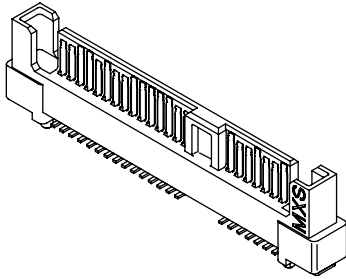


1.27mm (.050") Pitch Serial Attached SCSI Combo Device Plug

78012
Vertical, SMT



Features and Benefits

- Point-to-point architecture will ensure maximum bandwidth
- Disk or backplane interoperability with Serial ATA gives flexibility to specify best drive for intended use
- Hot-plugging capability allows adding/removing drives without system shutdown
- 3.0 Gbps transfer rate
- SMT fitting nails provide additional PCB retention
- Guide pocket allows blind-mating of connector
- Pick-and-place cap allows automated placement on PCB
- Space saving and better airflow in system with compact cabling and connectors
- Plastic locating pegs assure proper locating on the PCB

Reference Information

Product Specification: PS-78012-002
 Packaging: Tape and reel
 Mates With: 87824, 87839, 87863, 87970, 87945 and 87975 SAS combo receptacle; 78011 SATA combo receptacle
 Conforms To: SFF8482 standards
 Designed In: Millimeters

Electrical

Voltage: 30V
 Current: Power—1.5A
 Signal—500mA
 Contact Resistance: 30 milliohms max.
 Dielectric Withstanding Voltage: 500V AC
 Insulation Resistance: 1000 Megohms min.

Mechanical

Terminal Retention Force:
 SAS Primary Physical Line (Power/Signal)
 Port 1: 4.45N min.
 SAS Secondary Physical Link Port 2: 2.20N min.
 Mating Force: Backplane—25N max.
 Cable—50N max.
 Unmating Force: Backplane Receptacle—5N min.
 Cable Receptacle—20N min.
 Durability: Cable Application—25 cycles
 Backplane Application—500 cycles

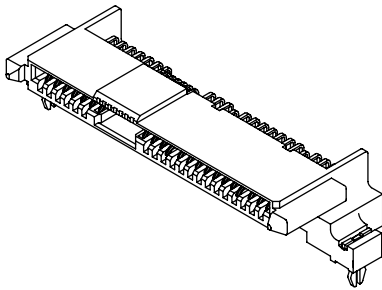
Physical

Housing: Black nylon, UL 94V-0
 Contact: Copper Alloy
 Plating: Contact Area—0.76 μ m (30 μ Select Gold
 Terminal Area—Tin
 Underplating: Nickel
 Operating Temperature: 0 to +55°C

Circuits	Order No.	Pick-and-Place Cap	Lead-free
29	78012-0011	Yes	Yes

1.27mm (.050") Pitch Serial Attached SCSI Combo Host Receptacle

87945/87975
Right Angle, SMT



Features and Benefits

- Point-to-point architecture will ensure maximum bandwidth
- Disk or backplane interoperability with Serial ATA gives flexibility to specify best drive for intended use
- Hot-plugging capability allows adding or removing drives without system shutdown
- 3.0 Gbps transfer rate
- Forklock or blade locking ensures secure locking to PCB
- Guide post allows blind-mating of connector
- Space saving and better airflow in system cabinets with compact cabling and connectors
- Plastic locating pegs assure proper locating on the PCB

Reference Information

Product Specification: PS-87945-034 and PS-87975-102
 Packaging: Tray
 Mates With: 78012—SAS combo plug
 87679, 87703 and 87799—SATA combo plug
 Conforms To: SFF8482 standards
 Designed In: Millimeters

Electrical

Voltage: 30V
 Current: 1.5A
 Contact Resistance: 45 milliohms max
 Dielectric Withstanding Voltage: 500V AC
 Insulation Resistance: 1000 Megohms min

Mechanical

Housing Slip-Out Force: 90N (20.23 lb) min.
 Mating Force: 25N (5.62 lb) max.
 Durability: 500 cycles

Physical

Housing: Nylon 9T, UL 94V-0
 Contact: Copper Alloy
 Plating: Contact Area—0.76 μ m (30 μ Select Gold
 Terminal Area—Tin
 Underplating: Nickel
 PCB Thickness: 1.60mm (.062")
 Operating Temperature: 0 to +55°C

Circuits	Order No.	PCB Retention	'Z' Height	Lead-free
29	87945-0001	Forklock	7.07mm (.278")	Yes
	87945-0002	Solder Blade		
	87975-1001	Forklock	2.85mm (.112")	
	87975-1002	Solder Blade		