

USB 3.2 GEN 1 Type Micro B Receptacle – GSB343 Product Series

As SuperSpeed USB, this upgraded interface offers a number of enhanced features. USB 3.0 (USB 3.1 GEN 1) now operates with full-duplex signaling over two differential pairs, improving host-directed simultaneous-by-directional communication.

- Over 10X performance increase over USB 2.0
- Backward compatible with USB 2.0
- High-speed 5Gb/s transmission
- Optimized Power Efficiency
- Fast Sync-N-Go



TARGET MARKETS



FEATURES

- 10 Positions, USB 3.1 GEN 1 specification compliance
- Optional DIP & SMT for shell application
- Robust two layer shells design
- Super speed up to 5 Gb/s transmission
- Optimized design on shell structure
- Rugged gold-plated leaf contact for reliability needs
- 4 solder pad with solderable at shell bottom ensure mounting force
- Halogen-free material

BENEFITS

- Superior in tactile on plug operation with feeling like Snap in and catch
- Shell reliable mounted on PCB
- Reliable Co-planarity for SMT process
- High performance in signal integrity
- Full metal shielding for EMI / RFI / ESD protection
- High gold plating prevents corrosion
- Great real estate space savings
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: High temperature thermoplastic, complies with UL 94V-0, optional colour
- Shell: Stainless steel, nickel plating overall
- Contact: Copper alloy, selective gold plated on contact area, 100u" min. matte tin plated on soldering tail, 50u" min. nickel under-plated overall

MECHANICAL PERFORMANCE

- Insertion Force: 35N (3.57 Kgf) max.
- Withdrawal Force: 10N (1.02 Kgf) min., after test, 8N (0.81Kgf)
- Durability: 10,000 cycle unplug/ plug.
- Peel strength: 10,000 cycle unplug/ plug.
- Vibration: No disturbance greater than 1µs
- Mechanical Shock: No disturbance greater than 1µs

ELECTRICAL PERFORMANCE

- Low Level Contact: Initial 30mΩ max. for VBUS and GND contacts, 50mΩ max. for all other contacts, ΔR:10mΩ max.
- Insulation: 100MΩ min.
- Voltage: 30VDC
- Current: 1.8A max.
- Mated Connection Impedance: 90Ω±15Ω (85Ω ~105Ω)

ENVIRONMENTAL

- Operating Temperature Range: -40°C~ 85°C
- Shipping and Storage Temperature: -40°C~ 85°C
- Thermal Shock: No physical damage
- Cyclic Temperature and Humidity: No physical damage
- Thermal shock: No evidence of physical damage
- Temperature Life: No physical damage
- Solderability: 95% of immersed area, No voids and pin holes
- Mixed Flowing Gas: No physical damage
- Soldering Heat: No physical damage

SPECIFICATIONS

- Amphenol Specification: PS-7440/PS-7428

PACKAGING

- Tape & Reel

TARGET MARKETS/APPLICATIONS



Digital Media Player
ISDN / PBXs
TV Panel
POS System
Tablet PCs
HDD
Set Top Box
Gaming
Mobile Phone
GPS
Infotainment Systems

PART NUMBERS

Description	Part Numbers
USB 3.2 GEN 1 Micro B, Receptacle, Right Angle SMT, 10 Positions, Shell with Nickel Plating, 30µ" Gold	GSB3431X3XHR
USB 3.2 GEN 1 Micro B, Receptacle, Right Angle SMT, 10 Positions, Shell DIP with Nickel Plating, 30µ" Gold	GSB343K33XXHR
USB 3.2 GEN 1 Micro B, Receptacle, Right Angle SMT, High Rise, 5.2mm Height, 10 Positions, Shell with Nickel Plating, 30µ" Gold	GSB343T33XHR

PART NUMBER SELECTORS

