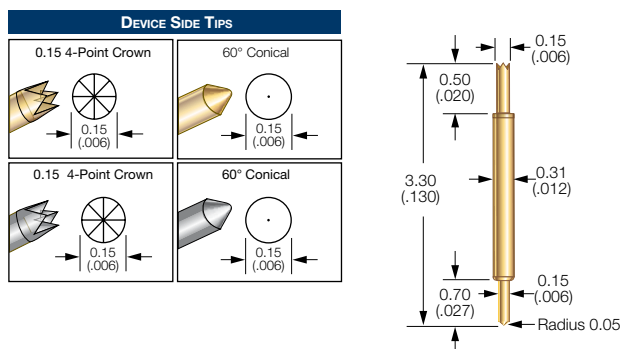


0.40MM PITCH Semiconductor Probes

623-0286 PROBE



PROBE SPECIFICATIONS

Minimum Device Pitch: 0.40mm (.016)
 Signal Path Length: 2.80mm (.110)
 Force per Contact: 19.2g (0.68 oz.) @ 0.50mm (.020) travel
 Device Compliance: 0.30mm (.012)
 DUT Board Compliance: 0.20mm (.008)
 Operating Temperature: -55°C to 120°C
 Insertions: > 500,000

MATERIALS

Barrel: Phosphorous bronze, gold plating
 Spring: Music wire, gold plated
 Device Side Contact: Carbon steel, gold plated or Homogeneous alloy
 Board Side Contact: Full-hard beryllium copper, gold plated

ELECTRICAL SPECIFICATIONS

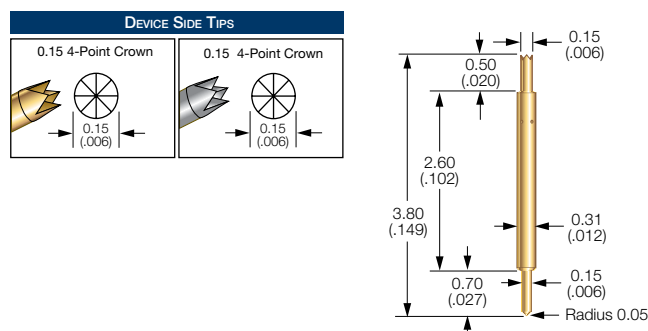
Typical Resistance: < 60 mΩ
 Current Carrying Capacity: 2.5 amps continuous
 (Current DC carry capability @ 80° C steady state)
 Pattern 2a: **R S R** @ 0.4mm pitch
 Characteristic Impedance: 49 Ω
 Time Delay: 20 pSec
 Loop Inductance: 0.98 nH
 Signal Pin to Return Capacitance: 0.41 pF
 -1 dB Insertion Loss Bandwidth: > 17.5 GHz

HOW TO ORDER

Part No.	Device Side Tip	PCB Side Tip	Spring Force
623-0286-02	0.15 4-pt. Crown	Conical	19.2g
623-0286-03	Conical	Conical	19.2g
623-0286-H2	0.15 4-pt. Crown	Conical	19.2g
623-0286-H3	Conical	Conical	19.2g

H2 & H3 have the homogeneous alloy on the device side of the contact.

623-0334 PROBE



PROBE SPECIFICATIONS

Minimum Device Pitch: 0.40mm (.016)
 Signal Path Length: 3.30mm (.130)
 Force per Contact: 25g (.88 oz.) @ 0.50mm (.020) travel
 Device Compliance: 0.30mm (.012)
 DUT Board Compliance: 0.20mm (.008)
 Operating Temperature: -55°C to 120°C
 Insertions: > 500,000

MATERIALS

Barrel: Phosphorous bronze, gold plating
 Spring: Music wire, gold plated
 Device Side Contact: Carbon steel, gold plated or Homogeneous alloy
 Board Side Contact: Full-hard beryllium copper, gold plated

ELECTRICAL SPECIFICATIONS

Typical Resistance: < 60 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: 47 Ω
 Time Delay: 22 pSec
 Loop Inductance: 1.01 nH
 Signal Pin to Return Capacitance: 0.46 pF
 -1 dB Insertion Loss Bandwidth: > 15.4 GHz

HOW TO ORDER

Part No.	Device Side Tip	PCB Side Tip	Spring Force
623-0334-01	0.15 4-pt. Crown	Conical	25g
623-0334-H1	0.15 4-pt. Crown	Conical	25g

H1 has the homogeneous alloy on the device side of the contact.

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)