### 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 ∆R=±10 mΩ (Test condition: EIA-364-23)
• Insulation Resistance: Initial 1000 MΩ 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: ∆R=±10mΩ 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

For more information, please contact: Communications@fci.com or visit us at www.fci.com

Disclaimer
Please note that the above information is subject to change without notice.
## PART NUMBERS

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

For more information, please contact: Communications@fci.com or visit us at www.fci.com

**Disclaimer**

Please note that the above information is subject to change without notice.