

## Micro USB 2.0 Connectors

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.



### TARGET MARKETS



### 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

### MATERIAL

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

### MECHANICAL PERFORMANCE

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

### APPROVALS AND CERTIFICATION

- LV214 – Severity 2 Compatible

### SPECIFICATION

- GS-12-641 product specification

### PACKAGING

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

### ENVIRONMENTAL

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

### TARGET MARKETS/APPLICATIONS



Satellite Phone



Camcorder  
Smart Phone  
MP3 Player  
Bluetooth Headphone  
Smart Watch  
Tablet  
Reader  
GPS  
Laptop Coolers



Field PC  
Satellite Phone

## PART NUMBERS

Description	Configuration
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