

# CardBus Eject Headers



## CardBus IIIe Eject Header Series



### Description

FCI's CardBus IIIe Eject Headers offer a compact double-deck design with the innovative use of a single vertical transition board which simply plugs into a 0.6 mm centerline 154-position SMT board receptacle. FCI's CardBus IIIe Eject Header is excellent for high-signal transmission applications with a simplified design that is lightweight, low profile and compact. The CardBus IIIe Eject Header series offers a variety of options for design requirements including stand-off, push rod types (1-step, 2-step, foldable), push rod locations (Left-Left, Right-Right, Left-Right), mounting types (top-mount, bottom-mount), EMI shield covers and shutter door.

### Target Markets

- Computing
- PC peripherals
- Consumer Electronics
- Industrial and Instrumentation

### Target Applications

- Personal / Mobile computers
- PC Peripherals
- Industrial and medical instrumentation
- Set-Top Boxes
- LCD projectors
- Wireless LAN

### Features and Benefits

- Conforms to PCMCIA/CardBus standard
- One piece transition board PCB design which vertically plugs into a single 0.6 mm pitch 154-pos SMT receptacle
- 4-layer transition board provides excellent electrical performance
- Board receptacle guiding provides easy transition PCB insertion
- Cost savings due to simplified structure and minimized components
- Easily processed due to "plug-in" design to the SMT board receptacle
- Two-point eject mechanism ensures smooth card ejection
- Stand-off options allow for additional component real estate on the PCB
- Compact size and small footprint consumes minimal board space
- Variable ratio of eject mechanism optimizes card ejection force and card travel
- Provides 6 mm card travel and 8 mm push rod travel
- 1-step, 2-step, Foldable push rod options provide the flexibility for designers
- Four screws ensure the retention on the PCB
- Above or Below board mounting configurations are available
- 0.0, 2.2mm stand-off height options
- Optional EMI metal shield covers are available
- Shutter door options



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## Technical Features

### Materials

#### Eject Header

- Housing: Thermoplastic, UL 94V-0
- Contacts: Copper Alloy
  - Plating
    - Underplating: 2.0  $\mu\text{m}$  min. Nickel all over
    - Contact Area: 0.2  $\mu\text{m}$  min. Gold
- Ground Shield: Copper Alloy
  - Plating
    - Underplating: 2.0  $\mu\text{m}$  min. Nickel all over
    - Contact Area: 0.1  $\mu\text{m}$  min. Gold

#### Board Receptacle

- Housing: Thermoplastic, UL 94V-0
- Contacts: Copper Alloy
  - Underplating: 2.0  $\mu\text{m}$  min. Nickel all over
  - Contact & Solder Tail: Gold Flash

### Mechanical Performance

- Operating Temperature: -20°C~60°C
- Card Mating Force: 39.2 N max
- Card Unmating Force: 6.67 N min/ 39.2 N max
- PCB Insertion to Board Receptacle: 58.8 N max
- Durability(mating cycles):
  - Office environment: 10,000 cycles
  - Harsh environment: 5,000 cycles

### Electrical Performance

- Insulation Resistance: 1,000 M $\Omega$  min.(initial)/100 M $\Omega$  min.(after)
- Withstanding Voltage: 500 AC, 1 minute
- Current Rating: 0.5 A
- Contact Resistance
  - Header: 40 m $\Omega$  max.(Initial), 60 m $\Omega$  max.(after test)
  - Board Receptacle: 40 m $\Omega$  max.(Initial), 60 m $\Omega$  max.(after test)

### Specifications

- Product Specification: 110-374
- Packaging Specification:
  - GS-14-616 (Eject Header, without shield cover)
  - GS-14-742 (Eject Header, with shield cover)
  - GS-14-557 (Eject Header, with shutter)
  - GS-14-558 (Board receptacle)

### Packaging

- Board Receptacle:
  - Tray packaging: 70 pcs/Tray, 10 Trays/Carton (GS-14-558)
  - Tape-and-Reel packaging: 1350 pcs/reel(GS-14-558)
- Header (Without Shield Cover): 20 pcs/Tray, 5 Trays/Carton (GS-14-616)
- Header (With Shield Cover): 10 pcs/Tray, 10 Trays/Carton (GS-14-742)
- Header (With Shutter): 20 pcs/Tray, 10 Trays/Carton (GS-14-557)



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## Ordering Information/Part Numbers

### Eject Headers(Without Shutter Door)

Base No	Right-Right	Left-Left	Left-Right	Push Rod	Mount-Type	Stand-off	Metal Shield Cover	Packaging Spec	Product Spec
62823	-0ORRO	-0OLLO	-0OLRO	1-step	Above-mount	0.0 mm	None	GS-14-616	110-374
62824	-0ORRO	-0OLLO	-0OLRO	1-step	Above-mount	0.0 mm	Top	GS-14-742	110-374
62825	-22RRO	-22LLO	-22LRO	1-step	Above-mount	2.2 mm	None	GS-14-616	110-374
62826	-22RRO	-22LLO	-22LRO	1-step	Above-mount	2.2 mm	Top	GS-14-742	110-374
62827	-22RRO	-22LLO	-22LRO	1-step	Above-mount	2.2 mm	Both Top & Bottom	GS-14-742	110-374
62828	-22RRO	-22LLO	-22LRO	1-step	Below-mount	2.2 mm	None	GS-14-742	110-374
62829	-22RRO	-22LLO	-22LRO	1-step	Below-mount	2.2 mm	Top	GS-14-742	110-374
62830	-22RRO	-22LLO	-22LRO	1-step	Below-mount	2.2 mm	Both Top & Bottom	GS-14-742	110-374
62815	-0ORRS	-0OLLS	-0OLRO	2-step	Above-mount	0.0 mm	None	GS-14-616	110-374
62816	-0ORRS	-0OLLS	-0OLRO	2-step	Above-mount	0.0 mm	Top	GS-14-742	110-374
62817	-22RRS	-22LLS	-22LRO	2-step	Above-mount	2.2 mm	None	GS-14-616	110-374
62818	-22RRS	-22LLS	-22LRO	2-step	Above-mount	2.2 mm	Top	GS-14-742	110-374
62819	-22RRS	-22LLS	-22LRO	2-step	Above-mount	2.2 mm	Both Top & Bottom	GS-14-742	110-374
62820	-22RRS	-22LLS	-22LRO	2-step	Below-mount	2.2 mm	None	GS-14-616	110-374
62821	-22RRS	-22LLS	-22LRO	2-step	Below-mount	2.2 mm	Top	GS-14-742	110-374
62822	-22RRS	-22LLS	-22LRO	2-step	Below-mount	2.2 mm	Both Top & Bottom	GS-14-742	110-374
62831	-0ORRO	-0OLLO	-0OLRO	Foldable	Above-mount	0.0 mm	None	GS-14-616	110-374
62832	-0ORRO	-0OLLO	-0OLRO	Foldable	Above-mount	0.0 mm	Top	GS-14-742	110-374
62833	-22RRO	-22LLO	-22LRO	Foldable	Above-mount	2.2 mm	None	GS-14-616	110-374
62834	-22RRO	-22LLO	-22LRO	Foldable	Above-mount	2.2 mm	Top	GS-14-742	110-374
62835	-22RRO	-22LLO	-22LRO	Foldable	Above-mount	2.2 mm	Both Top & Bottom	GS-14-742	110-374
62836	-22RRO	-22LLO	-22LRO	Foldable	Below-mount	2.2 mm	None	GS-14-616	110-374
62837	-22RRO	-22LLO	-22LRO	Foldable	Below-mount	2.2 mm	Top	GS-14-742	110-374
62838	-22RRO	-22LLO	-22LRO	Foldable	Below-mount	2.2 mm	Both Top & Bottom	GS-14-742	110-374

### Eject Headers(With Shutter Door)

54932	-0ORRS	-0OLLS		2-step	Above-mount	0.0 mm	Top	GS-14-557	110-374
54934	-22RRS	-22LLS		2-step	Above-mount	2.2 mm	Top	GS-14-557	110-374
54935	-22RRS	-22LLS		2-step	Above-mount	2.2 mm	Both Top & Bottom	GS-14-557	110-374
54938	-22RRS	-22LLS		2-step	Below-mount	2.2 mm	Top	GS-14-557	110-374
54939	-22RRS	-22LLS		2-step	Below-mount	2.2 mm	Both Top & Bottom	GS-14-557	110-374

### 154P RCPT

Base No	Tape & Reel	Tray	Positioning Boss						
62875	-001T	-001	With					GS-14-558	110-374
62875	-002T	-002	Without					GS-14-558	110-374



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