

INTRODUCTION:

Adam Tech SATA series Serial ATA connectors combine hot-plug capability with a combination of power and signal contacts in a blind-mate design. They are ideal for connecting disk drives to backplanes in servers or network equipment. Adam Tech SATA connectors are designed with differential-pair signaling technology and are precision manufactured to consistently perform at speeds up to 3.0 Gbits/s.

FEATURES:

Meets SCA Interconnection Standards
40P Fiber Channel and 80P SCSI compatible
Interchangeable Industry Standard Design

MATING CONNECTORS:

Adam Tech SATA series plugs and all industry standard SATA plugs.

SPECIFICATIONS:

Material:

Insulator: Hi-Temp thermoplastic, glass filled, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

Plating:

Gold Flash over nickel underplate on mating area, tin over Copper underplate on tails

Electrical:

Operating Voltage: 30V AC
Current Rating: 1.5 Amps Max.
Contact Resistance: 30 mΩ Max. initial
Insulation Resistance: 1000 MΩ Min.
Dielectric Withstanding Voltage: 500V AC for 1 Minute

Mechanical:

Insertion force: 10.20 lbs max.
Withdrawal force: 2.25 lbs min.

Temperature Rating:

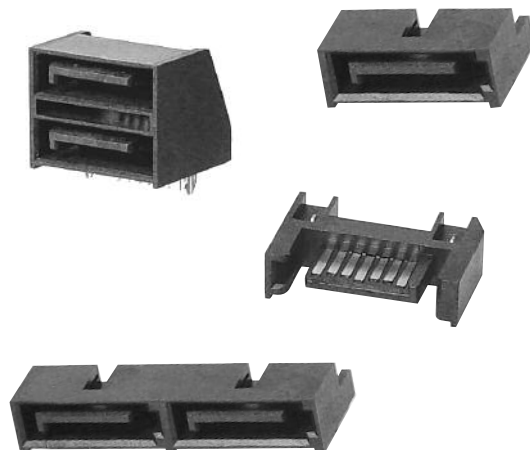
Operating Temperature: -55°C to +125°C
Soldering process temperature: 260°C

PACKAGING:

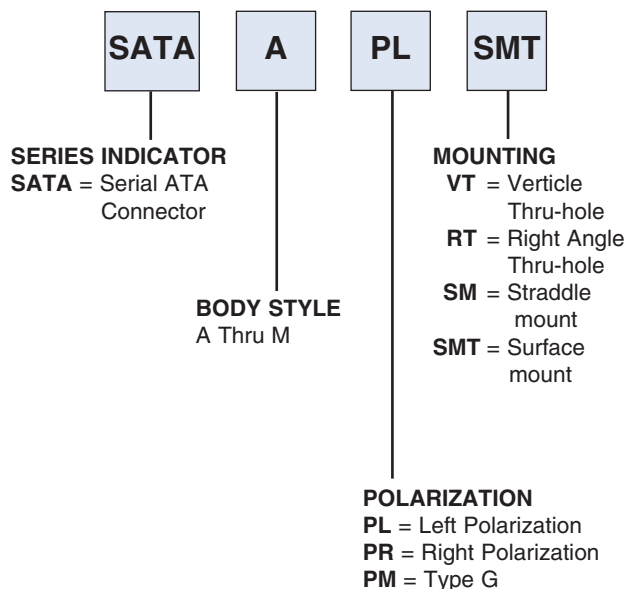
Anti-ESD plastic trays or tubes

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
CSA Certified File No. LR1578596



ORDERING INFORMATION

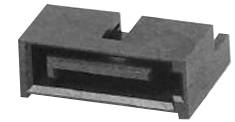
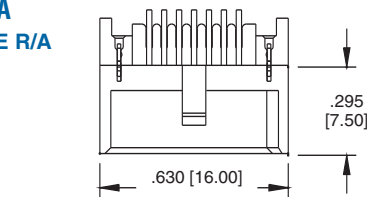


OPTIONS:

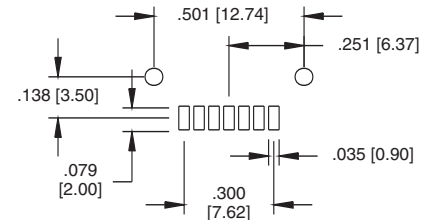
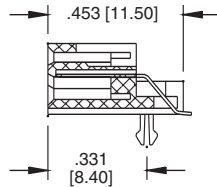
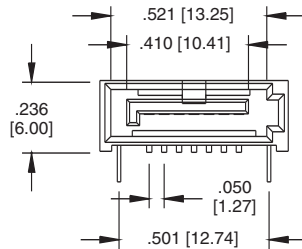
Add designator(s) to end of part number

K = Key
S = Side slots (type D)
30 = 30 μin gold plating in contact area
P = Locating Pegs

SATA-A SINGLE R/A SMT

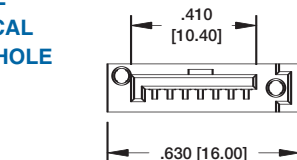


SATA-A-PL-SMT-K

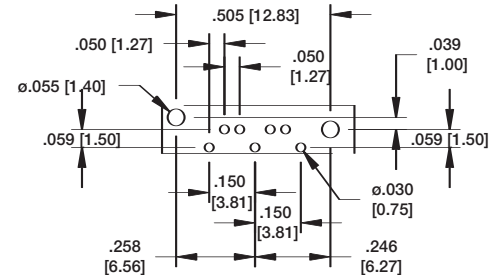
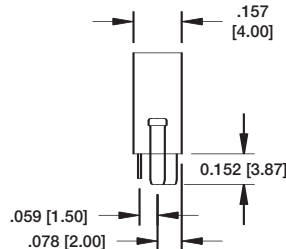
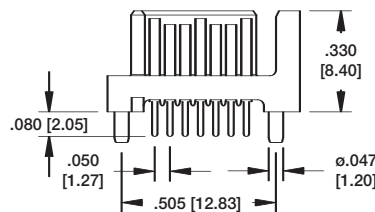


Recommended PCB Layout

SATA-C SINGLE VERTICAL THRU-HOLE

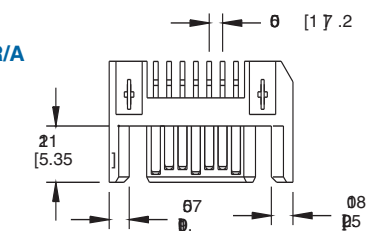


SATA-C-PR-VT-P

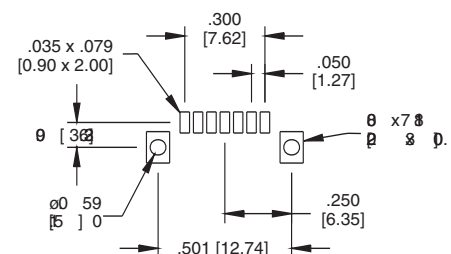
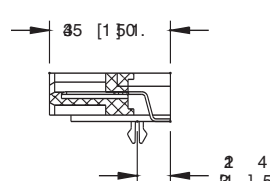
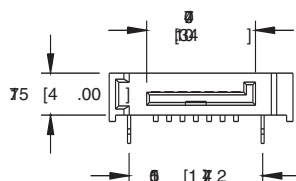


Recommended PCB Layout

SATA-C SINGLE R/A SMT

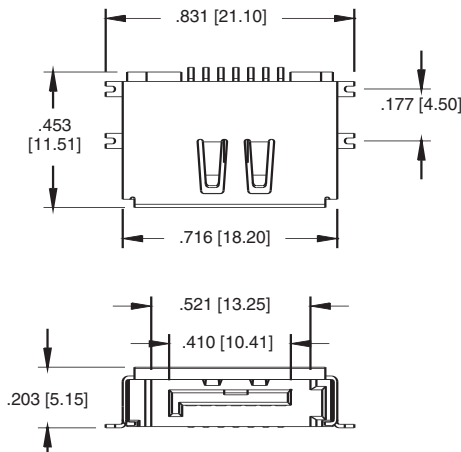


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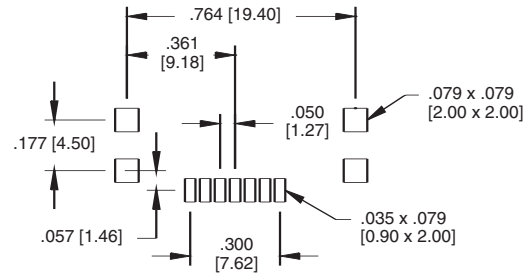


Recommended PCB Layout

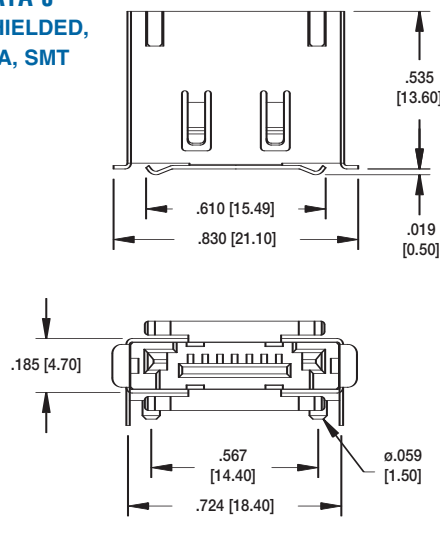
SATA-B SHIELDED, R/A, TRUE SMT



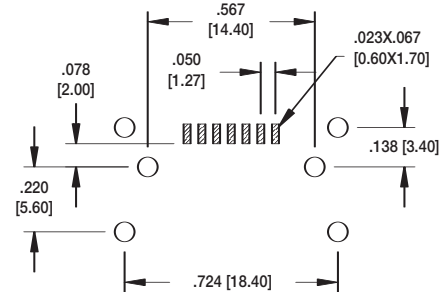
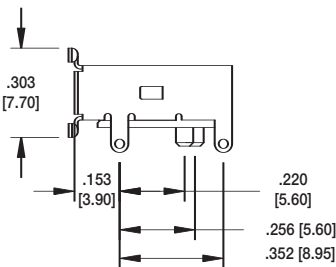
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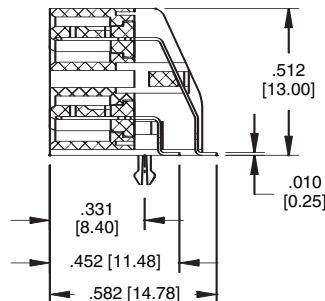
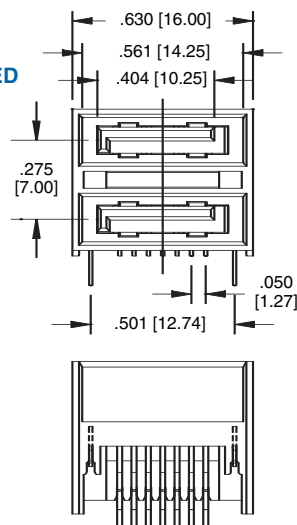
SATA-J SHIELDED, R/A, SMT



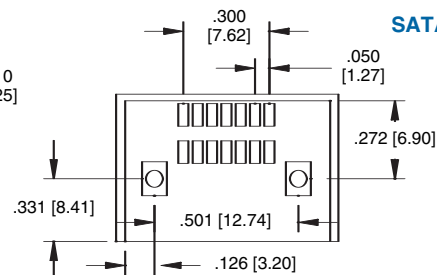
SATA-J-NP-SMT-P-S-PG



SATA-D DUAL STACKED SMT



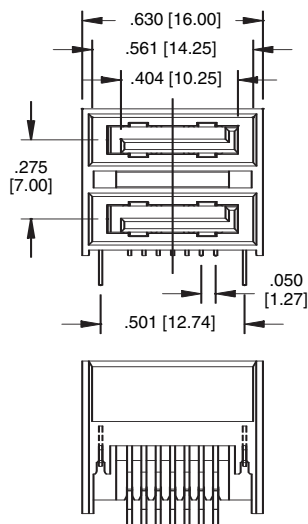
SATA-D-PL-SMT-S



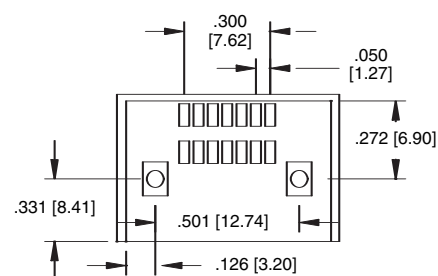
Recommended PCB Layout

SATA-D

DUAL STACKED, SMT



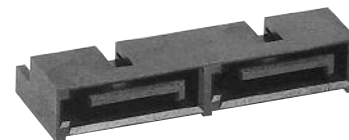
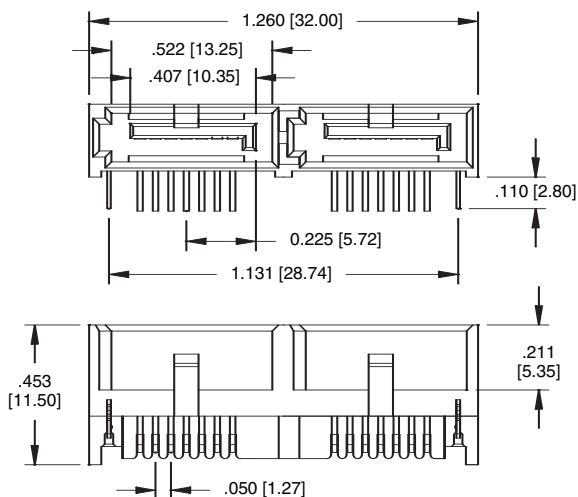
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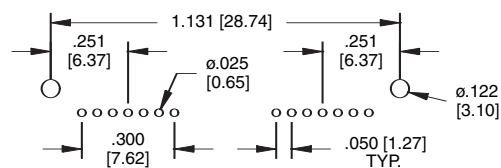
Recommended PCB Layout

SATA-E

DUAL, SIDE BY SIDE THRU-HOLE

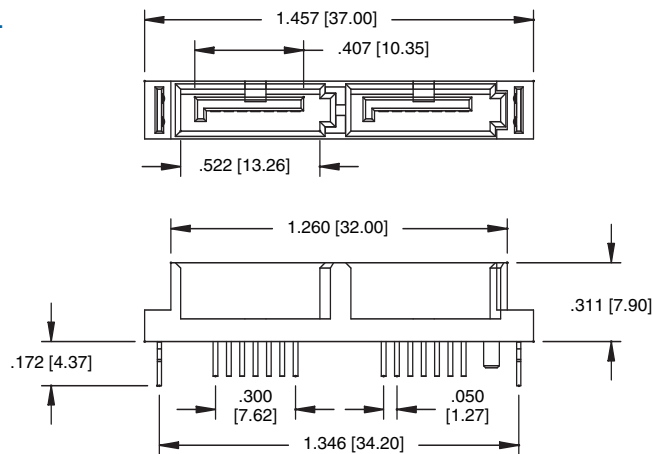


SATA-E-PR-RT-K

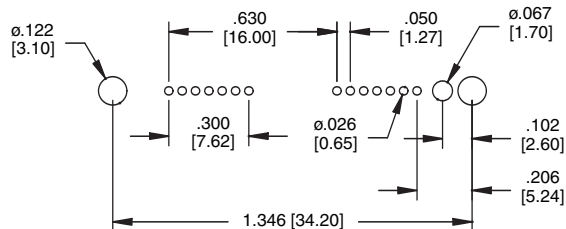
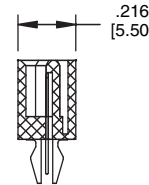


Recommended PCB Layout

SATA-F DUAL VERTICAL THRU-HOLE

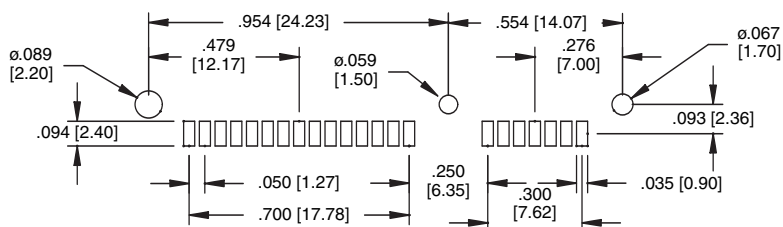
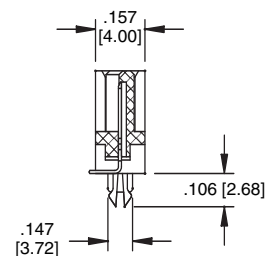
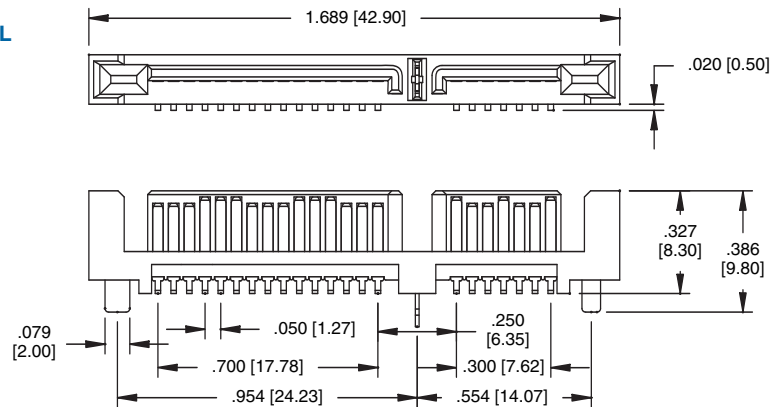


SATA-F-PL-VT-K-P

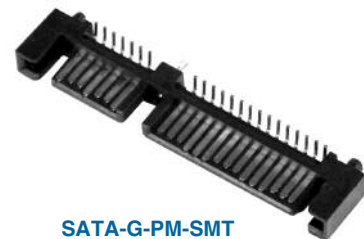


Recommended PCB Layout

SATA-G DUAL VERTICAL SMT

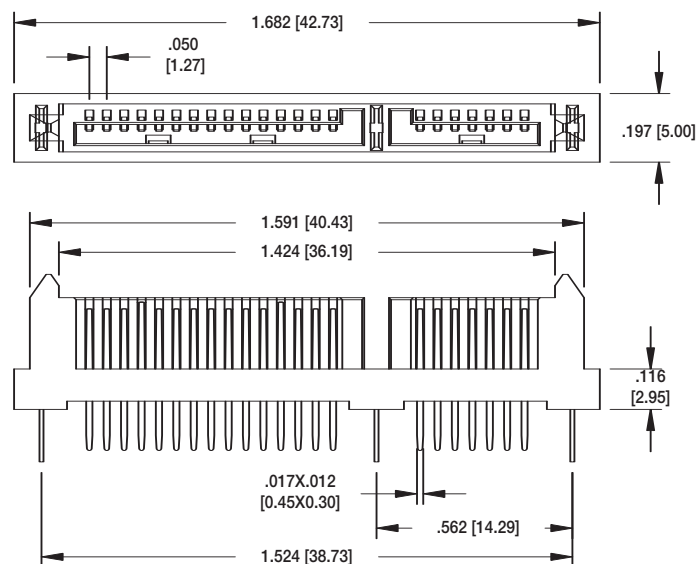


Recommended PCB Layout

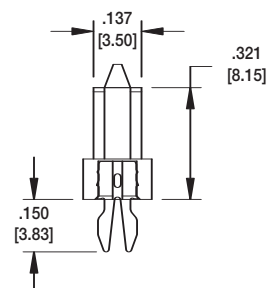


SATA-G-PM-SMT

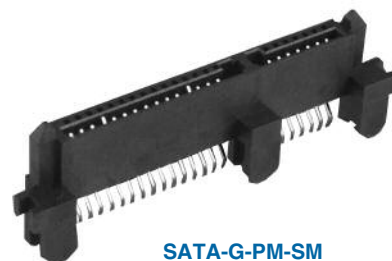
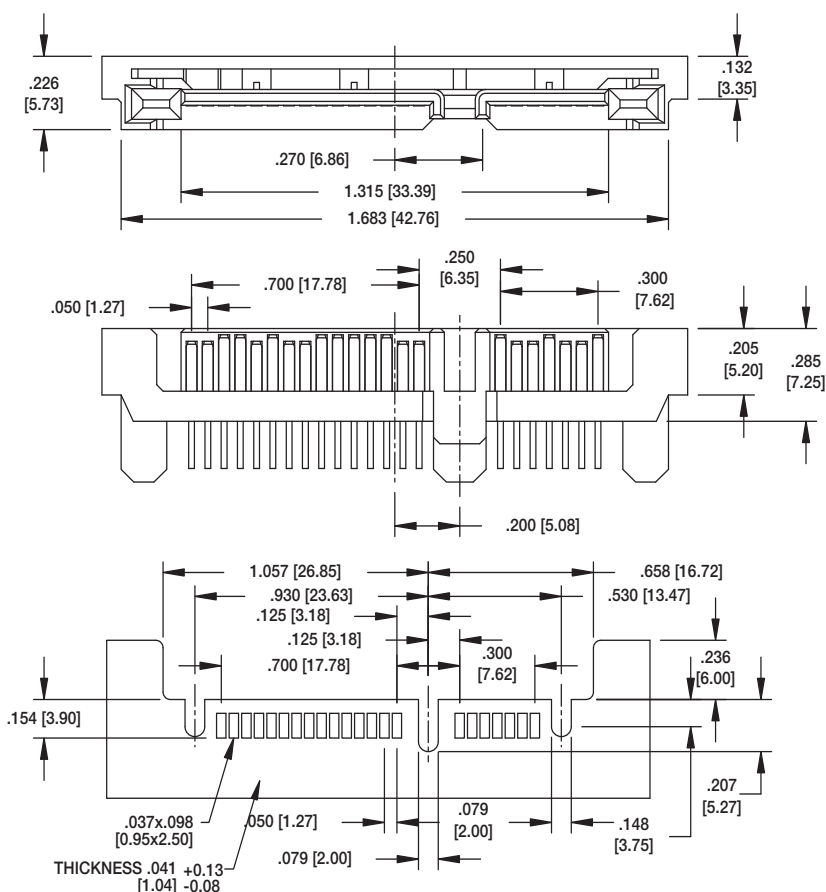
SATA-M
DUAL VERTICAL
THRU-HOLE



SATA-M-PM-VT



**SATA-G
DUAL
STRADDLE
MOUNT**



SATA-G-PM-SM