

■ Universal Serial Bus.

USB 3.0 Type A, Right Angle, Plug, SMT, Standard Type

GSB316441CEU

Features & Benefits

- Fully compliant with USB2.0 & 3.0 specification.
- Provides the interface for Super Speed up to 5 Gbps data rate.
- Rugged Gold-plated leaf contact withstand up to 5000 cycles.
- High temperature plastic for SMT process and Halogen Free solution.
- Full metal shielding for EMI / RFI / ESD protection.
- Application for Board to Board and wire to Board use.
- Other cable lengths and customer design available.
- RoHS compliance.

Mechanical

- Insertion Force: 35.0N max.
- Extraction Force: 8.0N min.
- Co-planarity: 0.08mm max.
- High Durability class: 5000 cycles min.

Electrical

- Voltage: 30.0 VA
- Current: Pin 1 & Pin 4 -- 1.8A.
Other Pins -- 0.25A min
- Contact Resistance: Pin 1 & Pin 4 -- 30m Ω Max.
Other Pins -- 50m Ω Max.
- Dielectric Withstanding Voltage: 100 VAC.
- Insulation Resistance: 100M Ω min
- Impedance: 90 Ω + / -15 Ω @ 50 ps rise time (20% ~ 80 %).



Application

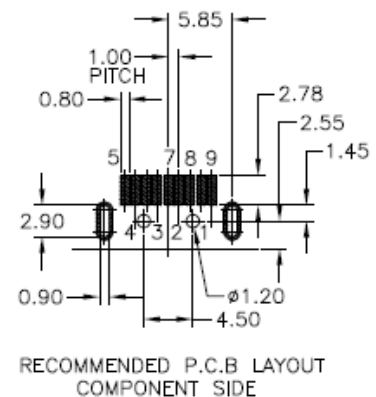
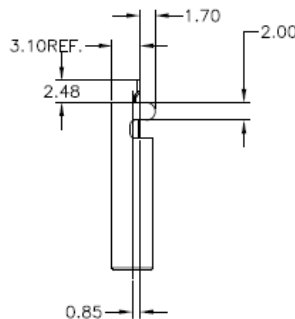
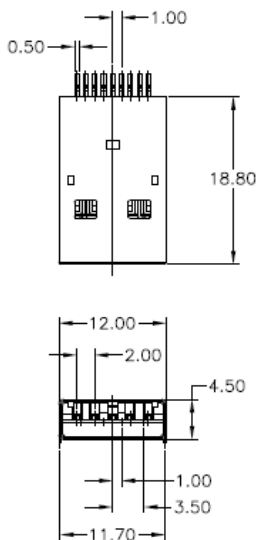
- Portable device: Flash Drive.

RoHS Compliance

Dimension / P.C Board Layout

Design in: mm

Part No	Plating	Packaging	Circuit No.
GSB316441CEU	2 μ " Gold+ 30 μ " Pd-Ni	Tape & Reel	9



■ Universal Serial Bus.

USB 3.0 Type B. Right Angle, Receptacle, Through Hole, Standard Type.

Features & Benefits

- Fully compliant with USB2.0 & 3.0 specification.
- Provides the interface for Super Speed up to 5 Gbps data rate.
- 5 metal friction lock grounding fingers and Polarization plastic design ensure plug retention.
- Rugged Gold-plated leaf contact withstand up to 5000 cycles.
- High temperature plastic for SMT process and Halogen Free solution.
- Two Board Lock hold-down ensure mounting Force.
- Full metal shielding for EMI / RFI / ESD protection.

Application

- HDD Storage Device.
- Mobile Phone.
- GPS.
- Multiple Media Player.

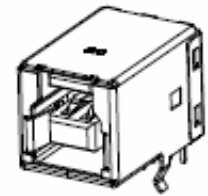
Physical

- Housing: 94V-0 High Temperature, Thermoplastic, with Glass Filled, Blue color (Pantone 300C).
- Spacer: 94V-0 high temperature, thermoplastic, with Glass Filled, Black color.
- Terminal: Copper Alloy.
- Shell: Copper Alloy.

Mechanical

- Insertion Force: 35.0N max.
 - Extraction Force: 8.0N min.
 - Standard Durability class: 1500 cycles min.
 - High Durability class: 5000 cycles min.
- #### Electrical
- Voltage Rating : 30V AC.
 - Current Rating : Pin 1 & Pin 4 -- 1.8A.
Other Pins -- 0.25A min.
 - Contact Resistance : Pin 1 & Pin 4 -- 30mΩ Max
Other Pins -- 50mΩ Max.
 - Dielectric Withstanding Voltage: 100 VAC.
 - Insulation Resistance : 100MΩ Min.
 - Impedance: 90Ω +/-15 Ω@ 50 ps rise time (20% ~ 80 %).

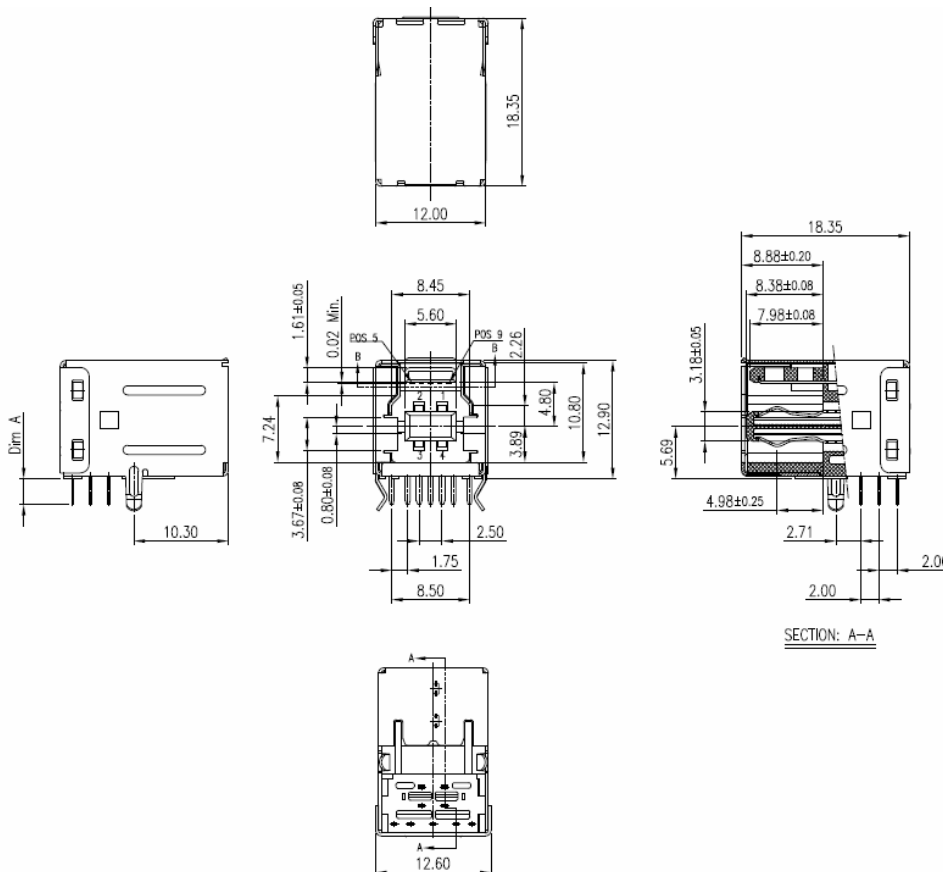
GSB3211XXXWEU



RoHS Compliance

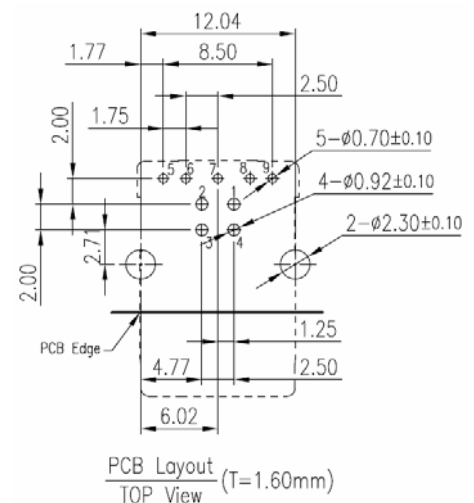
Dimension / P.C Board Layout

Design in: mm



PART NO. GSB3211XXXWEU

CONTACT FINISH	TAIL LENGTH
1: GOLD FLASH	1: 2.80 MM
2: 5 μ" GOLD	2: 3.30 MM
3: 30 μ" GOLD	
	COLOR
	1: BLUE
	3: BLACK



■ Universal Serial Bus.

USB 3.0 Type A. Right Angle, Receptacle, Through Hole, Standard Type.

Features & Benefits

- Fully compliant with USB2.0 & 3.0 specification.
- Provides the interface for Super Speed up to 5 Gbps data rate .
- 5 metal friction lock grounding fingers and Polarization plastic design ensure plug retention.
- Rugged Gold-plated leaf contact withstand up to 5000 cycles.
- High temperature plastic for SMT process and Halogen Free solution.
- Two Fork Lock hold-down ensure mounting Force.
- Full metal shielding for EMI / RFI / ESD protection.

Application

- **HDD Storage Device.**
- **Mobile Phone.**
- **GPS.**
- **Multiple Media Player.**

Physical

- **Housing:** High Temperature Thermoplastic UL 94V-0, with 30 % GF, Color: blue (Pantone 300C).
- **Spacer:** 94V-0 high temperature, thermoplastic, with 30 % GF, Blue color (Pantone 300C).
- **Terminal:** Copper Alloy.
- **Shell:** Copper Alloy.

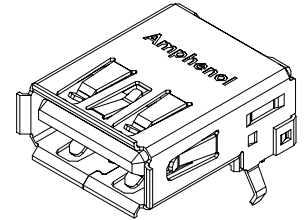
Mechanical

- **Insertion Force: 35.0N max.**
- **Extraction Force: 8.0N min.**
- **Standard Durability class: 1500 cycles min.**
- **High Durability class: 5000 cycles min.**

Electrical

- **Voltage Rating : 30V AC.**
- **Current Rating : Pin 1 & Pin 4 -- 1.8A.**
Other Pins -- 0.25A min.
- **Contact Resistance : Pin 1 & Pin 4 -- 30mΩ Max**
Other Pins -- 50mΩ Max.
- **Dielectric Withstanding Voltage: 100 VAC.**
- **Insulation Resistance : 100MΩ Min.**
- **Impedance: 90Ω +/-15 Ω@ 50 ps rise time**
(20% ~80%).

GSB311X1HR

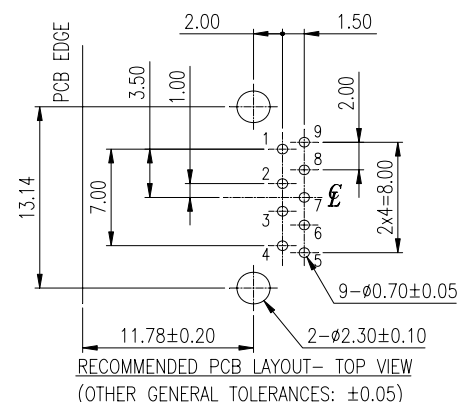
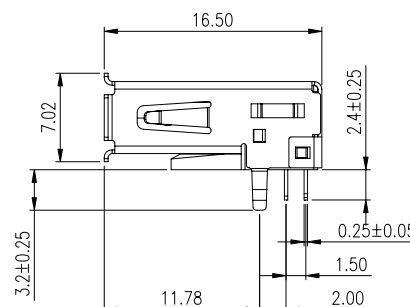
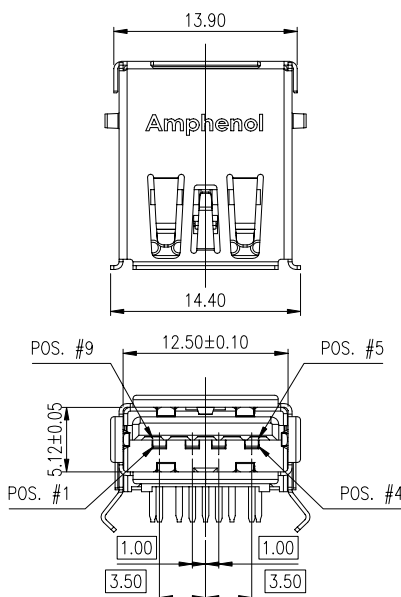


RoHS Compliance

Dimension / P.C Board Layout

Design in: mm

Part No	Plating	Packaging	Circuit No.
GSB311111HR	Gold Flash	Tray	9
GSB311131HR	30 μ " Gold		



■ Universal Serial Bus.

USB 3.0 Type A, Right Angle, Receptacle, Through Hole, Reverse Sink Type.

Features & Benefits

- Fully compliant with USB2.0 & 3.0 specification.
- Provides the interface for Super Speed up to 5 Gbps data rate.
- 5 metal friction lock grounding fingers and Polarization plastic design ensure plug retention.
- Rugged Gold-plated leaf contact withstand up to 5000 cycles.
- High temperature plastic for SMT process and Halogen Free solution.
- SMT solder pad of hold-down ensure mounting Force.
- Full metal shielding for EMI / RFI / ESD protection.

Application

- HDD Storage Device.
- Mobile Phone.
- GPS.
- Multiple Media Player.

Physical

- Housing: High Temperature Thermoplastic UL 94V-0, with 30 % GF, Color: blue.
- Spacer: 94V-0 high temperature, thermoplastic, with 30 % GF, Black color.
- USB 2.0 terminal: Phosphor Bronze.
- USB 3.0 terminal: Brass.
- Shell: Stainless steel.

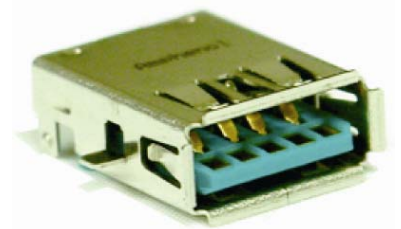
Mechanical

- Insertion Force: 35.0N max.
- Extraction Force: 8.0N min.
- Standard Durability class: 1500 cycles min.
- High Durability class: 5000 cycles min.

Electrical

- Voltage Rating : 30V AC.
- Current Rating : Pin 1 & Pin 4 -- 1.8A.
Other Pins -- 0.25A min.
- Contact Resistance : Pin 1 & Pin 4 -- 30m Ω Max
Other Pins -- 50m Ω Max.
- Dielectric Withstanding Voltage: 100 VAC.
- Insulation Resistance : 100M Ω Min.
- Impedance: 90 Ω $\pm$ 15 Ω @ 50 ps rise time (20% ~ 80%).

GSB311B41EU

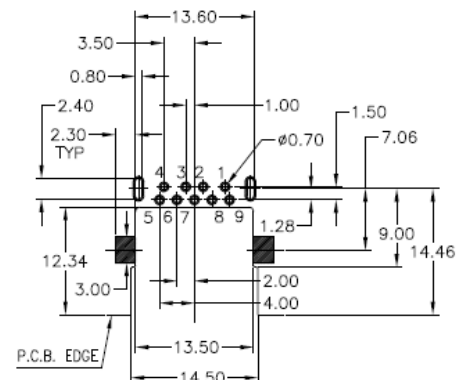
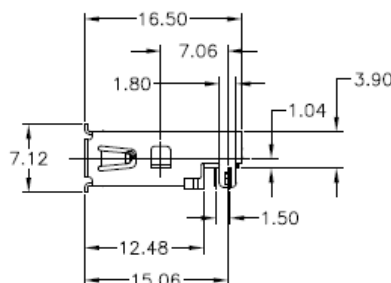
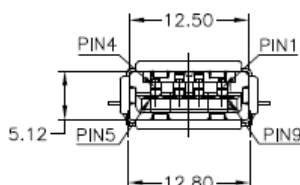
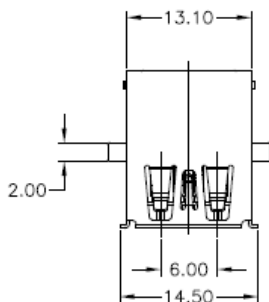


RoHS Compliance

Dimension / P.C Board Layout

Design in: mm

Part No	Plating	Packaging	Circuit No.
GSB311B41EU	2 μ " Gold + 30 μ " Pd-Ni	Tape & Reel	9



■ Universal Serial Bus.

USB 3.0 Type A. Right Angle, Receptacle, Through Hole, Reverse Type.

Features & Benefits

- Fully compliant with USB2.0 & 3.0 specification.
- Provides the interface for Super Speed up to 5 Gbps data rate.
- 5 metal friction lock grounding fingers and Polarization plastic design ensure plug retention.
- Rugged Gold-plated leaf contact withstand up to 5000 cycles.
- High temperature plastic for SMT process and Halogen Free solution.
- Two Fork Lock hold-down ensure mounting Force.
- Full metal shielding for EMI / RFI / ESD protection.

Application

- HDD Storage Device.
- Mobile Phone.
- GPS.
- Multiple Media Player.

Physical

- Housing: High Temperature Thermoplastic UL 94V-0, with 30 % GF, Color: blue.
- Spacer: 94V-0 high temperature, thermoplastic, with 30 % GF, Black color.
- USB 2.0 terminal: Phosphor Bronze.
- USB 3.0 terminal: Brass.
- Shell: Stainless steel.

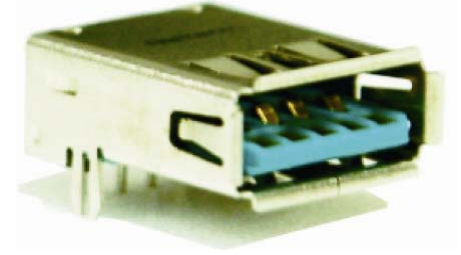
Mechanical

- Insertion Force: 35.0N max.
- Extraction Force: 8.0N min.
- Standard Durability class: 1500 cycles min.
- High Durability class: 5000 cycles min.

Electrical

- Voltage Rating : 30V AC.
- Current Rating : Pin 1 & Pin 4 -- 1.8A.
Other Pins -- 0.25A min.
- Contact Resistance : Pin 1 & Pin 4 -- 30mΩ Max
Other Pins -- 50mΩ Max.
- Dielectric Withstanding Voltage: 100 VAC.
- Insulation Resistance : 100MΩ Min.
- Impedance: 90Ω +/-15 Ω @ 50 ps rise time (20% ~ 80%).

GSB311AX1EU

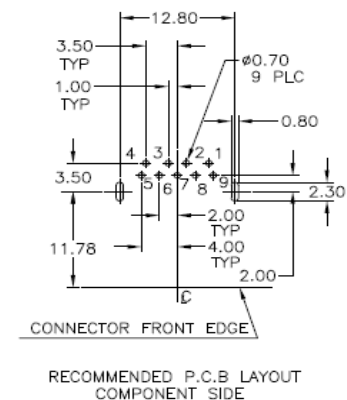
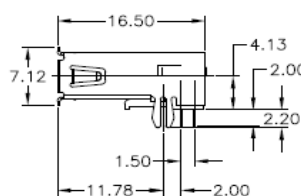
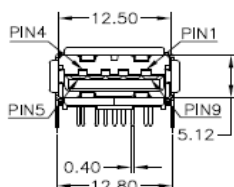
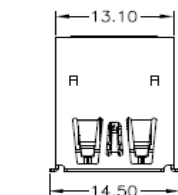


RoHS Compliance

Dimension / P.C Board Layout

Design in: mm

Part No	Plating	Packaging	Circuit No.
GSB311A21EU	15 μ" Flash	Tape & Reel	9
GSB311A41EU	2 μ" Gold+30 μ" Pd-Ni		



■ USB 3.0 Micro Connector- Universal Serial Bus.

Micro-B Receptacle, 0.65mm Pitch, Right Angle, SMT, Standard Type.

Features & Benefits

- **Micro-USB(USB3.0) Standard Compliance.**
- **Provides the interface for Super Speed up to 5 Gbps data rate .**
- **Small and durable more than mini –USB.**
- **Stable signal transmission.**
- **Materials use for lead-free reflow process, Halogen Free , and RoHS.**
- **6 Soldered Pads at shell ensure No Damage when :
Peel Strength 150N Min applied
Wrenching Strength 25N Max applied.**
- **Greater real estate space savings.**
- **Reliable Co-planarity within a 0.08mm.**

Reference Information

- **Packaging : Tape & Reel.**
- **Durability : 10,000 Cycles Min.**
- **Insertion Force: 35N Max.**
- **Withdrawal Force: 8N Min. After 10,000 cycles.**

Application

- **HDD Storage Device.**
- **Mobile Phone.**
- **GPS.**
- **Multiple Media Player.**

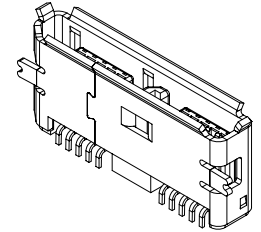
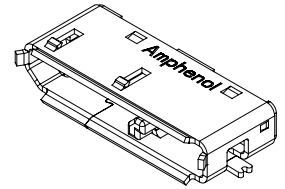
Physical

- **Housing:** High Temperature Thermoplastic
UL 94V-0, Color: Black.
- **Contact:** Copper Alloy.
- **Shell:** Stainless Steel.
- **Contact Plating:** Gold Flash overall.
Contact Area— $30\ \mu$ " Gold.
- **Shell Plating:** Plated Gold at the Soldered
Pad Area.

Electrical

- **Voltage Rating : 30V AC.**
- **Current Rating : Other Pins-- 0.25A min.
Pin 1 & Pin 5-- 1.8A.
Signal Pin-- 1A. (USB2.0)**
- **Contact Resistance : Pin 1 & Pin 5 -- 30mΩ Max
Other Pins -- 50mΩ Max.**
- **Withstanding Voltage: 100 VAC.**
- **Insulation Resistance : 100MΩ Min.**
- **Operating Temperature: -20℃ to +60℃**
- **Impedance: 90Ω +/-15 Ω@ 50 ps rise time
(20% ~80%).**

GSB343133HR



RoHS Compliance

Dimension / P.C Board Layout

Design in: mm

