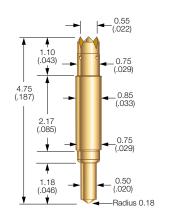
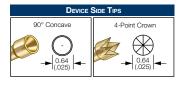
1.00mm & 1.27mm Pitch Semiconductor Probes

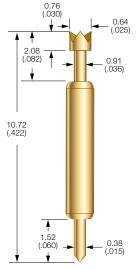
623-0117 PROBE





100785 PROBE





PROBE SPECIFICATIONS

Minimum Device Pitch: 1.00mm (.039) Signal Path Length: 3.90mm (.154)

Force per Contact: 35.5g (1.25 oz.) @ 0.85mm (.033) travel

Device Compliance: 0.45mm (.018) **DUT Board Compliance:** 0.40mm (.016) Operating Temperature: -55°C to 120°C

Insertions: > 500,000

MATERIALS

Barrel: Phosphorous bronze, gold plating

Spring: Music wire, gold plated

Device Side Contact: Full-hard beryllium copper, gold plated 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 @ 1.27mm pitch Characteristic Impedance: 43 \O

Time Delay: 24 pSec Loop Inductance: 1.02 nH

Signal Pin to Return Capacitance: 0.56 pF -1 dB Insertion Loss Bandwidth: > 20 GHz

How to Order			
Part No.	Device Side Tip	PCB Side Tip	
623-0117-02	0.55 4-pt Crown	Conical	

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

PROBE SPECIFICATIONS

Minimum Device Pitch: 1.27mm (.050) Signal Path Length: 9.2mm (.362)

Force per Contact: 42.5g (1.5 oz.) @ 1.52mm (.060) travel

Device Compliance: 0.76mm (.030) **DUT Board Compliance:** 0.76mm (.030) Operating Temperature: -55°C to 150°C

Insertions: > 250,000

MATERIALS

Barrel: Full-hard beryllium copper, gold plated

Spring: Stainless steel, gold plated

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

ELECTRICAL SPECIFICATIONS

Typical Resistance: < 50 mΩ

Carrying Capacity: 3 amps continuous

(Current DC carry capability @ 80° C steady state)

Pattern 2a: R S R @ 1.27mm pitch Characteristic Impedance: 41 \O

Time Delay: 47 pSec Loop Inductance: 1.93 nH

Signal Pin to Return Capacitance: 1.15 pF -1 dB Insertion Loss Bandwidth: > 16.2 GHz

How to Order			
Part No.	Device Side Tip	PCB Side Tip	
100785-002	.064 4-pt. Crown	Conical	
100785-003	90° Concave	Conical	

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

