SATA CONNECTORS

SERIAL ATA

SATA SERIES

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
Intermatable 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.

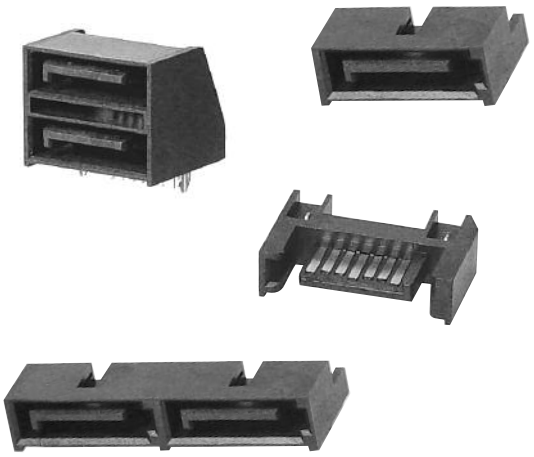
Temperature Rating:

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

RoHS COMPLIANT
HI-TEMP INSULATOR



ORDERING INFORMATION

SATA	A	PL	SMT

SERIES INDICATOR
SATA = Serial ATA Connector

BODY STYLE
A Thru M

POLARIZATION
PL = Left Polarization
PR = Right Polarization
PM = Type G

MOUNTING
VT = Verticle Thru-hole
RT = Right Angle Thru-hole
SM = Straddle mount
SMT = Surface mount

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

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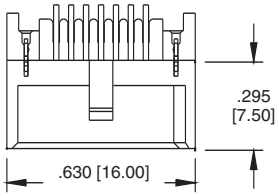
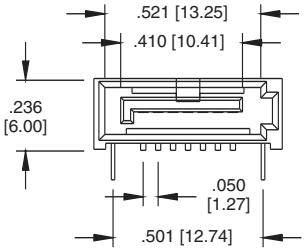
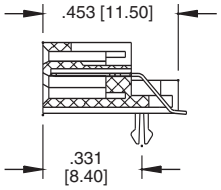
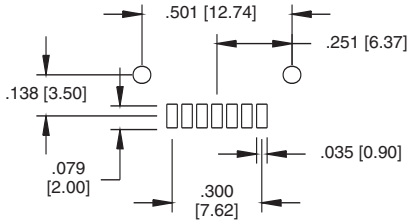
SATA-A
SINGLE R/A
SMT



SATA-A-PL-SMT-K

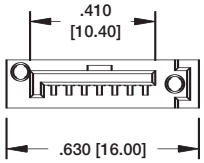




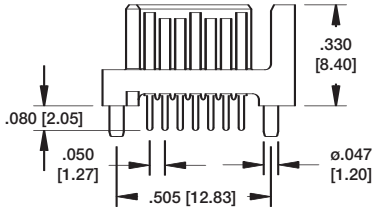


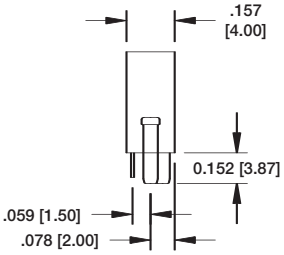
Recommended PCB Layout

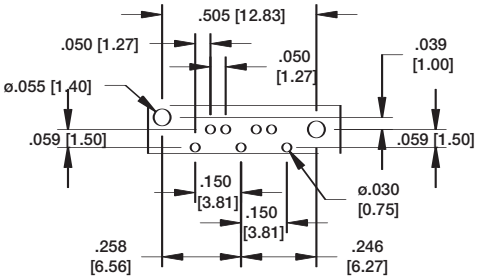
SATA-C
SINGLE
VERTICAL
THRU-HOLE



SATA-C-PR-VT-P

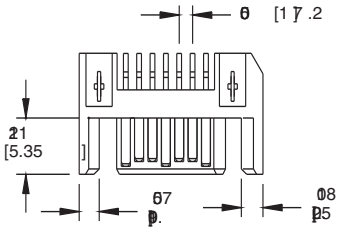




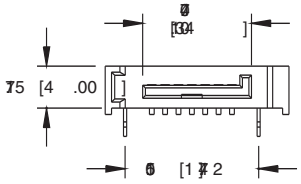


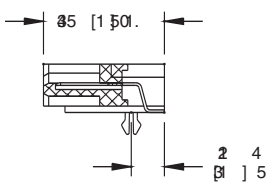
Recommended PCB Layout

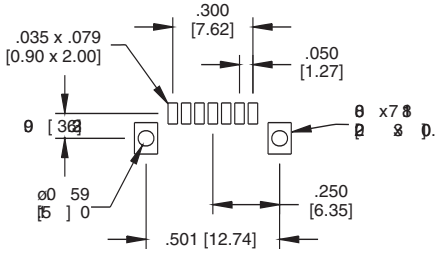
SATA-C
SINGLE R/A
SMT



SATA-C-PR-SMT-K







Recommended PCB Layout

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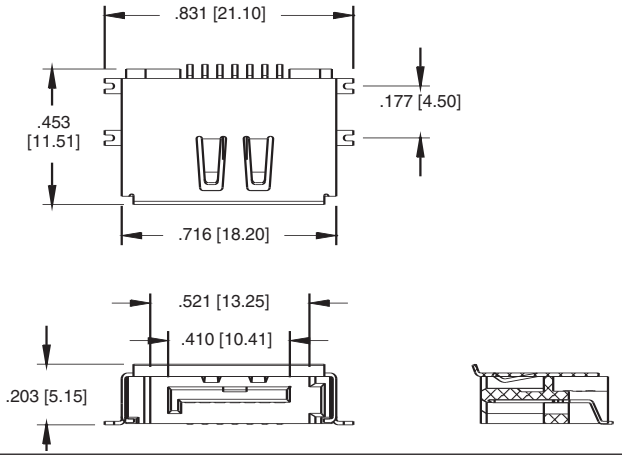
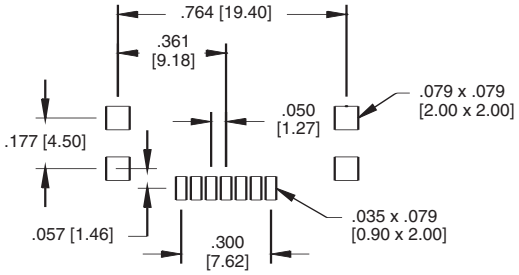
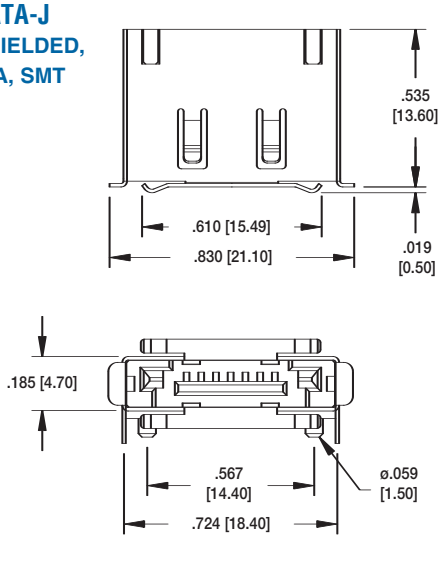
SATA-B
SHIELDED, R/A, TRUE SMT

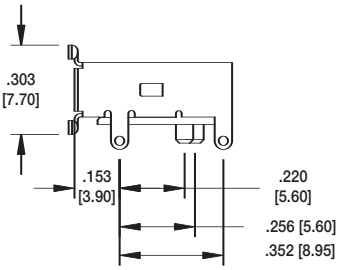


SATA-B-PL-SMT-K

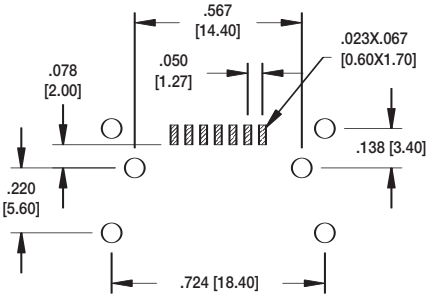


SATA-J
SHIELDED, R/A, SMT

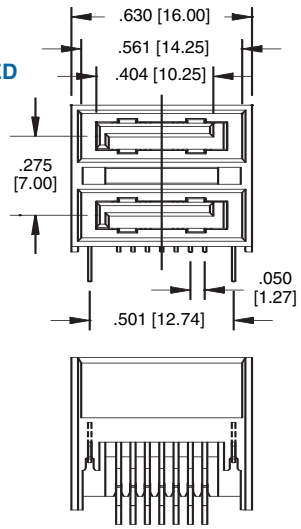


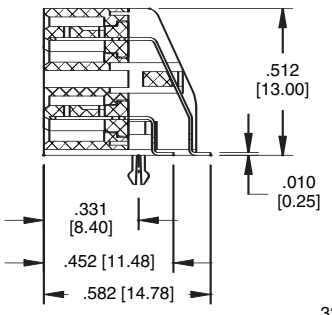


SATA-J-NP-SMT-P-S-PG

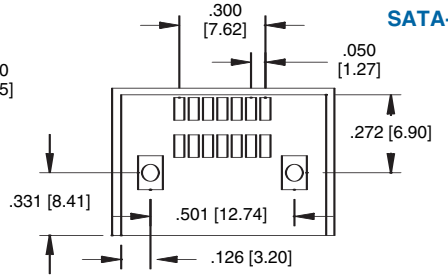


SATA-D
DUAL STACKED SMT





SATA-D-PL-SMT-S



Recommended PCB Layout

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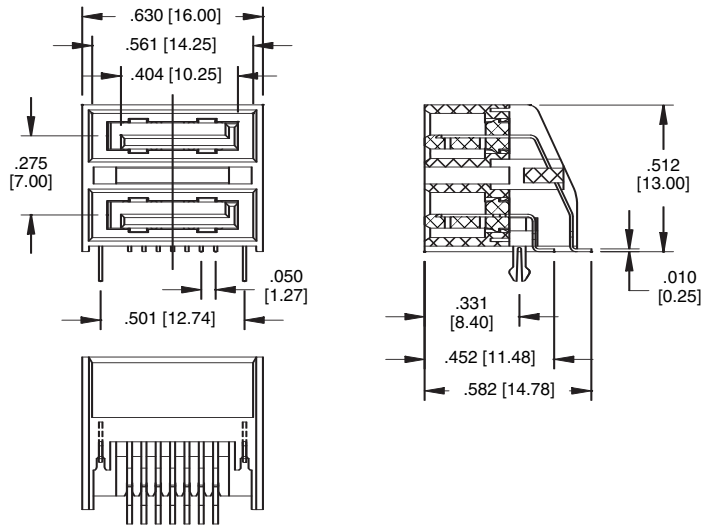
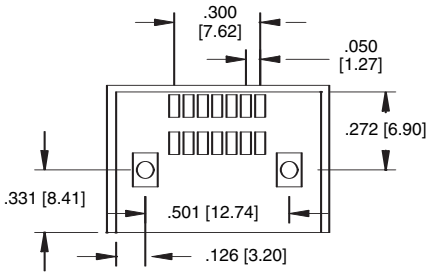
SATA-D
DUAL STACKED, SMT

SATA-D-PR-SMT-S

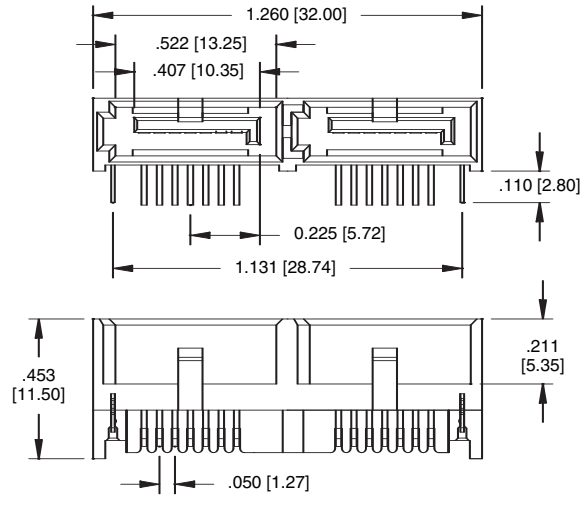


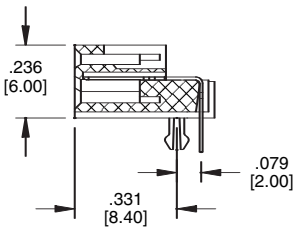


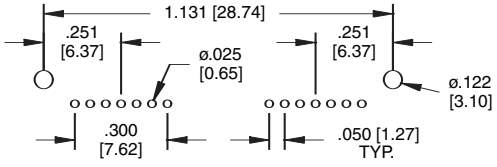
Recommended PCB Layout

SATA-E
DUAL, SIDE BY SIDE
THRU-HOLE

SATA-E-PR-RT-K







Recommended PCB Layout

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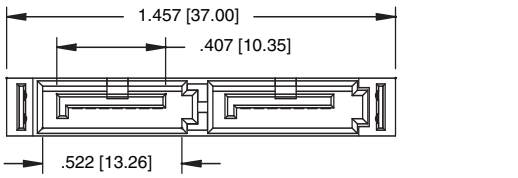
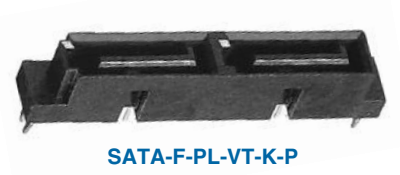
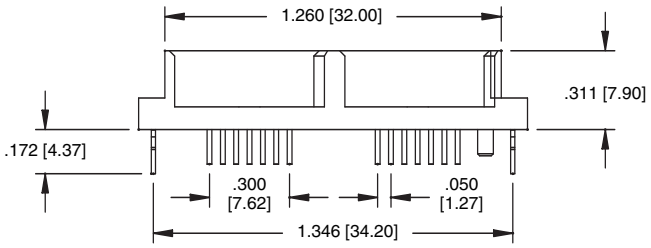
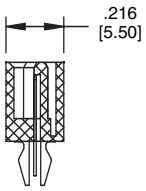
SATA-F
DUAL VERTICAL THRU-HOLE

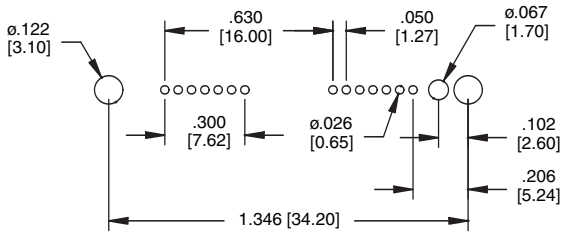




SATA-F-PL-VT-K-P

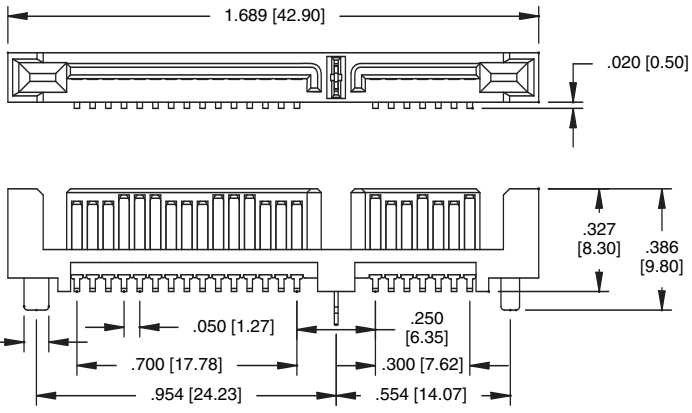


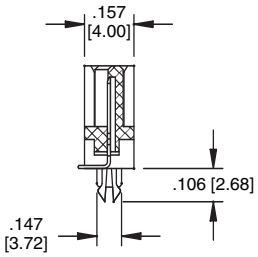


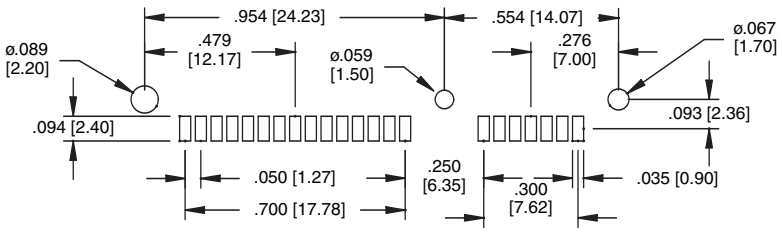


Recommended PCB Layout

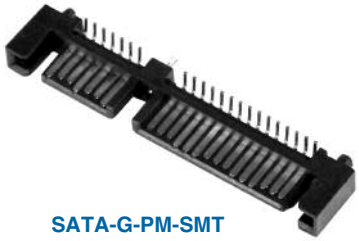
SATA-G
DUAL VERTICAL SMT







Recommended PCB Layout



SATA-G-PM-SMT

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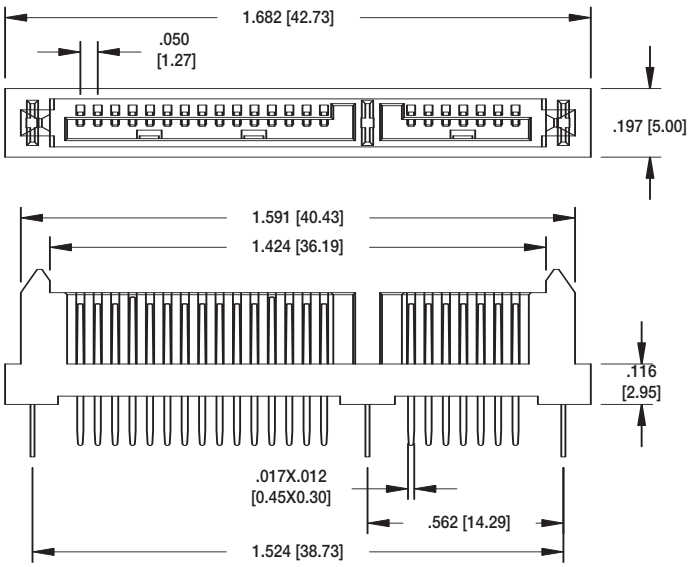
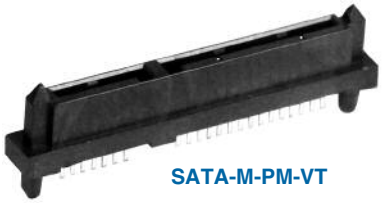
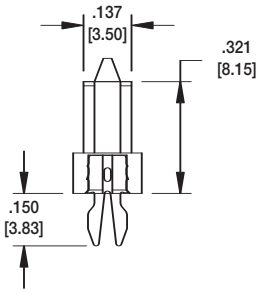
SATA-M
DUAL VERTICAL THRU-HOLE

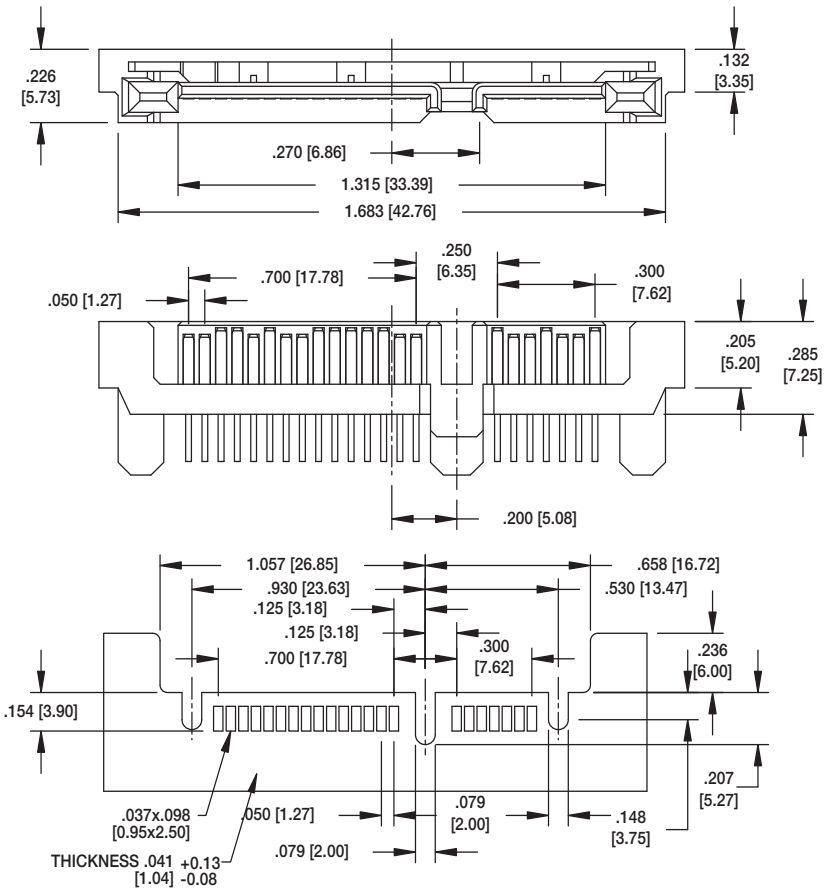


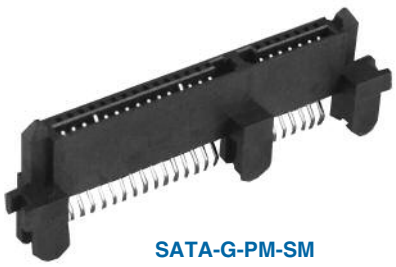


SATA-M-PM-VT



SATA-G
DUAL STRADDLE MOUNT





SATA-G-PM-SM

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