

# USB 2.0 Type C

## USB 2.0 TYPE C, LITE VERSION

Lite version USB 2.0 Type C provides cost-effective, full charge capabilities of Type-C with streamlined USB2.0 function.

It is ideal for consumer applications such as wearable devices, Smart home devices, E-Cigarettes, and especially for TWS (True Wireless Stereo), headphone markets.

- Competitive price
- High-speed transmission up to 480Mb/s
- Power rating up to 240W
- Optimized contact design for superior signal integrity performance
- Reversible plug and cable orientation



### TARGET MARKETS



### FEATURES

- Lite version
- High-speed transmission up to 480Mb/s
- High power and fast charging
- Various mounting type (Top, Middle, Vertical, Upright)
- Reversible plug orientation ensures easy insertion
- Mid-plate tongue design

### BENEFITS

- 16 pin with competitive cost
- High speed data communication
- Extended 5A current rating for USB Power delivery and up to 240W
- Offer design flexibility
- Connect cable without worrying about the plug's orientation or the cable's direction
- Ensure high reliability while preventing damage from connector mishandling

## TECHNICAL INFORMATION

### MATERIAL

- Housing: PA46 or LCP, receptacle: PA46 or LCP
- Molding Housing: Black, high temperature plastic
- Top Terminal: Copper Alloy
- Bottom Terminal: Copper Alloy
- Mid Plate: Stainless steel, Nickel 30µin min.
- Outer Shell: Stainless steel, solder Nickel 30µin min.
- Main Shell: Stainless steel, NI plated or leaning
- Small Shell: Stainless steel, NI plated or cleaning
- LIM: Silica gel, Black

### MECHANICAL PERFORMANCE

- Durability: 10000 cycles
- After Durability Extraction Force: 6~20N
- Insertion Force: 5~20 N
- Extraction Force: 8~20 N

### ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: 40mΩ max.
- Insulation Resistance: 100mΩ min.
- Contact Current Rating: 5A max.
- Dielectric Withstanding Voltage: 100VAC

### PACKAGING

- Tape & Reel

### SPECIFICATION

- Amphenol Product Specification: SSN002

### ENVIRONMENTAL

- Operation Temperature Range: -40°C to +85°C

### APPROVALS AND CERTIFICATION

- RoHS
- Halogen-free

### TARGET MARKETS/APPLICATIONS



Wearable Devices  
Power Banks  
Smart Home Devices  
E-Cigarettes  
TWS (True Wireless Stereo) Headphone Markets

## PART NUMBERS

Description	Part Numbers
USB2.0, Type C, Receptacle, R/A, Top mount, Center Height 1.68mm, Single Row SMT	12402012E212A
USB2.0, Type C, Receptacle, R/A, Mid mount, Center Height 0.65mm, Single Row SMT	12401948E412A
USB2.0, Type C, Receptacle, R/A, Mid mount, Center Height 0.97mm, Single Row SMT	12402100E512A
USB2.0, Type C, Upright, Dual DIP	12402054M611A
USB2.0, Type C, Receptacle, R/A, Mid mount, Center Height 0.52mm, Single Row SMT	GSB1C4621DS2HR
USB2.0, Type C, Receptacle, R/A, Mid mount, Center Height 0.58mm, Single Row SMT	GSB1C4621DS1HR
USB2.0, Type C, Receptacle, R/A, Mid mount, Center Height 0.78mm, Single Row SMT	GSB1C4621DSHR
USB2.0, Type C, Vertical, Length 6.4mm, Single Row SMT	GSB1CA11101DSHR