



## SFF Standard 7-position SATA Plug Header Connectors

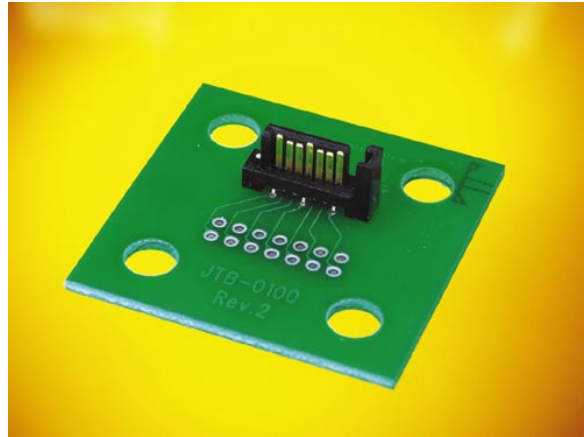
### Description

This 7-position header is an I/O connector that is targeted in the consumer market as a low cost yet to a degree of precision to the high-end connectors utilizing the SATA architecture platform.

The 7-position signal terminals are formed to snug fit into housing for rugged & reliable durability over period of hot plugging. Hold down clips will provide sufficient durability amidst robust & rugged application yet meet the desired low cost considerations. Most desirable application would be in optic drive application like Mother Board to other SATA interface device via SATA cables delivering high performance speed of 1.5 to 3.0 Gbits/sec. Data transfer rate peak at 150 Mb/sec.

### Features

- Signal pins: 7-position single row Blade & Beam with first in last break hot pluggable
- Comes with Through Mount, SMT, Vertical or Horizontal Versions
- High temperature plastic compatible with wave soldering or IR processes
- Terminal tip bites into housing for robust plugging preventing buckling or working loose of terminals
- Improved density over using 4 discrete connectors
- Fork Lock Clips or Hold Down Blades allow for added mechanical strength & prevent tilting upon mounting on PCB



### Benefits

- Faster data transfer speed up to 3 Gbits/sec
- Designed for high end but cost-effective connector solution
- Low pin count with simple protocol
- Hot plugging capability
- Better ventilated system with better air flow by doing away with bulky ribbon cables

### Target Markets

- Personal Computer and Mother Board
- Storage and Data
- Industrial and Instrumentation
- Portable Electronic I/O Device

### Target Applications

- Mother Board Interface
- Daughter Board and PCI Card
- Optical and Storage Drives Interface
- Server Drives and Backpanel Attachment
- Industries requiring SATA Combo Plug Interface Solution via Cable

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## Technical Data

### Materials

- Housing
  - Thermoplastic (UL 94 V-0)
- Colour
  - Black
- Applicable Solder Processes
  - IR or Wave Soldering Process
- Contact Terminal
  - Copper Alloy
- Plating Terminal
  - Contact Area: Au over 1.27µm (50µ") min. Ni under plate
  - Solder Area: 2.54 µm(100µ") min. tin-lead over 1.27µm(50µ") min. Ni.

### Mechanical Performance

- Durability
  - 500 mating cycles as per EIA 364-09
- Shock & Vibration at 3[G]<sup>1/2</sup> sin
  - 50 ~ 2000Hz random
  - As per EIA 364-27/28
- Thermal Shock
  - As per EIA 364-32

### Electrical Performance

- Low Level Current Resistance
  - Initial: 30mΩ max.
  - After: Δ15mΩ max.
- Isolator Resistance
  - 1000MΩ min.
- Di-Electric Withstanding Current
  - 500 volts

### Approvals and Certifications

- UL and CSA pending
- Specifications & Tests with accordance to EIA standards

### Packaging

- Tray

## Ordering Information

Part Numbers:

- 59333-001 Vertical Through Mount with Metal Post
- 59333-002 Vertical Through Mount with Metal Clip
- 59333-003 Vertical Through Mount with Metal Blade
- 59334-001 Vertical SMT Mount with Metal Post
- 59334-002 Vertical SMT Mount with Metal Clip
- 59334-003 Vertical SMT Mount with Metal Blade
- 59335-001 Horizontal SMT with 13.00mm ctr to ctr Metal Clip
- 59335-011 Horizontal SMT with 12.74mm ctr to ctr Metal Clip

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