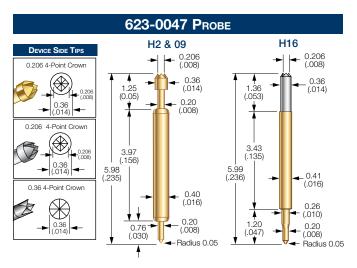
0.50мм & 0.65мм Рітсн Semiconductor Probes



623-0303 PROBE 0.20 0.20 4-Point Crown 0.20 4-Point Crown 2.30 (.090) 0.40 0.40 (.016) 2.90 (.114) 0.40 (.016)3.70 (.145) (.020)0.22 (.009) (.031)Radius 0.09

PROBE SPECIFICATIONS

Minimum Device Pitch: 0.50mm (.020) Signal Path Length: 5.28mm (.208)

Force per Contact:

09 - 32g (1.1 oz.) @ 0.70mm (.028) travel H2 - 22g (0.78 oz.), @ 0.70mm (.028) travel H16 - 35g (1.24 oz.) @ 0.70mm (.028) travel

Device Compliance: 0.40mm (.016) DUT Board Compliance: 0.30mm (.012)

Operating Temperature:

-55°C to 150°C for stainless steel spring -55°C to 120°C for music wire spring

(Higher operating temperature probes available, consult factory)

Insertions: > 500.000

MATERIALS

Barrel: Phosphorous bronze, gold plating

Spring:

09 & H2 - Stainless steel, gold plated H16 - Music wire, gold plated

Device Side Contact: Full-hard beryllium copper, gold plated

or Homogeneous alloy

Board Side Contact: Full-hard beryllium copper, gold plated

ELECTRICAL SPECIFICATIONS

Typical Resistance: H2 & H9 < 45 m Ω ; H16 < 50 m Ω Current Carrying Capacity: 2.2 amps continuous (Current DC carry capability @ 80° C steady state)

Pattern 2a: R S R @ 0.65mm pitch Characteristic Impedance: 50 \Omega

Time Delay: 31 pSec Loop Inductance: 1.56 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	
623-0047-09	0.206 4-pt Crown	Conical	
623-0047-H2	0.36 4-pt Crown	Conical	
623-0047-H16	0.206 4-pt Crown	Conical	

H2 & H16 has the homogeneous alloy on the device side of the contact.

PROBE SPECIFICATIONS

Minimum Device Pitch: 0.65mm (.026) Signal Path Length: 3.10mm (.122)

Force per Contact: 30g (1.06 oz.) @ 0.60mm (.024) travel

Device Compliance: 0.40mm (.016) **DUT Board Compliance:** 0.20mm (.008) 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: Carbon steel, gold plated or

Homogeneous alloy

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 @ 0.65mm pitch Characteristic Impedance: 49 \Oxid

Time Delay: 17 pSec Loop Inductance: 0.85 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	
623-0303-01	0.20 4-pt. Crown	Conical	
623-0303-H1	0.20 4-pt. Crown	Conical	

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)