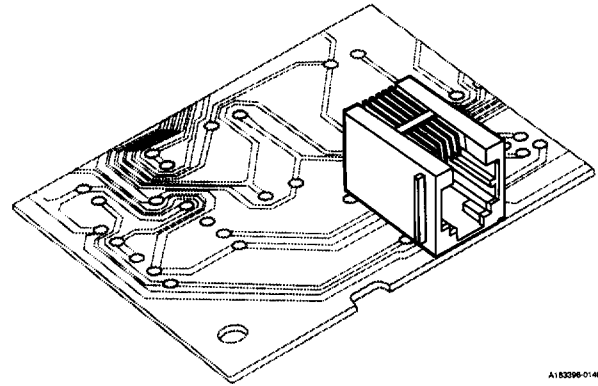


Telephone Interconnection Systems

PCB Modular Jacks



Features

- Components are designed and packaged for robotic placement, ensuring true positioning of the legs and contact wires.
- Through-mount, solder-to-board configuration.
- 4-, 6-, and 8-position receptacles are available in both horizontal and vertical entry styles.
- GXT™ (palladium-nickel alloy with gold flash), a Berg Electronics gold equivalent plating, ensures high cycle life and excellent solderability.
- Selective loading is available.
- Press-fit peg design eliminates hot and cold staking.

- Meets industry standard jack-to-board footprints.

Options

- Contact wire plating is also available in 0.76 μm (30 $\mu\text{in.}$) or 1.27 μm (50 $\mu\text{in.}$) gold.
- IR reflow compatible housings available.


Mating Data


Mates with modular plugs conforming to FCC part 68, subpart F.

Specifications

FCC part 68, subpart F
UL Standard 1863

Approvals and Certifications

 File no. E82037

 File no. LR46923

Technical Data

Materials

- Housing
 - ▶ Material Thermoplastic resin (UL 94 V-0)
 - ▶ Color Gray or Black
- Contact spring Phosphor-bronze (alloy 510 per ASTM B-159), 0.46 mm (0.018 in.) diameter

Plating

- Contact spring
 - ▶ Finish 0.76 μm (30 $\mu\text{in.}$) GXT™ or 0.76 μm (30 $\mu\text{in.}$) gold or 1.27 μm (50 $\mu\text{in.}$) gold

Electrical Performance

- Insulation resistance 500 M Ω min
- Withstanding voltage 1000 volts rms, 60 Hz
- Current rating 2.0 amp dc
- Contact resistance 20 m Ω max

Mechanical Performance

- Maximum total mating force
 - ▶ 4-wire lead 20.0 N (4.5 lbf)
 - ▶ 6-wire lead 20.0 N (4.5 lbf)
 - ▶ 8-wire lead 20.0 N (4.5 lbf)
- Retention force 22.5 N (5 lbf) min between jack and plug
- Durability (mating cycles) 250

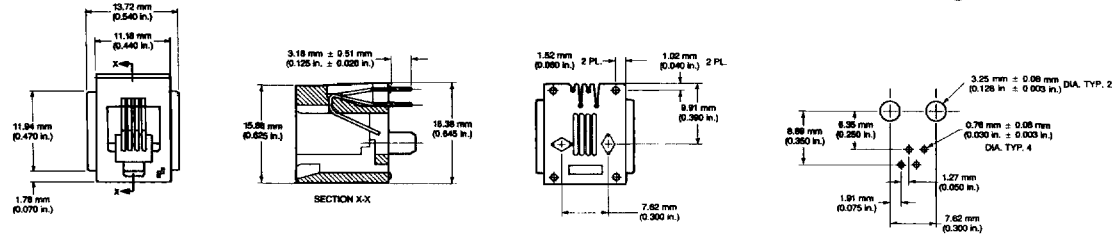
Packaging (package type depends on part number)

- Tubes
- Trays

Customer Support Materials

Description	Order No.	Description	Order No.
Customer Product Drawings.....	By Part No.	Product Samples.....	Upon request
Product Specifications.....	BUS 12-068		

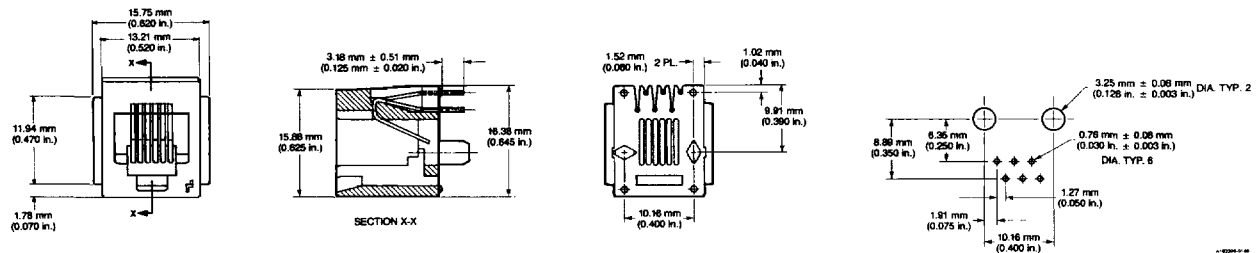
Description
4-Position Vertical PCB Jacks
Height: 15.62 / 0.615



Ordering Data

Number of Positions	Number of Wires	Configuration	Part Number
4	4	Vertical	69253-001

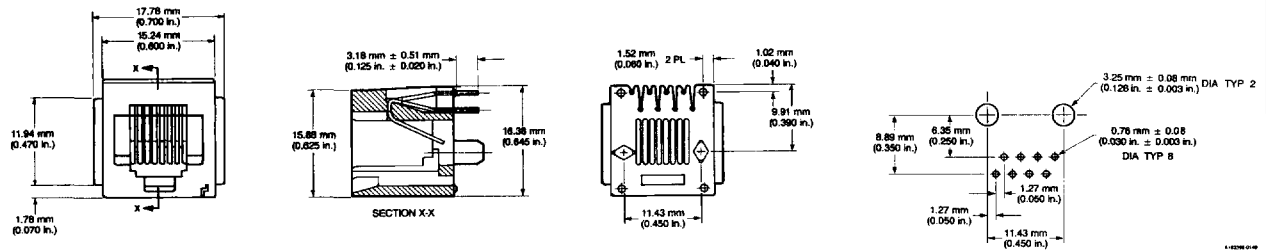
Description
6-Position Vertical PCB Jacks
Height: 15.62 / 0.615



Ordering Data

Number of Positions	Number of Wires	Configuration	Part Number	Notes
6	6	Vertical	69254-001	
6	4	Vertical	69254-002	Positions 1 and 6 unloaded.
6	2	Vertical	69254-003	Positions 1, 2, 5, and 6 unloaded

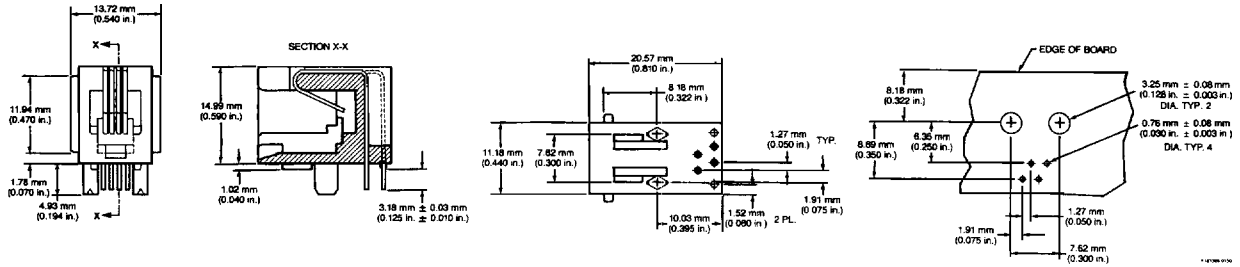
Description
8-Position Vertical PCB Jacks
Height: 15.62/0.615



Ordering Data

Number of Positions	Number of Wires	Keyed	Configuration	Part Number
8	8	No	Vertical	69255-001
8	8	Yes	Vertical	69255-002

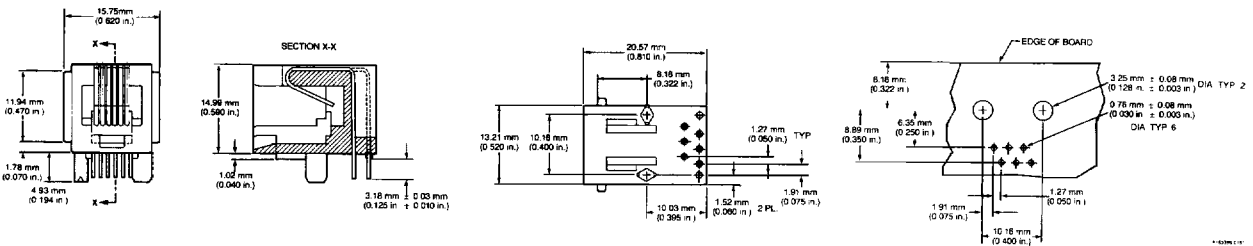
Description
4-Position Horizontal PCB Jacks
Height: 14.99/0.590



Ordering Data

Number of Positions	Number of Wires	Configuration	Part Number
4	4	Horizontal	68897-001

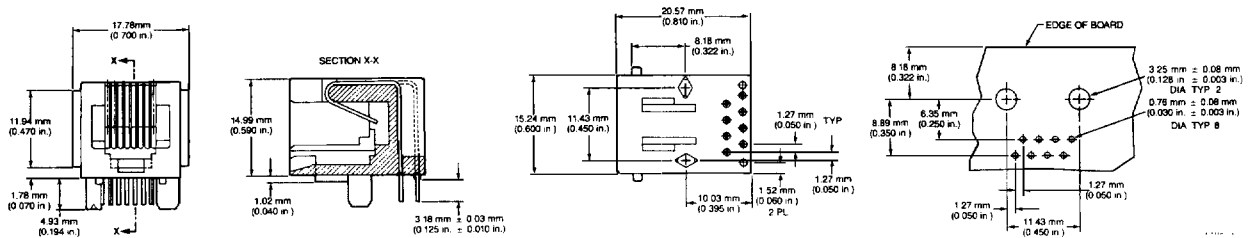
Description
6-Position Horizontal PCB Jacks
Height: 14.99/0.590



Ordering Data

Number of Positions	Number of Wires	Configuration	Part Number	Notes
6	6	Horizontal	68898-001	
6	4	Horizontal	68898-002	Positions 1 and 6 unloaded.

Description
8-Position Horizontal PCB Jacks
Height: 14.99/0.590



Ordering Data

Number of Positions	Number of Wires	Keyed	Configuration	Part Number
8	8	No	Horizontal	68899-001
8	8	Yes	Horizontal	68899-002

Description
4-Position, Low Profile Horizontal PCB Jacks
Height: 11.50/0.452

Ordering Data			
Number of Positions	Number of Wires	Configuration	Part Number
4	4	Horizontal	87180-X44
4	2	Horizontal	87180-X42

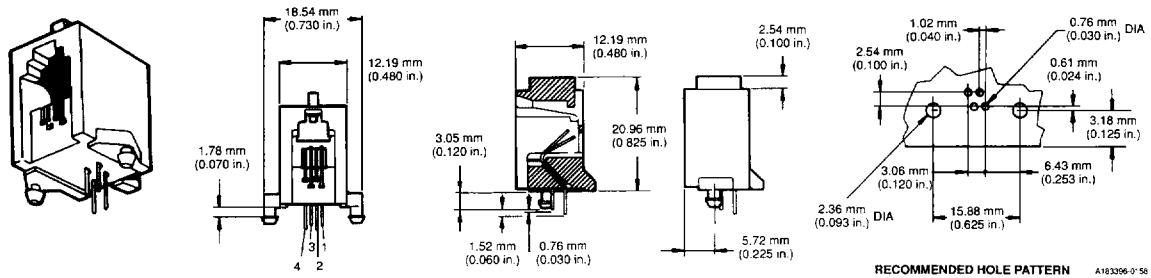
Description
6-Position, Low Profile Horizontal PCB Jacks
Height: 11.50/0.452

Ordering Data			
Number of Positions	Number of Wires	Configuration	Part Number
6	6	Horizontal	87180-X66
6	4	Horizontal	87180-X64
6	2	Horizontal	87180-X62

Description
8-Position, Low Profile Horizontal PCB Jacks
Height: 11.50/0.452

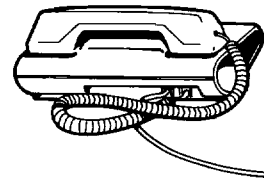
Ordering Data			
Number of Positions	Number of Wires	Configuration	Part Number
8	8	Horizontal	87180-X88
8	6	Horizontal	87180-X86
8	4	Horizontal	87180-X84

Description PCB Jacks - 616 Type

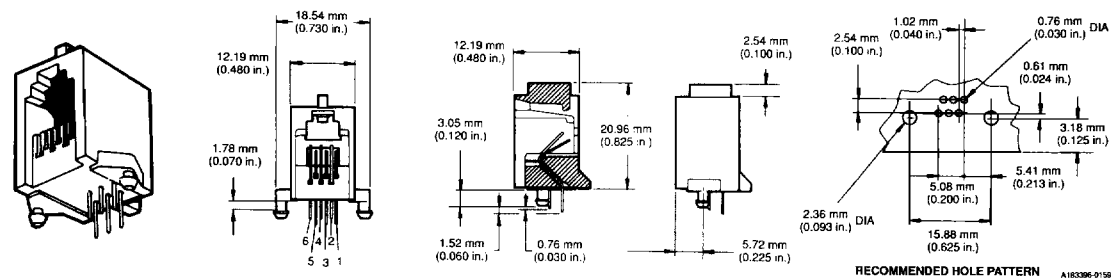


Ordering Data

Type	Number of Positions	Number of Wires	Part Number
616	4	4	66010-001

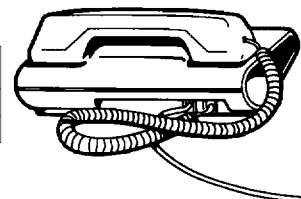


Description PCB Jacks - 623 Type

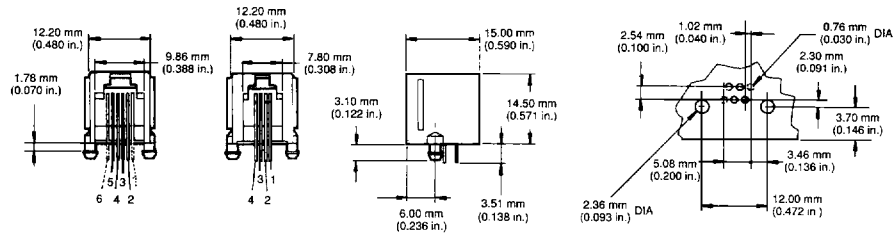
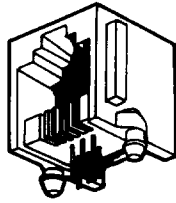


Ordering Data

Type	Number of Positions	Number of Wires	Part Number	Notes
623	6	4	66011-001	Positions 1 and 6 unloaded.
623	6	6	66011-002	

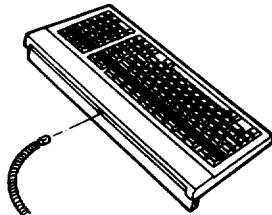


Description
PCB Jacks
Low Profile, 4 to 6 Positions



RECOMMENDED HOLE PATTERN A183396-0100

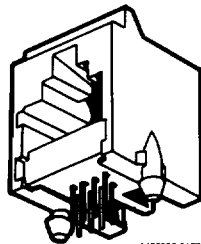
Ordering Data



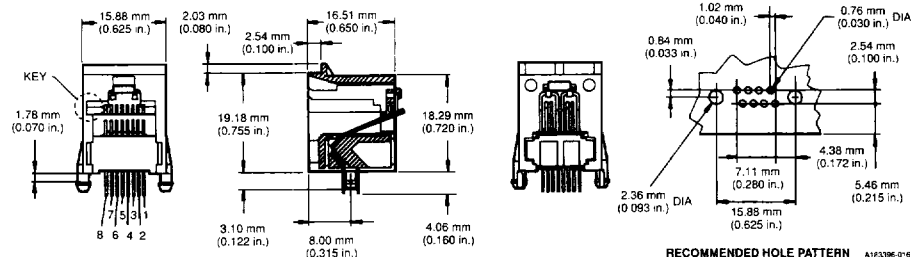
A183396-0667

Number of Positions	Number of Wires	Part Number	Notes
4	4	67969-001	
6	4	67968-001	Positions 1 and 6 unloaded.
6	6	67968-002	

Description
PCB Jacks---641 and 647 Type
Low Profile, 8 Positions



A183396-0157



RECOMMENDED HOLE PATTERN A183396-0151

Ordering Data



Type	Number of Positions	Number of Wires	Keyed	Part Number
641	8	8	No	66175-001
647	8	8	Yes	66476-001

Customer Support Materials

Description	Order No.	Description	Order No.
Customer Product Drawings	By Part No.	Product Samples	Upon request
Product Specifications	BUS 12-018		