05A0



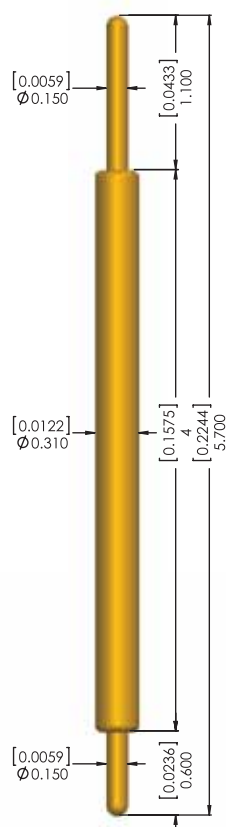
Material

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

DE1-031DD40-01W1



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