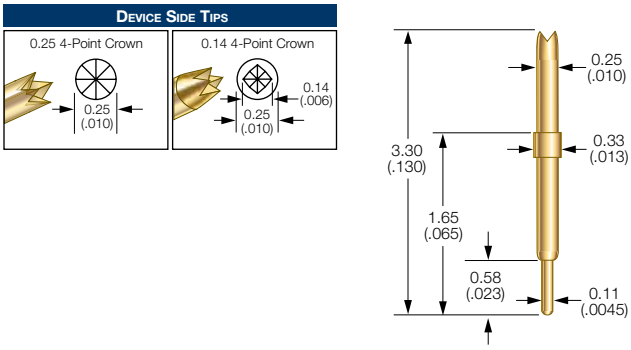
Semiconductor Probes 0.40mm Pitch

101303 Probe



Probe Specifications

Minimum Device Pitch: 0.40mm (.016)
Signal Path Length: 2.92mm (.115)
Spring Force per Contact:
202 & 210 - 21.2g (0.75 oz.) @ 0.38mm (.015) travel
207 & 211 - 16.7g (0.59 oz.) @ 0.38mm (.015) travel
Device Compliance: 0.25mm (.010)
DUT Board Compliance: 0.15mm (.006)
Operating Temperature:
-55˚C to 150˚C for stainless steel spring
-55˚C to 120˚C for music wire spring
Insertions: > 500,000

Materials

Barrel: Beryllium copper, Endura plating
Spring: Stainless steel, gold plated - 17g spring;
Music wire, gold plated - 21g spring
Device Side Contact: Full-hard beryllium copper, gold plated
Board Side Contact: Full-hard beryllium copper, gold plated

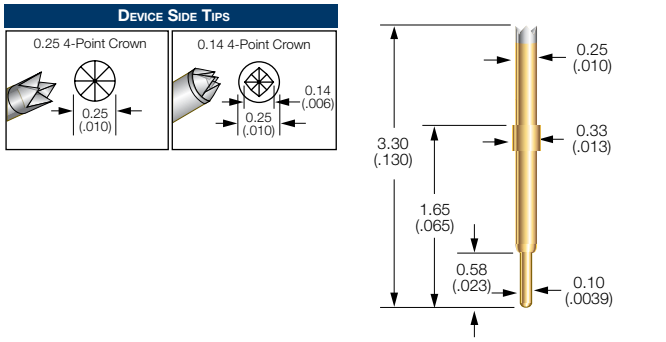
Electrical Specifications

Typical Resistance: < 40 mΩ
Current Carrying Capacity: 3 amps continuous
(Current DC carry capability @ 80° C steady state)
Pattern 2a: R S R @ 0.4mm pitch
Characteristic Impedance: 54 Ω
Time Delay: 19 pSec
Loop Inductance: 1.02 nH
Signal Pin to Return Capacitance: 0.35 pF
-1 dB Insertion Loss Bandwidth: > 20 GHz

How to Order

Part No.	Device Side Tip	PCB Side Tip	Spring Force
101303-202	0.25 4-pt. Crown	Radius	21.2g
101303-207	0.25 4-pt. Crown	Radius	16.7g
101303-210	0.14 4-pt. Crown	Radius	21.2g
101303-211	0.14 4-pt. Crown	Radius	16.7g

101795 Probe



Probe Specifications

Minimum Device Pitch: 0.40mm (.016)
Signal Path Length: 2.92mm (.115)
Force per Contact: 21g (0.74 oz.) @ 0.38mm (.015) travel
Device Compliance: 0.25mm (.010)
DUT Board Compliance: 0.15mm (.006)
Operating Temperature: -55°C to 120°C
Insertions: > 500,000

Materials

Barrel: Brass, gold plating
Spring: Music wire, gold plated
Device Side Contact: Homogeneous alloy
Board Side Contact: Full-hard beryllium copper, gold plated

Electrical Specifications

Typical Resistance: < 50 mΩ
Current Carrying Capacity: 3 amps continuous
(Current DC carry capability @ 80° C steady state)
Pattern 2a: R S R @ 0.4mm pitch
Characteristic Impedance: 54 Ω
Time Delay: 19 pSec
Loop Inductance: 1.02 nH
Signal Pin to Return Capacitance: 0.35 pF
-1 dB Insertion Loss Bandwidth: > 20 GHz

How to Order

Part No.	Device Side Tip	PCB Side Tip	Spring Force
101795-H2	0.25 4-pt. Crown	Radius	21g
101795-H10	0.14 4-pt. Crown	Radius	21g

Prolonged exposure of greater than one hour reduces the maximum operating temperature of music wire springs to 85°C.

Specifications subject to change without notice. Dimensions in millimeters (inches)