

FEATURES AND SPECIFICATIONS



1.27mm (0.050") Pitch SATA Combo Host Receptacle, without Housing Rib

Introducing Molex's SATA Combo Host Receptacle, capable of inter-mating to both Serial ATA drive plug and SAS drive plug without utilizing SAS 2nd signal port.

Serial ATA was developed to meet the demand for both faster speed and higher capacity storage drives that keeps on increasing along with the digital revolution. With a higher data transfer rate up to 300MByte/sec, Serial ATA will soon replace the Parallel ATA which could only support data transfer rate up to 133MByte/sec.

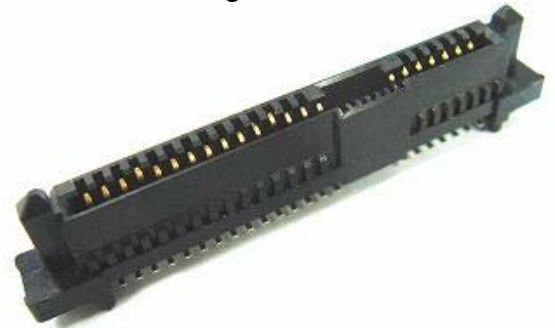
Molex has developed a unique Serial ATA receptacle design by removing the center rib of the housing. This provides an extra option for inter-mating with SAS drive plug without utilizing SAS 2nd signal port. It is compliant to Serial ATA inter mating features such as 7 signal pins, 15 power pins, staggered contact length for hot-plugging, and guide posts for blind mating.

This Serial ATA receptacle is ELV and RoHS compliant. It is also lead free process compatible

Molex is an active member of the Serial ATA International Organization (SATA-IO) which is the work group that responsible for developing and specifying Serial ATA interconnect standards.

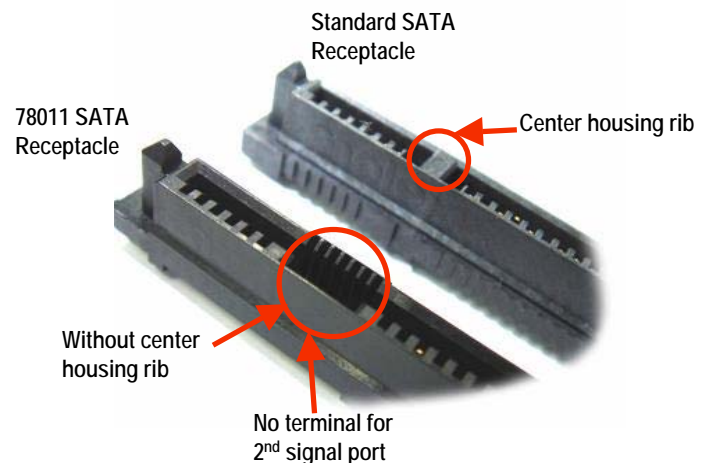
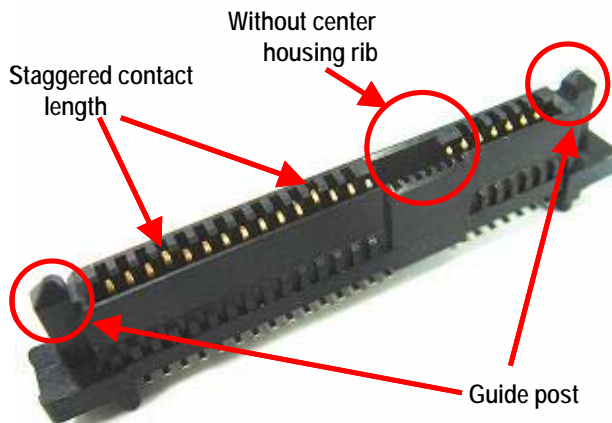
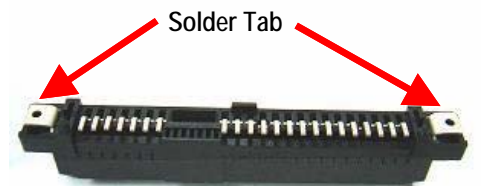
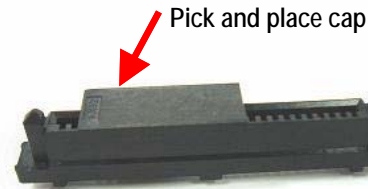
78011

**Surface Mount
Standard Height 8.15mm**



Features and Benefits

- Staggered contact length (First-mate/Last-break) to allow sequential mating of pins for hot plugging of hard disk drive (plug insertion and removal without powering down system)
- Guide post for blind-mating
- Absence of center housing rib allows inter-mating with both Serial ATA drive plug or SAS drive plug without utilizing SAS 2nd signal port
- Solder tab provides extra retention to PCB
- Pick-and-place cap allows automated placement onto PCB
- High temperature thermoplastic housing provide lead-free process capability



SPECIFICATIONS

Reference Information

Packaging: Tape and reel

UL File No.: TBA

CSA File No.: TBA

Mates with Serial ATA Combo Plug:
87679, 87703, 87799

Mates with SAS Combo Plug: 78012
Designed In: mm

Electrical

Voltage: 30V max.

Current: 1.5A DC or AC (RMS) max. at 60Hz

Contact Resistance: 30 milliohms max.

Dielectric Withstanding Voltage: 500V AC

Insulation Resistance: 1000 Megohms min.

Mechanical

Housing Slip-Out Force: 60N min.

Mating Force: 20N max.

Unmating Force: 4N min.

Durability: 500 Cycles

Physical

Housing: Black nylon (PA), UL 94V-0

Contact and Solder tab: Copper (Cu) Alloy

Plating: Contact Area — 0.76µm Gold (Au)

Solder Tail Area — Tin (Sn)

Underplating — Nickel (Ni)

Solder Tab Area — Tin (Sn)

Operating Temperature: -40°C to +105°C



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SATA Combo Host Receptacle,
without Housing Rib**

78011

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APPLICATIONS

Enterprise Computing

- Mid Range Servers
- Network Storage
- RAID Storage



RAID Storage



Mid range servers



Network storage

Ordering Information

Description	Lead-free Order No.	Image	Features
1.27mm (.050") Pitch Serial ATA Combo Host Receptacle, Surface Mount, Vertical, 0.76µm (30µ") Gold (Au) Selective Plating, 22 Circuits	78011-0011		Standard Height 8.15mm with 1.00mm plastic locating peg, pick-and-place cap.



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