查询#78012-0011 #供应商

Molex offers the Vertical SMT Plug solution for Serial Attach SCSI (SAS)

The capabilities of Serial Attach SCSI (SAS) have been developed to meet the evolving challenges of high end server applications. These challenges include scalability, performance, reliability and manageability, while leveraging a common electrical and physical connection interface with Serial ATA (SATA). This compatibility provides users with unprecedented choices for server and subsystem deployment.

SAS uses a point-to-point architecture which works in conjunction with PCI express and other high-speed architectures on the market such as SATA. Both SAS and SATA drives are compatible with SAS Backplane receptacles. Molex offers a wide range of PCB attachment and size options for these SAS applications.

In extending the product offerings, Molex has developed a vertical SMT SAS plug with 2 different height options. It is compliant to SAS inter-mating features such as 7 signal pins each on both port 1 and port 2, 15 power pins, and staggered contact length for hot-plugging. This plug is ELV and RoHS compliant. It is also lead free process compatible.

Molex is an active contributor to the INCITS T10 Technical Committee (SCSI) specifically in the SFF Working Group. This insures that all of Molex's SAS products conform to SFF8482 and SFF8484 specifications.

Serial Attached SCSI 1.27mm (.050'') Pitch 29 Circuit

SAS Plug

78012

78164

mole

- Vertical SMT Extended Height 10.88mm
- Vertical SMT
 Standard Height 7.88mm



Features	Benefits		
Hot Plug	 Add or remove drives without system shutdown Sets standards for enterprise-class performance, 2nd generation on track for 6.0GB/sec throughput 		
• 3.0 GB/sec transfer rate			
• Solder tab	Provides extra strength in retention to PCB		
• Pick and place cap	 Allows automated placement onto PCB 		
• Tray / Embossed Tape on Reel packaging	 Provide options of packaging to cater to customer's processing needs 		
High-temperature thermoplastic housing	• Withstands lead-free processing		
• Two different height variations	• Provide options to address different space constraints		

SPECIFICATIONS

sc.com

Reference Information Packaging: Embossed Tape on Reel / Tray UL File No.: Pending CSA File No.: Pending Mates With SAS/SATA Receptacle: 78011 Mates With SAS Receptacle: 87824, 87839, 87863, 87970, 87945, and 87975 Conforms to: SFF 8484 Designed In: Millimeters

Electrical Voltage: 30V Current: 1.5A Contact Resistance: 30 milliohms max. Dielectric Withstanding Voltage: 500V AC Insulation Resistance: 1000 Megohms min. Mechanical Terminal Retention Force: Port 1: 4.45N min Port 2: 2.20N min

Mating Force: 50N (Cable) max and 25N (Backplane) max Un-Mating Force: 20N (Cable) min and 5N (Backplane) min Durability: 25 Cycles (Cable) and 500 Cycles (Backplane)

Physical Housing: Black, Nylon (PA), UL 94V-0 Contact: Copper Alloy (Cu) Plating: Contact Area — 0.76 µm (30µ") Gold (Au) Solder Tail Area — Tin (Sn) Underplating — Nickel (Ni) Operating Temperature: 0°C to +55°C







RAID Storage

Ordering Information

Description	Lead Free Order No.	Height	Packaging	Retentio n to PCB	Pick and Place Cap
1.27mm (.050") Pitch, Serial Attached SCSI Combo Device Plug, Vertical, Surface Mount, 29 Circuits	78012-0011	1 <i>0.88mm</i>	Embossed Tape on Reel	Solder Tab	Yes
	78164-1051	7.88mm			



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