



A collection of various electronic connectors, including RJ45, D-sub, and BNC types, shown in different colors and configurations. The connectors are arranged on a white background with a faint geometric pattern. The components include: a blue RJ45 connector, a white RJ45 connector, a black RJ45 connector, a white D-sub connector, a black D-sub connector, a white BNC connector, a black BNC connector, and several smaller connectors of various shapes and sizes.

SERIES 896, 897 • UNIVERSAL SERIAL BUS 3.0 • SOCKETS

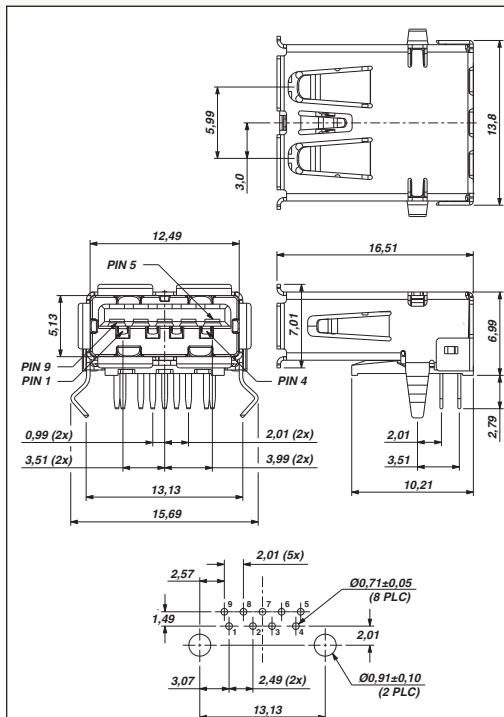


FIG. 1

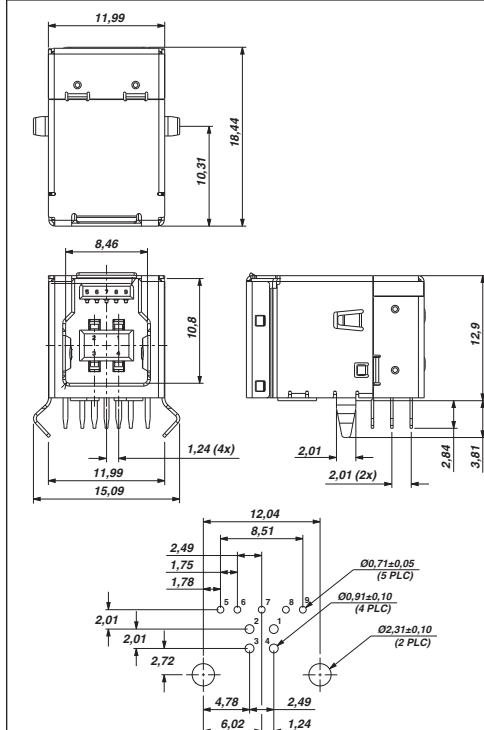
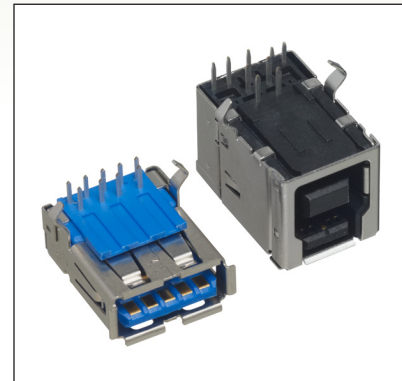


FIG. 2

- USB 3.0 receptacles for through-hole mount
- Plug retention tabs
- Kinked locating legs for secure PCB retention
- Fully shielded
- Fully backwards compatible with USB 2.0
- 10X faster than USB 2.0 and provides optimized power efficiency
- Packaged in trays:
896-46-009-90-300000 - 100 pieces per tray
897-46-009-90-300000 - 80 pieces per tray



ORDERING INFORMATION

FIG. 1	USB 3.0 Type A Receptacle, Single, Through-Hole
	896-46-009-90-300000
FIG. 2	USB 3.0 Type B Receptacle, Single, Through-Hole
	897-46-009-90-300000

Technical Specifications

Materials:

Terminals: Copper Alloy, Tin-Plated
Contacts: Copper Alloy, Gold Flash over PdNi
Casing and Shield: Stainless Steel
Insulator material: High temperature thermoplastic rated UL94V-0

RoHS-2
2011/65/EU

Ratings:

Voltage: 30VAC (rms)
Current: 1.5A PWR/GND pins
All housing materials rated for "lead-free" soldering up to 260° C

Electrical:

Contact resistance: 30mΩ max. for power and ground pins
50mΩ max. for all others
Insulation resistance: 100MΩ min.
Dielectric withstanding voltage: 100VAC at sea level
Capacitance: 2pF max.

Mechanical:

Random vibration: No discontinuity >1μs per EIA 364-28, cond. VII, letter D
Physical shock: No discontinuity >1μs per EIA 364-27, condition H
Durability: 5000 cycles min. per EIA 364-09
Mating force: 35 Newtons max. per EIA 364-13
Unmating force: Initial - 10 Newtons min. per EIA 364-13
After test - 8 Newtons min. per EIA 364-13

Environmental:

Thermal shock per EIA 364-32, condition I
Humidity per EIA 364-31
Temperature life per EIA 364-17, method A
Solderability per EIA 364-52, category 2

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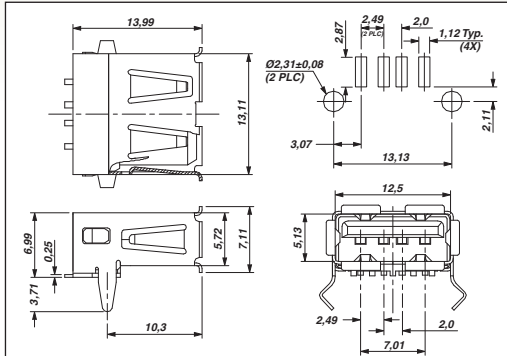


FIG. 1

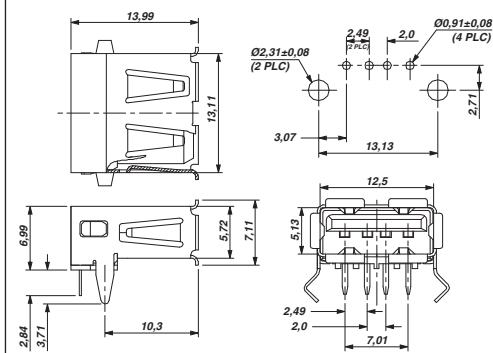


FIG. 2

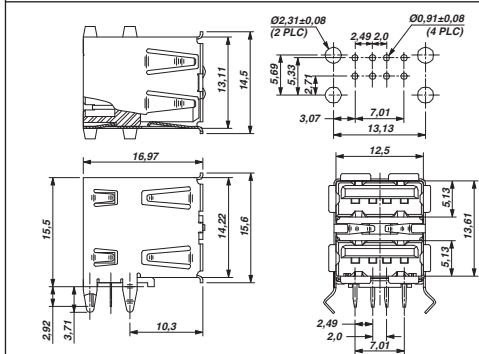


FIG. 3

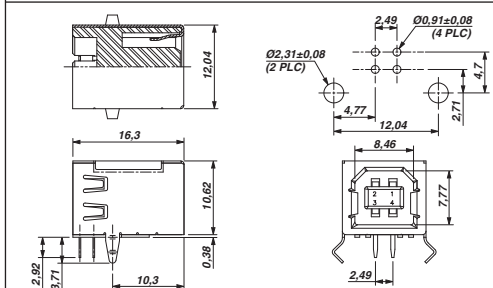
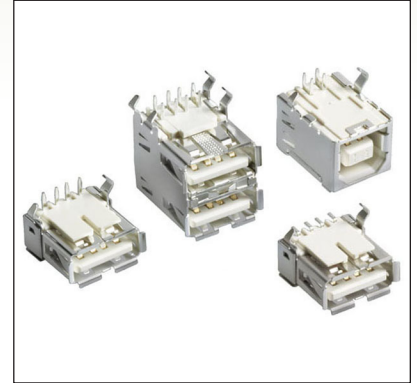


FIG. 4

- USB receptacles for through-hole and surface mount
- Plug retention tabs
- Kinked locating legs for secure PCB retention
- Fully shielded
- Fully compatible with USB 1.0 and 2.0 specifications
- Passes 16MHz signal attenuation per ASTM-D-4566
- Packaged in trays, 150 pieces per tray



ORDERING INFORMATION

FIG. 1	Type A Receptacle, Single, Surface Mount
	896-43-004-00-000000
FIG. 2	Type A Receptacle, Single, Through-Hole
	896-43-004-90-000000
FIG. 3	Type A Receptacle, Double, Through-Hole
	896-43-008-90-000000
FIG. 4	Type B Receptacle, Single, Through-Hole
	897-43-004-90-000000

Technical Specifications

Materials:

Terminals: Copper Alloy, Tin-Plated
Casing and Shield: Stainless Steel
Insulator material: High temperature thermoplastic rated UL94V-0

Ratings:

Voltage: 30VAC (rms)
Current: 1A max. per contact for 30°C temperature rise
All housing materials rated for "lead-free" soldering up to 260° C

Electrical:

Contact resistance: 30mΩ max.
Insulation resistance: 1000MΩ min.
Dielectric withstanding voltage: 750VAC at sea level
Capacitance: 2pF max.

Mechanical:

Random vibration: No discontinuity >1μs per EIA 364-28, cond. V, letter A
Physical shock: No discontinuity >1μs per EIA 364-27, condition H
Durability: 1500 cycles min. per EIA 364-09
Mating force: 35 Newtons max. per EIA 364-13
Unmating force: 10 Newtons min. per EIA 364-13

Environmental:

Thermal shock per EIA 364-32, condition I
Humidity per EIA 364-31, method II, condition A
Temperature life per EIA 364-17, condition 3, method A

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SERIES 897 • UNIVERSAL SERIAL BUS 3.0 MICRO-B • SURFACE MOUNT SOCKETS

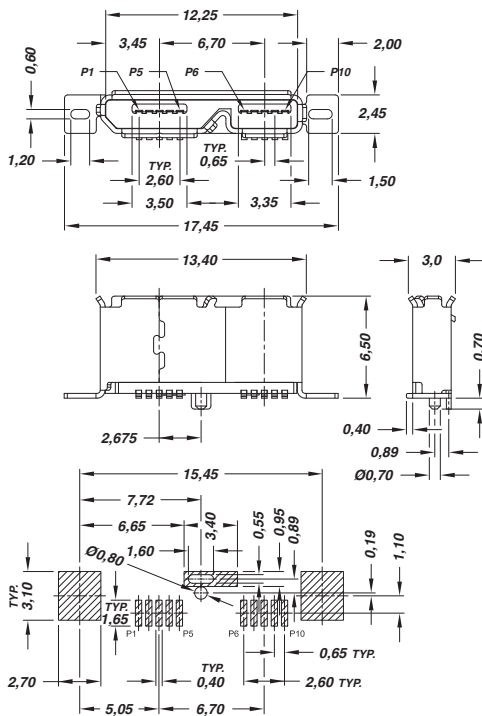


FIG. 1

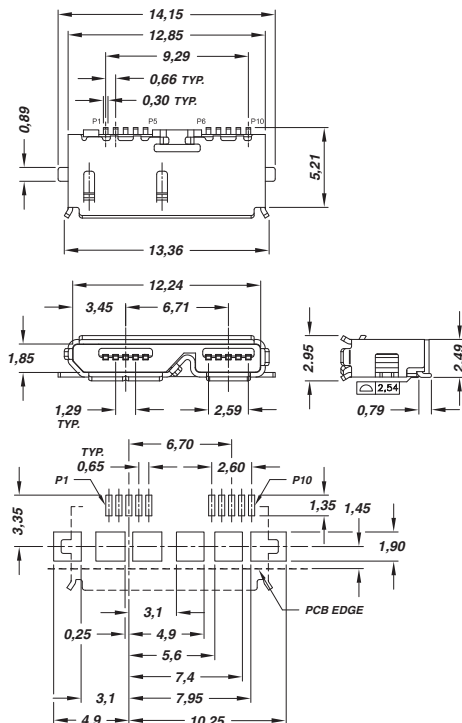
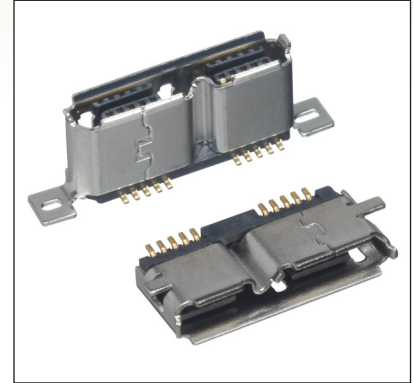


FIG. 2

- USB 3.0 Micro-B receptacles for surface mount
- Reduced mounting space
- Fully shielded
- Fully backwards compatible with USB 2.0
- 10X faster than USB 2.0 and provides optimized power efficiency
- Smaller and lighter than existing USB connectors, for portable & handheld devices
- Packaged on Tape and Reel:
897-10-010-00-300002 - 900 pieces per reel
897-10-010-40-300002 - 1,500 pieces per reel



ORDERING INFORMATION

FIG. 1	Micro Type B Receptacle, Single, Vertical Surface Mount
	897-10-010-00-300002
FIG. 2	Micro Type B Receptacle, Single, Surface Mount
	897-10-010-40-300002

Technical Specifications

Materials:

Terminals: Copper Alloy, Gold Flash over Ni
Contacts: Copper Alloy, 0,38µm Gold-Plated over Ni
Shell material: Stainless Steel, Nickel-Plated
Insulator material: High temperature LCP thermoplastic rated UL94V-0

RoHS-2
2011/65/EU

Ratings:

Voltage: 30VAC (rms)
Current: 1.5A (Pin 1 and 5), .25A (other pins)
All housing materials rated for "lead-free" soldering up to 260° C

Electrical:

Contact resistance: 30mΩ max. (Pin 1 and 5)
50mΩ max. (other pins)
Insulation resistance: 100MΩ min.
Dielectric withstanding voltage: 100VAC for 1 minute at sea level

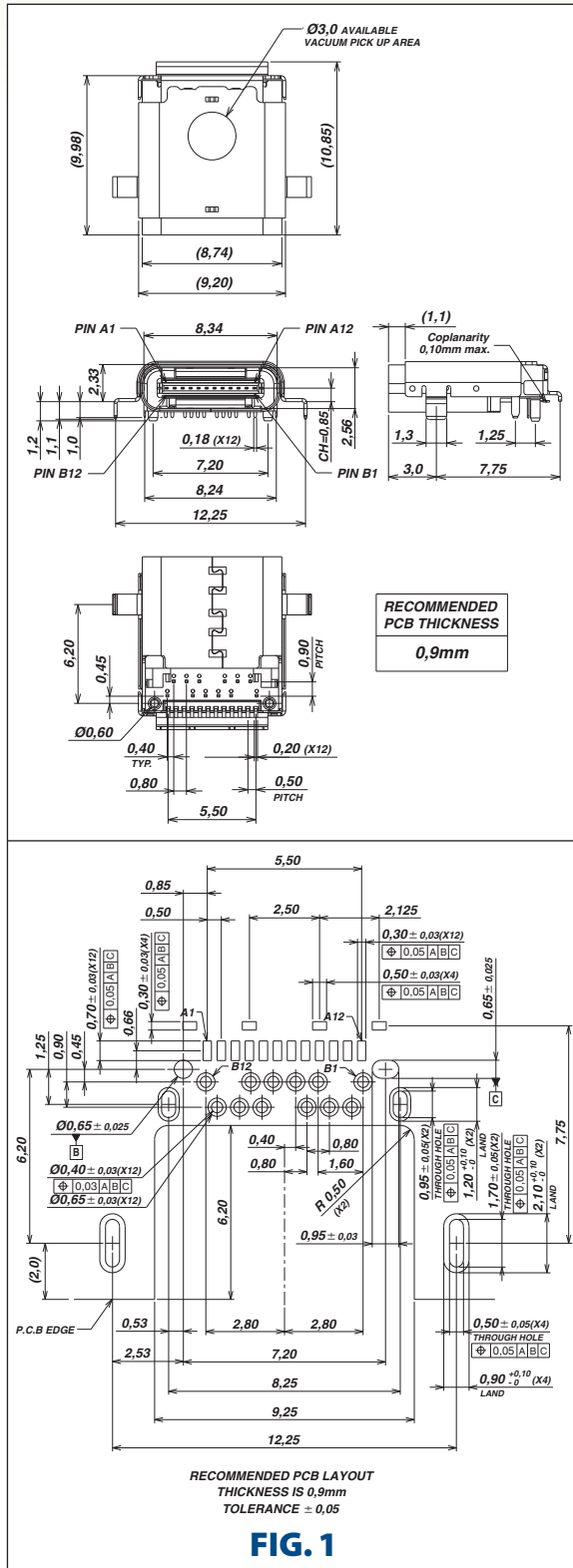
Mechanical:

Random vibration: No discontinuity >1µs per EIA 364-28, cond. V, letter A
Durability: 10,000 cycles max. per EIA 364-09
Mating force: 35 Newtons max. per EIA 364-13
Unmating force: Initial - 10 Newtons min. per EIA 364-13
After test - 8 Newtons min. per EIA 364-13

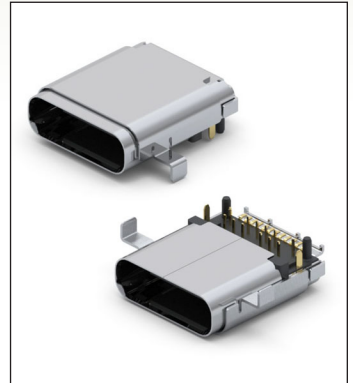
Environmental:

Operating Temperature Range: -40°C to +85°C
Humidity per EIA 364-31, method II, condition A
Temperature Life per EIA 364-17, condition 3, method A
Solderability per EIA 364-52, category 2 (260°C for 3 seconds)

SERIES 898 • UNIVERSAL SERIAL BUS 3.1 TYPE C • MID-MOUNT RECEPTACLE



- USB 3.1 Mid-Mount, Hybrid Layout
- Full metal housing with enhanced EMI/RFI prevention
- Reversible USB Type C Connector
- 10Gbps Data rate
- 2X faster than USB 3.0 with more efficient data transfer, higher through-put & improved I/O power efficiency
- For Storage, Smartphone, Tablet, Notebook, Docking, Automotive & Home Entertainment



ORDERING INFORMATION

FIG. 1	Mid-Mount Type C Receptacle, Hybrid Layout
	898-43-024-90-310000
	(Tape & Reel Packaged, 900 parts per 330mm reel)

Technical Specifications

Materials:

Terminals: Copper Alloy, Tin-Plated
 Contacts: Copper Alloy, 0,76µm Gold-Plated
 Casing and Shield: Stainless Steel
 Insulator material: High temperature thermoplastic rated UL94V-0

General Specifications:

Temperature Range:
 Operating: -55°C to +85°C
 Nominal: +20°C

Electrical:

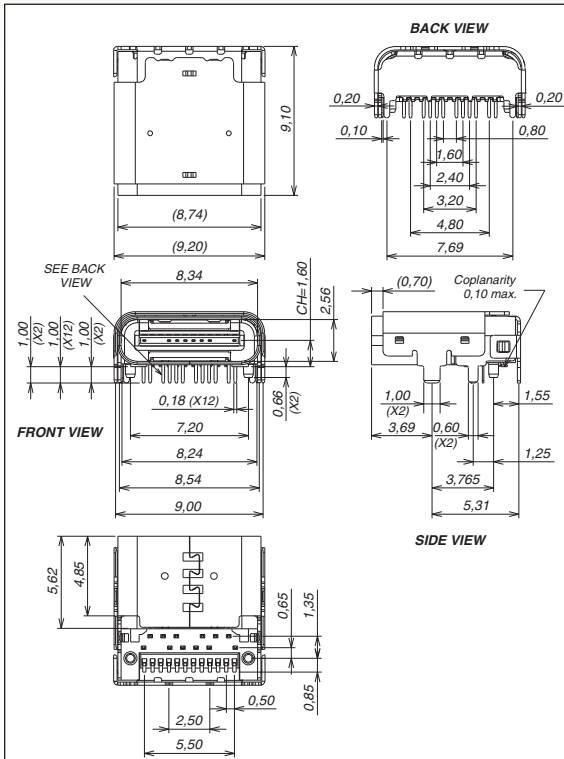
Voltage: 50VAC (rms)
 LLCr: 40mΩ (initial), Δ10mΩ (after)
 Dielectric Strength: 100VAC
 Insulation resistance: 100MΩ min.
 Current Rating: VBUS and GND contacts rated @ 1.25A each, paralleled for a total of 5A

Mechanical:

Durability: 10,000 cycles
 Insertion force: 20 Newtons max.
 Extraction force: 8 Newtons min., 20 Newtons max.

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SERIES 898 • UNIVERSAL SERIAL BUS 3.1 TYPE C • TOP MOUNT RECEPTACLE



- USB 3.1 Top Mount, Hybrid Layout
- Full metal housing with enhanced EMI/RFI prevention
- Reversible USB Type C Connector
- 10Gbps Data rate
- 2X faster than USB 3.0 with more efficient data transfer, higher through-put & improved I/O power efficiency
- For Storage, Smartphone, Tablet, Notebook, Docking, Automotive & Home Entertainment



ORDERING INFORMATION

FIG. 1	Top Mount Type C Receptacle, Hybrid Layout
	898-73-024-90-310001
	(Tape & Reel Packaged, 550 parts per 330mm reel)

Technical Specifications

Materials:

Terminals: Copper Alloy, Tin-Plated
 Contacts: Copper Alloy, 0.76 μ m Gold-Plated
 Casing and Shield: Stainless Steel
 Insulator material: High temperature thermoplastic rated UL94V-0

General Specifications:

Temperature Range:
 Operating: -55°C to +85°C
 Nominal: +20°C

Electrical:

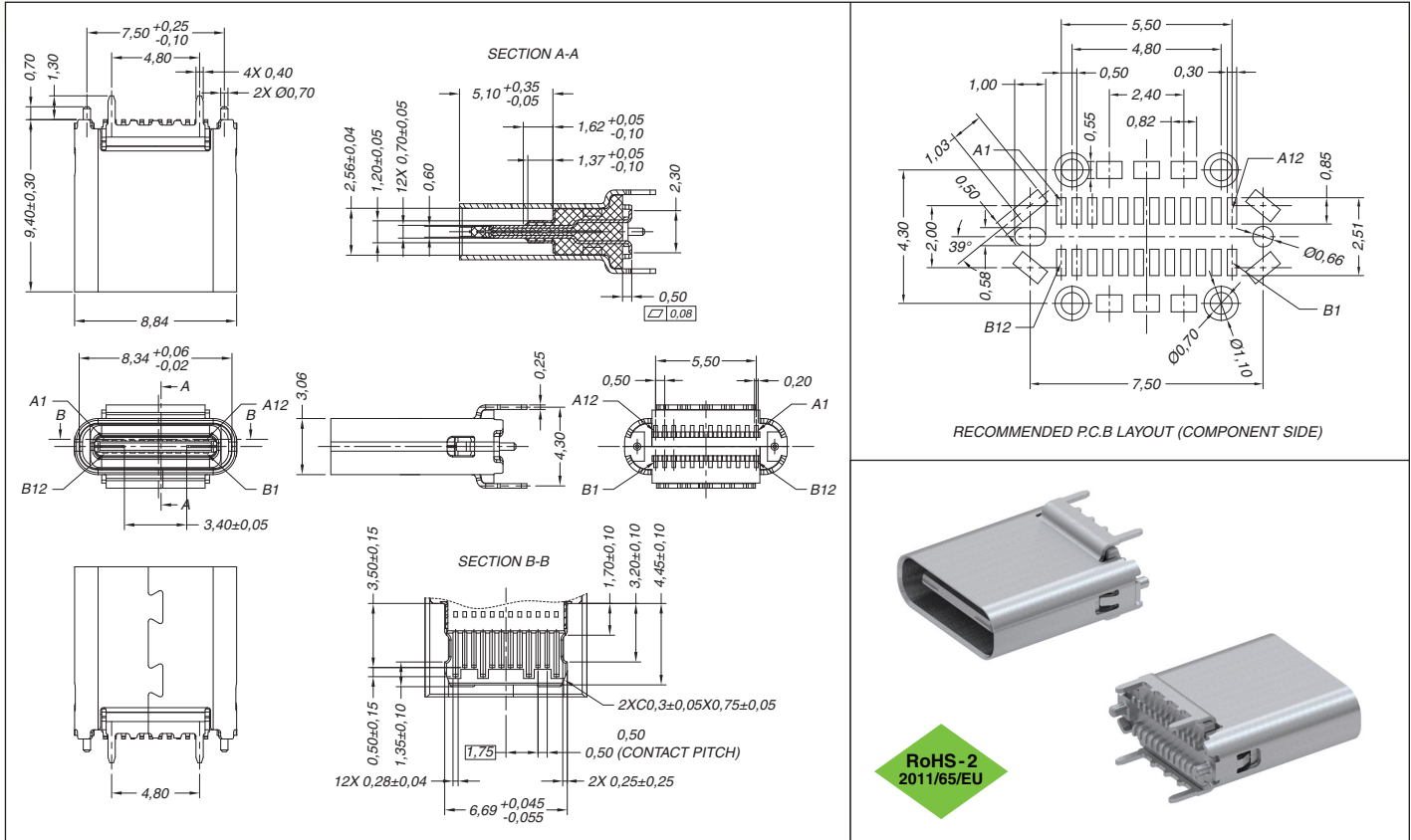
Voltage: 50VAC (rms)
 LLCr: 40m Ω (initial), Δ 10m Ω (after)
 Dielectric Strength: 100VAC
 Insulation resistance: 100M Ω min.
 Current Rating: VBUS and GND contacts rated @ 1.25A each, paralleled for a total of 5A

Mechanical:

Durability: 10,000 cycles
 Insertion force: 20 Newtons max.
 Extraction force: 8 Newtons min., 20 Newtons max.

RoHS-2
2011/65/EU

SERIES 898 • UNIVERSAL SERIAL BUS 3.1 TYPE C • VERTICAL SURFACE MOUNT



Technical Specifications

Materials:

Terminals: Copper Alloy, Tin-Plated
 Contacts: Copper Alloy, 30 μ " Gold-Plated
 Casing and Shield: Stainless Steel
 Insulator material: High temperature thermoplastic rated UL94V-0

General Specifications:

Temperature Range:
 Operating: -40°C to +85°C
 Nominal: +20°C

Electrical:

Voltage: 50VAC (rms)
 LLCR: 40m Ω max. (initial), Δ 10m Ω (Test cond. 20mV, 100mA)
 Dielectric Strength: 100VAC
 Insulation resistance: 100M Ω min.
 Current Rating: 5A for VBUS pin, 1.25A for VCONN pin

Mechanical:

Durability: 10,000 cycles
 Insertion force: 5-20 Newtons
 Extraction force: 8-20 Newtons after test

ORDERING INFORMATION

Vertical Surface Mount Type C Receptacle

898-43-024-00-310002

(Packaged in trays: 100 pieces per tray)

- USB 3.1 Vertical Surface mount, Type C
- Full metal housing with enhanced EMI/RFI prevention
- Reversible USB Type C Connector
- 10Gbps Data rate
- 2X faster than USB 3.0 with more efficient data transfer, higher through-put & improved I/O power efficiency
- For Storage, Smartphone, Tablet, Notebook, Docking, Automotive and Home Entertainment

SERIES 896, 897 • MINI UNIVERSAL SERIAL BUS • SURFACE MOUNT SOCKETS

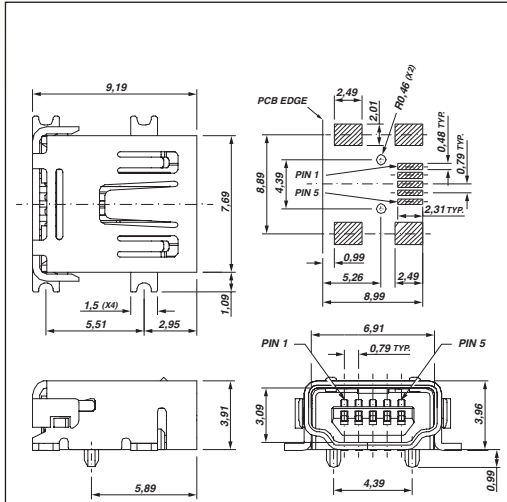


FIG. 1

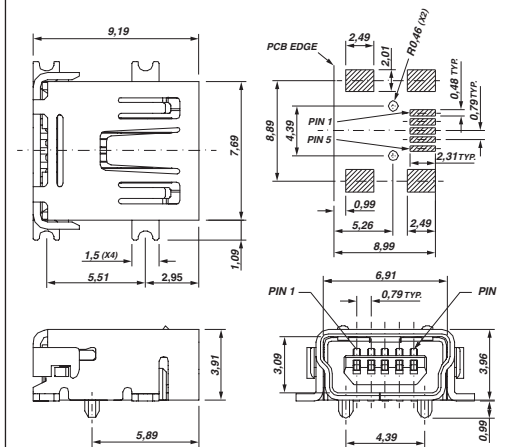


FIG. 2

- Mini USB receptacles for surface mount
- 5 Pin (one ID Pin), 0.8mm pitch, mini USB connector
- Reduced mounting space
- Fully Shielded
- Fully compliant with current USB 2.0 specifications
- Smaller and lighter than standard USB connectors for portable & handheld devices
- Packaged on Tape and Reel:
896-43-005-00-100001 - 800 pieces per reel
897-43-005-00-100001 - 700 pieces per reel



ORDERING INFORMATION

FIG. 1	Mini Type A Receptacle, Single, Surface Mount
	896-43-005-00-100001
FIG. 2	Mini Type B Receptacle, Single, Surface Mount
	897-43-005-00-100001

Technical Specifications

Materials:

Terminals: Copper Alloy, Tin Plated
 Contacts: Copper Alloy, 0.76µm Gold Plated
 Casing and Shield: Stainless Steel
 Insulator material: High temperature thermoplastic rated UL94V-0

Ratings:

Voltage: 30VAC (rms)
 Current: 1A max. per contact for 30°C temperature rise
 All housing materials rated for "lead-free" soldering up to 260° C

Electrical:

Contact resistance: 50mΩ max.
 Insulation resistance: 100MΩ min.
 Dielectric withstanding voltage: 100VAC at sea level
 Capacitance: 2pF max.

Mechanical:

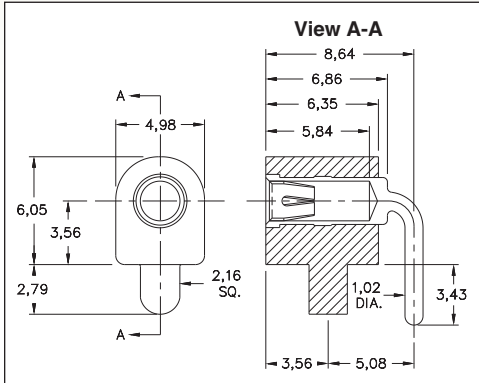
Random vibration: No discontinuity >1µs per EIA 364-28, cond. V, letter A
 Physical shock: No discontinuity >1µs per EIA 364-27, condition H
 Durability: 5000 cycles min. per EIA 364-09
 Mating force: 35 Newtons max. per EIA 364-13
 Unmating force: Initial - 7 Newtons min. per EIA 364-13
 After test - 3 Newtons min. per EIA 364-13
 Cable pull-out force per EIA 364-38

Environmental:

Thermal shock per EIA 364-32, condition I
 Humidity per EIA 364-31, method II, condition A
 Temperature life per EIA 364-17, condition 3, method A
 Solderability per EIA 364-52, category 2

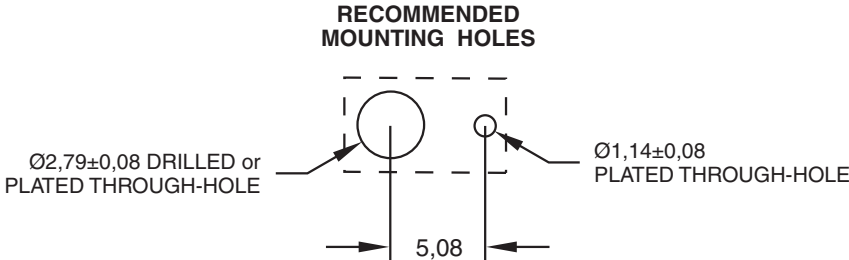



RoHS-2
2011/65/EU

SERIES 395...3XX • RIGHT ANGLE SOCKET • TEST POINT



- Available to accept 3 pin sizes: 1, 1,5, & 2mm
- Uses high temperature PCT polyester insulator
- Standard insulator color is black
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Pin Size	ORDERING INFORMATION						
1.0mm	395-XX-101-34-340000						
1.5mm	395-XX-101-03-380000						
2.0mm	395-XX-101-07-350000						
	<div><p>RECOMMENDED MOUNTING HOLES</p><p>Ø2,79±0,08 DRILLED or PLATED THROUGH-HOLE</p><p>Ø1,14±0,08 PLATED THROUGH-HOLE</p><p>5,08</p><p>XX=Plating Code See Below</p><p>RoHS-2 2011/65/EU</p></div>						
SPECIFY PLATING CODE XX =	13 		93				
Sleeve (Pin) 	0,25µm Au		5,08µm Sn/Pb				
Contact (Clip) 	0,76µm Au		0,76µm Au				

SERIES 388, 999 • MALE SHORTING JUMPERS & MICROPHONE SOCKETS

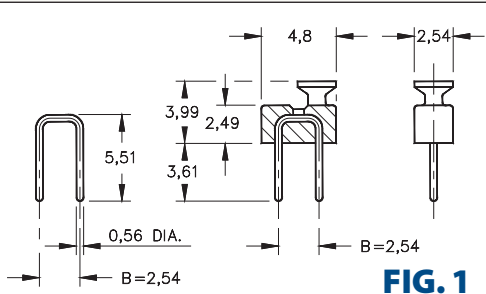


FIG. 1

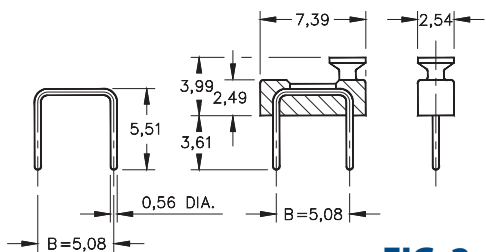


FIG. 2

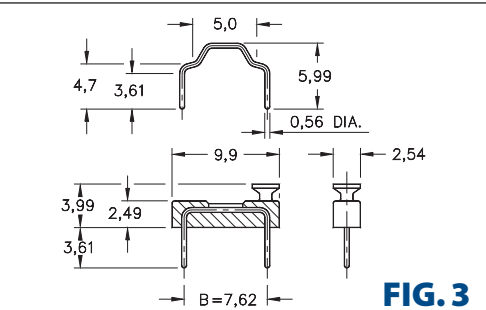
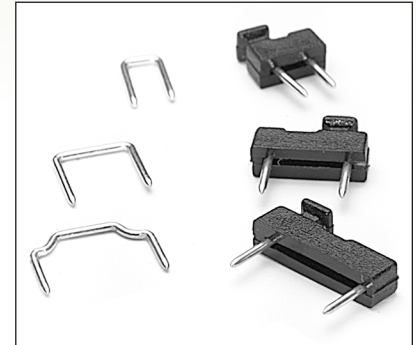


FIG. 3

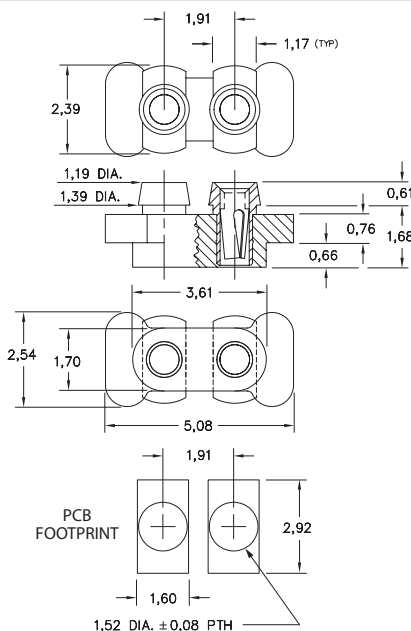
- Male shorting jumpers are available with or without insulator and have 0,56 diameter pins with 2,54, 5,08 or 7,62 center spacing
- Insulator materials are not high temperature
- For Electrical, Mechanical & Environmental Data, see page 264 for details

RoHS-2
2011/65/EU

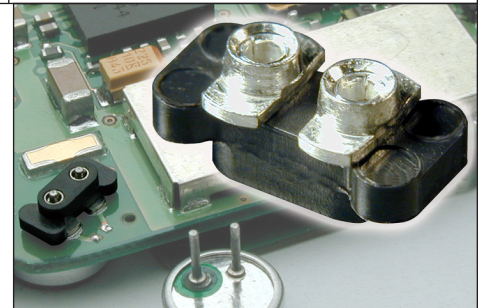


ORDERING INFORMATION

FIG. 1	Male Shorting Jumper 2,54 Spacing	
	Color / Style	Plating 0,25µm Au
	Black	999-11-210-10-000000
	Not Insulated	999-11-110-10-000000
FIG. 2	Male Shorting Jumper 5,08 Spacing	
	Color / Style	Plating 0,25µm Au
	Black	999-11-220-10-000000
	Not Insulated	999-11-112-10-000000
FIG. 3	Male Shorting Jumper 7,62 Spacing	
	Color / Style	Plating 0,25µm Au
	Black	999-11-230-10-000000
	Not Insulated	999-11-113-10-000000



- Series 388 microphone socket is a bottom entry socket for microphones having Ø 0,46 pins on 1,91 centers
- Designed to be surface mount and intrusive reflow soldered
- Series 388 uses MM #8874 pins. See page 159 for details
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Insulator is high temperature Nylon 46, rated UL 94 V-0



Ordering Information Microphone Socket

388-XX-102-11-740800 (Discrete socket)	
XX=Plating Code See Below	Plating Code
388-XX-102-11-740799 (Tape and Reel)	
(Supplied on 12mm wide carrier tape per EIA-481: 6,500 per 330mm reel)	
SPECIFY PLATING CODE XX=	
Sleeve (Pin)	5,08µm Sn/Pb
Contact (Clip)	5,08µm Sn/Pb