

# Amphenol

COMMUNICATIONS SOLUTIONS

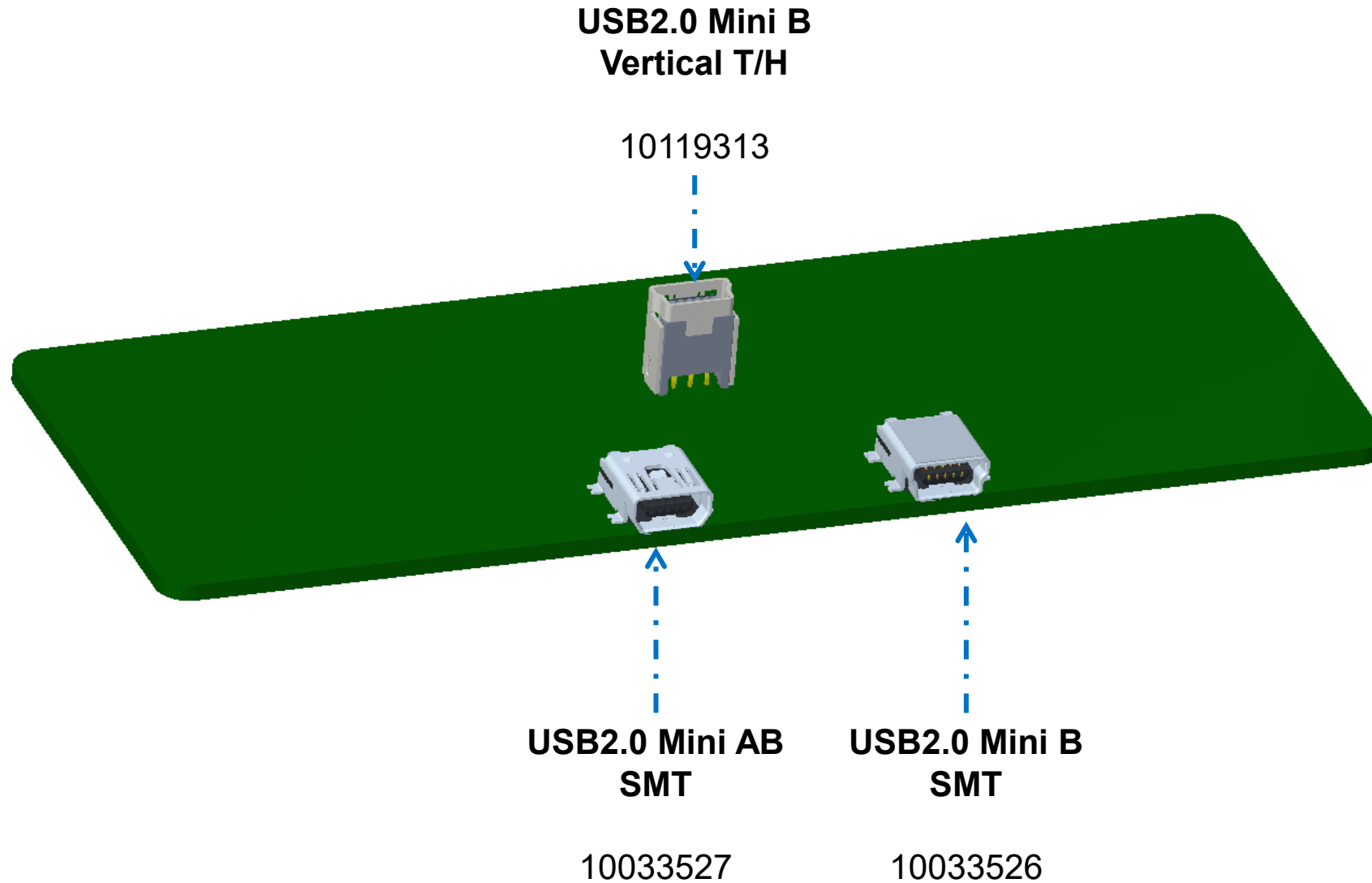
## FCI Basics USB 2.0 Mini B & AB Product Presentation

Feb 20<sup>th</sup> 2022

 **FCi Basics**



- FCI Basics offer USB 2.0 Mini B & AB solution, includes right angle and vertical type, available in both SMT and through-hole receptacles.
- Delivers a data transfer rate up to 480Mb/s with high performance on current rating (1A per contact) and durability (up to 5000 cycles).
- The connector takes up only about 1/8 of the space of standard USB Type B interface.
- Five contacts with one contact reserved for future use in host identification between devices.
- USB 2.0 Mini B & AB Ideal for consumer applications.
- Halogen free and lead free, ROHS compliant.



## Specifications

- Meet USB 2.0 specification
- Data transmission Super Speed 480Mbps
- Support hot plugging

## Electrical Performances

- Low Level Contact Resistance
  - Initial 50mΩ Max
  - After test 50mΩ Max
- Current Rating: 1.A per contact (See Datasheet)
- Insulation Resistance: >100MΩ
- Dielectric Withstanding Voltage: 100V AC

## Environmental

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

## Materials

- Housing : High temperature thermoplastic
- Shell : Cooper Alloy or Stainless Steel
- Terminal: Cooper Alloy with 30u” Au plating

## Mechanical Performance

- Durability: 5000 cycles
- Insertion Force: 35N Max.
- Withdrawal Force: 7N Min
- Point of contact: 5

## Packaging

- Tape and reel
- Tray

Features	Benefits
Supports USB 2.0 Hi-Speed 480Mb/s communication	High signal integrity and minimal user waiting time
Robust design and high durability up to 5000 cycles	Meet customer's demanding requirements
Supports On-The-Go (OTG) specification	Accessible and convenient for users
Smaller interface for portable devices	Suitable for data transmission, media and charging applications
High Temperature thermoplastic material	IR reflow Compatible
Full metal shielding	Protection from electromagnetic interference (EMI) and electrostatic discharge (ESD)
Halogen-free & Lead-Free	Aid efforts to minimize the use of environmentally sensitive materials in the electronics industry
RoHS compliant	Meets environmental, health and safety requirements

Description	Part Numbers
USB 2.0 Type Mini B Receptacle Right Angle SMT 30u" 5Pin	10033526-N3212MLF
USB 2.0 Type Mini B Receptacle Vertical Through Hole 30u" 5Pin	10119313-301CLF
USB 2.0 Type Mini AB Receptacle Right Angle SMT 30u" 5Pin	10033527-N3212MLF

## Consumer

- Phone



- Door bell



- Digital Camera



- Bluetooth headphone



## Medical

- Ultrasound



- Breathing machine



## Industrial

- Field PC



- Industry Computer



THANK  
YOU