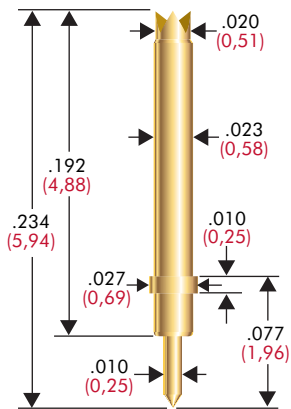


# Semiconductor Probes


## 101084 PROBE



### PROBE SPECIFICATIONS

Minimum Pitch: .030 (0,75)  
 Signal Path Length: .205 (5,21)  
 Force per Contact: 1.25 oz. (35g) @ .029 (0,74) travel  
 Device Compliance: .016 (0,40)  
 DUT Board Compliance: .013 (0,33)  
 Operating Temperature: -55°C to 150°C  
 Insertions: >500,000

### ELECTRICAL SPECIFICATIONS

Impedance: 50  $\Omega$  characteristic  
 Pattern:  \* 2a @ .039 (1,00) pitch  
 Bandwidth: >10 GHz @ -1 dB  
 Loop Inductance: 1.43 nH @ .039 (1,00) pitch  
 Capacitance: 0.51 pF  
 Typical Resistance: <50 m $\Omega$   
 Current Carrying Capacity: 5 amps continuous  
 (Individual probe in free air @ ambient temperature)

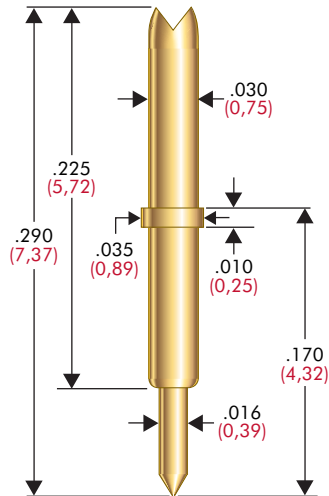
### MATERIALS

Barrel: Beryllium copper, gold plated  
 Spring: Stainless steel, gold plated  
 Plunger: Full-hard beryllium copper, gold plated

### HOW TO ORDER

101084-001


## 100929 PROBE



### PROBE SPECIFICATIONS

Minimum Pitch: .039 (1,00)  
 Signal Path Length: .250 (6,35)  
 Force per Contact 1.1 oz (31g) @ .040 (1,02) travel  
 Device Compliance: .035 (0,89)  
 DUT Board Compliance: .005 (0,13)  
 Operating Temperature: -55°C to 150°C  
 Insertions: >500,000

### ELECTRICAL SPECIFICATIONS

Impedance: 50  $\Omega$  characteristic  
 Pattern:  \* 2a @ .050 (1,27) pitch  
 Bandwidth: >10 GHz @ -1 dB  
 Loop Inductance: 1.75 nH @ .050 (1,27) pitch  
 Capacitance: 0.62 pF  
 Typical Resistance: <50 m $\Omega$   
 Current Carrying Capacity: 5 amps continuous  
 (Individual probe in free air @ ambient temperature)

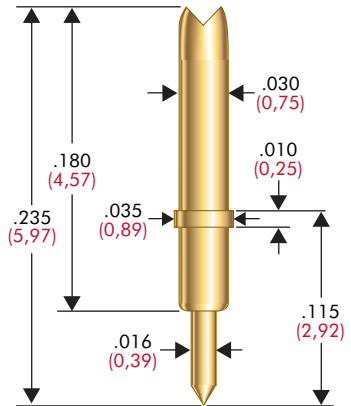
### MATERIALS

Barrel: Beryllium copper, gold plated  
 Spring: Stainless steel, gold plated  
 Plunger: Full-hard beryllium copper, gold plated

### HOW TO ORDER

100929-001


## 100881 PROBE



### PROBE SPECIFICATIONS

Minimum Pitch: .039 (1,00)  
 Signal Path Length: .215 (5,46)  
 Force per Contact: 1.0 oz (28g) @ .020 (0,51) travel  
 Device Compliance: .015 (0,38)  
 DUT Board Compliance: .005 (0,13)  
 Operating Temperature: -55°C to 150°C  
 Insertions: >500,000

### ELECTRICAL SPECIFICATIONS

Impedance: 50  $\Omega$  characteristic  
 Pattern:  \* 2a @ .050 (1,27) pitch  
 Bandwidth: >10 GHz @ -1 dB  
 Loop Inductance: 1.50 nH @ .050 (1,27) pitch  
 Capacitance: 0.53 pF  
 Typical Resistance: <50 m $\Omega$   
 Current Carrying Capacity: 5 amps continuous  
 (Individual probe in free air @ ambient temperature)

### MATERIALS

Barrel: Beryllium copper, gold plated  
 Spring: Stainless steel, gold plated  
 Plunger: Full-hard beryllium copper, gold plated

### HOW TO ORDER

100881-001

\* (S=Signal, R=Return) For electrical specifications for alternate patterns, contact IDI or go to [www.idinet.com](http://www.idinet.com)  
 For fixturing information on semiconductor probes, see pages 120-121 of the Source Book.  
 Specifications subject to change. Dimensions in inches (millimeters)

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