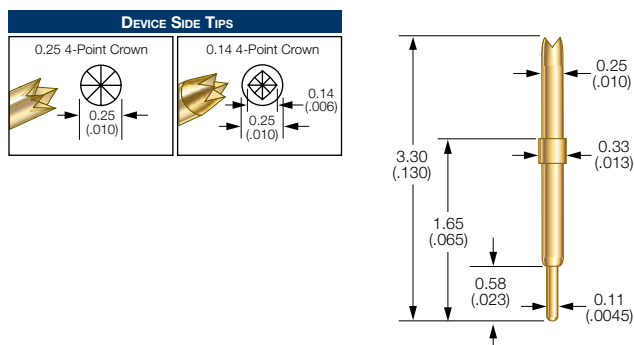


Semiconductor Probes 0.40mm PITCH

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

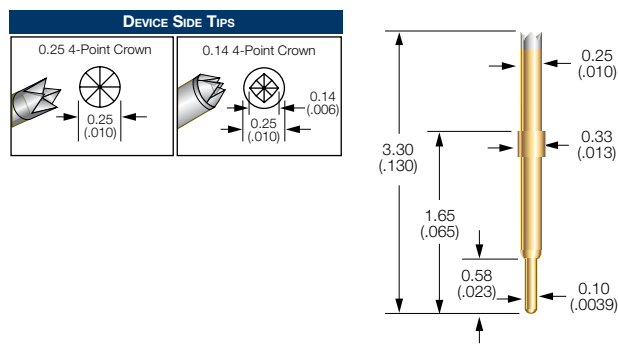
ELECTRICAL SPECIFICATIONS

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)