

MICRO USB 2.0 CONNECTORS

OVERVIEW

Extremely small high reliability connectors comply with physical, electrical and environmental requirements of Micro USB standard (USB 2.0).

Space receptacles are available in a wide variety of mounting and termination configurations, permitting their use in various applications.



FEATURES

- More compact than Mini USB
- Offers standard, mid-mount, and reverse options
- Specified for up to 10,000 insertion cycles
- Replaces the need for adapters and power
- RoHS compliance and Lead-free
- Available in UL94V-0 flammability
- Supports On-The-Go (OTG)
- Full metal shielding

BENEFITS

- Highly suitable for interconnect solutions required by mobile phone makers
- Flexible application in various situations
- Ensures maximum receptacle-to-PCB retention
- Allows convenient recharging and communication
- Meets environmental, health and safety requirements
- High flammability rating
- Better accessibility and convenience for users
- For EMI/ESD protection



TECHNICAL INFORMATION

MATERIALS

- Contact: Copper Alloy
- Contact Area: 30μin. Au over nickel
- Solder Tail Area: Au flash over nickel
- Shield: Stainless steel
 - Pure Tin Plating: 10104110, 10104111, 10103592, 10103594
 - Matte Tin Plating: 10118192, 10118193 and 10118194
 - Nickel Plating: 10103593
- Housing: High temperature thermoplastic resin
 - Black color for B-type
 - Gray color for AB-type
- UL94V-0

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: Initial 30 mΩ max.; after $\Delta R = \pm 10 \text{ m}\Omega$ (Test condition: EIA-364-23)
- Insulation Resistance: Initial 1000MΩ min.; after 100MΩ min. (Test condition: EIA-364-21)
- Dielectric Withstanding Voltage: 100V AC for 1 minute; no breakdown (Test condition: EIA-364-20)
- Temperature Rise: 30°C max. (Test condition: EIA-364-70)

ENVIRONMENTAL

- Functional Temperature Range:
 - -55°C to +85°C, under test connectors mated without damage

MECHANICAL PERFORMANCE

- Mating/Un-mating Force (Initial)
- Durability
 - Contact Resistance: $\Delta R = \pm 10 \text{ m}\Omega$ max.
 - Appearance: No breakdown
 - Mating Cycles: 10,000 cycles at max. rated of 200 cycles per hour
 - Test Condition: EIA-364-09

SPECIFICATIONS

- GS-12-641 product specification

PACKAGING

- Tape & Reel
- Packing specification GS-14-1461, GS-14-1465 and GS-14-1466

TARGET MARKETS/APPLICATIONS

- Consumer
 - Camcorder
 - Smartphone
 - MP3 Player
 - Bluetooth Headphone
 - Smartwatch
 - Tablet
 - Reader
 - GPS
 - Laptop coolers
- Communication & Industrial
 - Field PC
 - Satellite Phone

PART NUMBERS

Description	Part Numbers
Micro USB 2.0 B Receptacle Reverse, DIP	10103592-0001LF
Micro USB 2.0 B Receptacle STD, Mid-mount	10103593-0001LF
Micro USB 2.0 B Receptacle STD, SMT+ DIP	10103594-0001LF
Micro USB 2.0 B Receptacle STD, SMT	10104110-0001LF
Micro USB 2.0 B Receptacle STD, SMT Micro-USB A/B Receptacle STD	10104111-0001LF
Micro USB 2.0 B Receptacle STD, SMT	10118192-0001LF
Micro USB 2.0 B Receptacle STD, 2 DIP Legs	10118193-0001LF
Micro USB 2.0 B Receptacle STD, 4 DIP Legs	10118194-0001LF

Mouser Electronics

Authorized Distributor

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<u>10118192-0001LF</u>	<u>10118193-0001LF</u>	<u>10118194-0001LF</u>	<u>10103592-0001LF</u>	<u>10103593-0001LF</u>	<u>10103594-0001LF</u>
<u>10104110-0001LF</u>	<u>10104111-0001LF</u>	<u>10118193-0002LF</u>	<u>10118192-0002LF</u>	<u>10118194-0011LF</u>	<u>10118194-0002LF</u>
<u>10118194-1001LF</u>	<u>10118194-0101LF</u>	<u>10118194-0012LF</u>	<u>10144745-0001LF</u>		