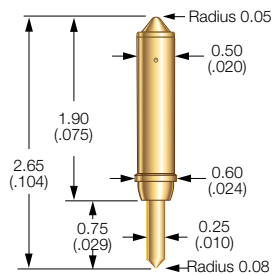
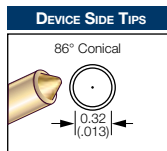


623-0271 PROBE



PROBE SPECIFICATIONS

Minimum Device Pitch: 0.80mm (.031)
 Signal Path Length: 2.15mm (0.085)
 Force per Contact: 27.5g (0.97 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
 Board Side Contact: Full-hard beryllium copper, gold plated

ELECTRICAL SPECIFICATIONS

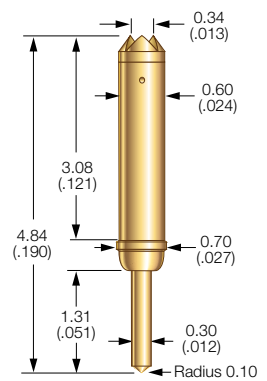
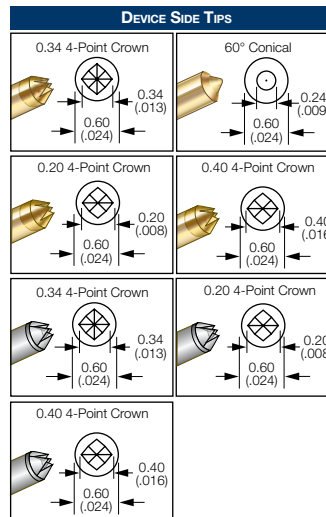
Typical Resistance: < 40 mΩ
 Current Carrying Capacity: 3 amps continuous
 (Current DC carry capability @ 80° C steady state)
 Pattern 2a: **R S R** @ 1.0 mm pitch
 Characteristic Impedance: 54 Ω
 Time Delay: 13 pSec
 Loop Inductance: 0.72 nH
 Signal Pin to Return Capacitance: 0.25 pF
 -1 dB Insertion Loss Bandwidth: > 20 GHz

HOW TO ORDER

Part No.	Device Side Tip	PCB Side Tip
623-0271-01	Conical	Conical

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

623-0195 PROBE



PROBE SPECIFICATIONS

Minimum Device Pitch: 0.80mm (.031)
 Signal Path Length: 4.04mm (.159)
 Force per Contact: 33.4g (1.18 oz.) @ 0.80mm (.031) travel
 Device Compliance: 0.50mm (.020)
 DUT Board Compliance: 0.30mm (.012)
 Operating Temperature: -55°C to 120°C
 (Higher operating temperature probes available, consult factory)
 Insertions: > 500,000

MATERIALS

Barrel: Phosphorous bronze, gold plating
 Spring: Music wire, gold plated
 Device Side Contact:
 02 & 03 Carbon steel, gold plated
 08 & 09 Full-hard beryllium copper, gold plated
 H2, H8, & H9 Homogeneous alloy
 Board Side Contact: Full-hard beryllium copper, gold plated

ELECTRICAL SPECIFICATIONS

Typical Resistance: 03 < 35 mΩ;
 02, 08, 09, H2, H8, & H9 < 50 mΩ
 Carrying Capacity: 3 amps continuous
 (Current DC carry capability @ 80° C steady state)
 Pattern 2a: **R S R** @ 0.8mm pitch
 Characteristic Impedance: 37 Ω
 Time Delay: 23 pSec
 Loop Inductance: 0.86 nH
 Signal Pin to Return Capacitance: 0.62 pF
 -1 dB Insertion Loss Bandwidth: > 20 GHz

HOW TO ORDER

Part No.	Device Side Tip	PCB Side Tip
623-0195-02	0.34 4-pt. Crown	Conical
623-0195-03	Conical	Conical
623-0195-08	0.20 4-pt. Crown	Conical
623-0195-09	0.40 4-pt. Crown	Conical
623-0195-H2	0.34 4-pt. Crown	Conical
623-0195-H8	0.20 4-pt. Crown	Conical
623-0195-H9	0.40 4-pt. Crown	Conical

H2, H8 & H9 has the homogeneous alloy on the device side of the contact.

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