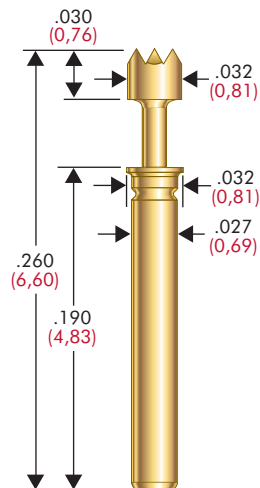


# Semiconductor Probes

NEW

## 101068 SEMICONDUCTOR PROBE



### PROBE SPECIFICATIONS

Device Pitch: .039 (1,00) or greater  
 Signal Path Length: .230 (5,84)  
 Force per Contact: 2.0 oz. @ .030 (0,76) travel  
 Maximum Compliance: .040 (1,02)  
 Operating Temperature: -55°C to 150°C  
 Insertions: >500,000

### ELECTRICAL SPECIFICATIONS

Impedance: 50  $\Omega$  characteristic  
 Bandwidth: 2.9 GHz @ -1 dB  
 Self Inductance: 1.21 nH @ .039 (1,00) pitch  
 Mutual Inductance:  
 0.10 nH @ .039 (1,00) pitch diagonal  
 0.22 nH @ .039 (1,00) pitch adjacent  
 Capacitance: 0.10 pF  
 Contact Resistance: <50 m $\Omega$   
 Current Carrying Capacity: 5 amps continuous  
 (Individual probe in free air @ ambient temperature)

### MATERIALS

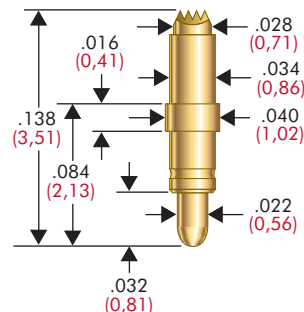
Barrel: Nickel/silver, gold plated  
 Spring: Stainless steel, gold plated  
 Plunger: Full-hard beryllium copper, gold plated

### HOW TO ORDER

101068-000

NEW

## 101150 SEMICONDUCTOR PROBE



### PROBE SPECIFICATIONS

Device Pitch: .050 (1,27) or greater  
 Signal Path Length: .118 (3,00)  
 Force per Contact:  
 000: 1.1 oz. @ .020 (0,51) travel  
 001: 0.7 oz. @ .020 (0,51) travel  
 Device Compliance: .014 (0,36)  
 DUT Board Compliance: .006 (0,15)  
 Maximum Compliance: .024 (0,61)  
 Operating Temperature: -55°C to 150°C  
 Insertions: >500,000

### ELECTRICAL SPECIFICATIONS

Impedance: 50  $\Omega$  characteristic  
 Bandwidth: 10 GHz @ -.724 dB  
 Self Inductance: 0.68 nH @ .050 (1,27) pitch  
 Mutual Inductance:  
 0.01 nH @ .050 (1,27) pitch diagonal  
 0.09 nH @ .050 (1,27) pitch adjacent  
 Capacitance: 0.037 pF  
 Contact Resistance: <25 m $\Omega$   
 Current Carrying Capacity: 5 amps continuous  
 (Individual probe in free air @ ambient temperature)

### MATERIALS

Barrel: Phosphor bronze, gold plated  
 Spring:  
 000: Stainless steel, passivated  
 001: Beryllium copper, precious metal plated  
 Plunger: Phosphor bronze, gold plated

### HOW TO ORDER

101150-000: 1.1 oz. spring  
 101150-001: 0.7 oz. spring

Specifications subject to change.  
 Dimensions in inches (millimeters)

For fixturing information on semiconductor probes,  
 see pages 122-123 of the Source Book.

# Mouser Electronics

Authorized Distributor

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IDI:  
101150-000