

Amphenol

COMMUNICATIONS SOLUTIONS

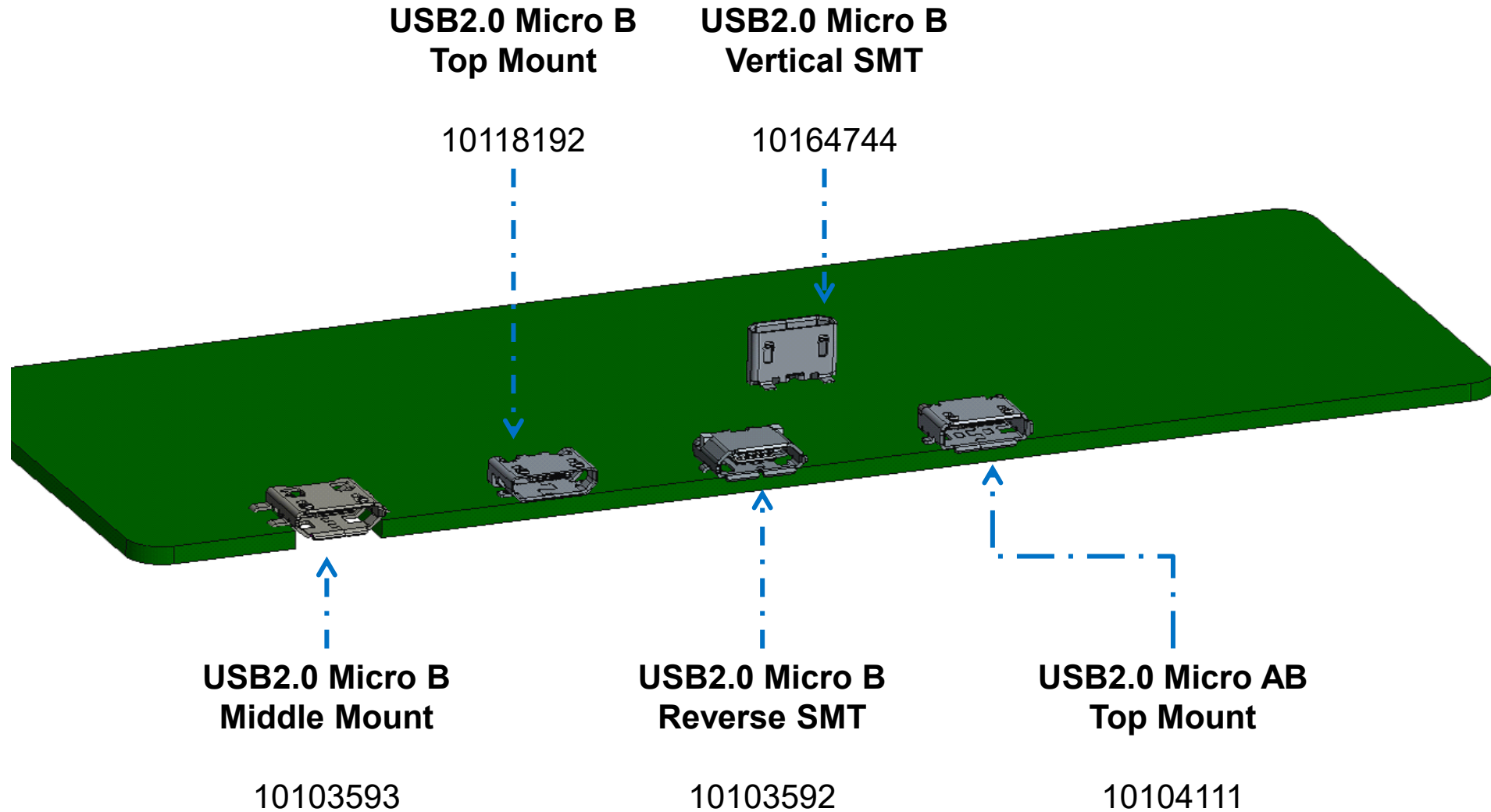
FCI Basics USB 2.0 Micro-B & AB Product Presentation

Feb 20th 2022

 **FCi Basics**



- FCI Basics offer Micro USB2.0, develops a wide range of Micro USB connectors, includes right angle and vertical type.
- FCI Basics Micro USB2.0 solution are available in through hole mount and surface mount, as well as middle mount, support IR reflow solder.
- FCI Basics Micro USB2.0 solution comply with USB IF specification, support 1.8A current rating (Power Pin 1&5) with higher durability (up to 10,000 cycles), support OTG(On-the-go) function. Data transmission Super Speed 480Mbps.
- FCI Basics Micro USB 2.0 solution are ideal for charging and data transmission applications in consumer electronic products, phone, pad, digital camera etc...



Specifications

- Meet USB 2.0 specification
- Data transmission Super Speed 480Mbps
- Support hot plugging
- Support OTG (On-the-go) function

Electrical Performances

- Low Level Contact Resistance
 - Initial 30mΩ Max
 - After test 40mΩ Max
- Current Rating:
 - Signal contacts only (2, 3 and 4): 1A (MIN) per single contact.
 - With power applied contacts (1, 5): 1.8A for power contacts 1 and 5 at the same time 0.5A for contact 2, 3 and 4.
- Insulation Resistance: >1000MΩ @500V DC 2Min
- Dielectric Withstanding Voltage: 100V AC for 1 minute

Materials

- Housing : High temperature thermoplastic
- Shell : Cooper Alloy or Stainless Steel
- Terminal: Cooper Alloy

Mechanical Performance

- Durability: 10,000 cycles
- Insertion Force: 35N Max.
- Withdrawal Force: 8 N Min
- Point of contact: 5

Environmental

- Operating Temperature: -55°C to +85°C
- Storage Temperature: -55°C to +85°C
- RoHS compliant
- Lead free, Halogen free

Packaging

- Tape and reel
- Tray
- Tube

| Features | Benefits |
|---|--|
| More compact than Mini USB | Highly suitable for interconnect solutions required by consumer electronic products |
| Offers standard, mid-mount, and reverse options | Flexible application in various situations |
| Specified for up to 10,000 insertion cycles | Ensures maximum receptacle-to-PCB retention |
| Replaces the need for adapters and power | Allows convenient recharging and communication |
| Supports On-The-Go (OTG) | Better accessibility and convenience for users |
| High Temperature thermoplastic material | IR reflow Compatible |
| Halogen-free | Aid efforts to minimize the use of environmentally sensitive materials in the electronics industry |
| Lead-Free and RoHS compliant | Meets environmental, health and safety requirements |

| Description | Part Numbers |
|---|------------------|
| USB 2.0 Type Micro B Receptacle Right Angle SMT 30u" 5Pin | 10118192-0001LF |
| USB 2.0 Type Micro B Receptacle Vertical SMT 30u" 5Pin | 10164744-00011LF |
| USB 2.0 Type Micro B Receptacle Right Angle Reverse SMT 30u" 5Pin | 10103592-0001LF |
| USB 2.0 Type Micro B Receptacle Right Angle SMT 30u" 5Pin | 10103593-0001LF |
| USB 2.0 Type Micro AB Receptacle Right Angle SMT 30u" 5Pin | 10104111-0001LF |

Consumer

- Phone



- Door bell



- Digital Camera



- Bluetooth headphone



Medical

- Ultrasound



- Breathing machine



Industrial

- Field PC



- Industry Computer



THANK
YOU