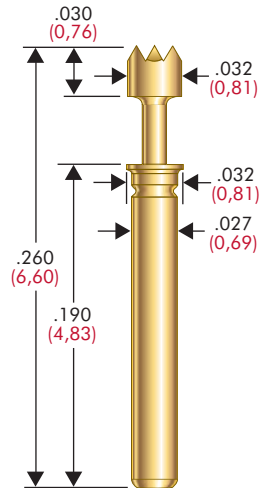


Semiconductor Probes

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 Ω 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 mΩ
 Current Carrying Capacity: 5 amps continuous
 (Individual probe in free air @ ambient temperature)

MATERIALS

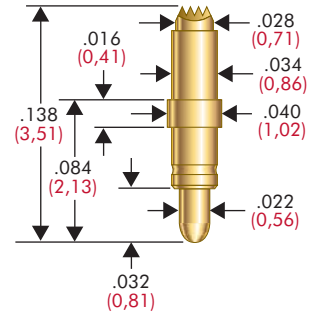
Barrel: Nickel/silver, gold plated
 Spring: Stainless steel, gold plated
 Plunger: Full-hard beryllium copper, gold plated

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 Ω 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 mΩ
 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.

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