

INTRODUCTION:

Adam Tech SATA & eSATA 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 & eSATA 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 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 +85°C
Soldering process temperature: 260°C

PACKAGING:

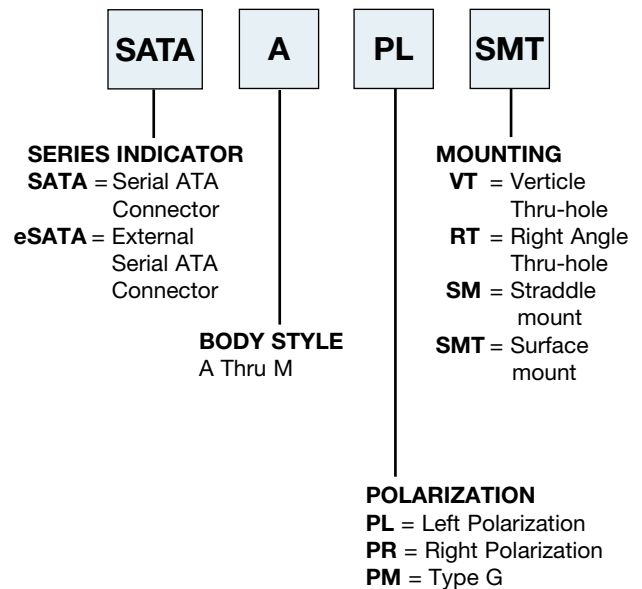
Anti-ESD plastic trays or tubes

APPROVALS AND CERTIFICATIONS:

UL Recognized & CSA Certified, File no. E224053



ORDERING INFORMATION



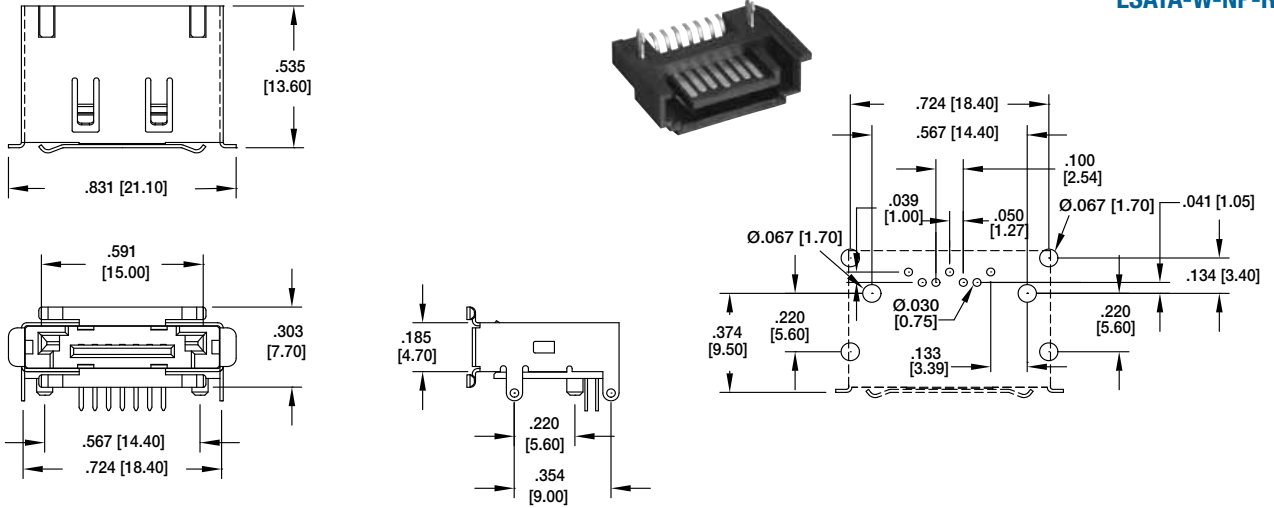
OPTIONS:

Add designator(s) to end of part number

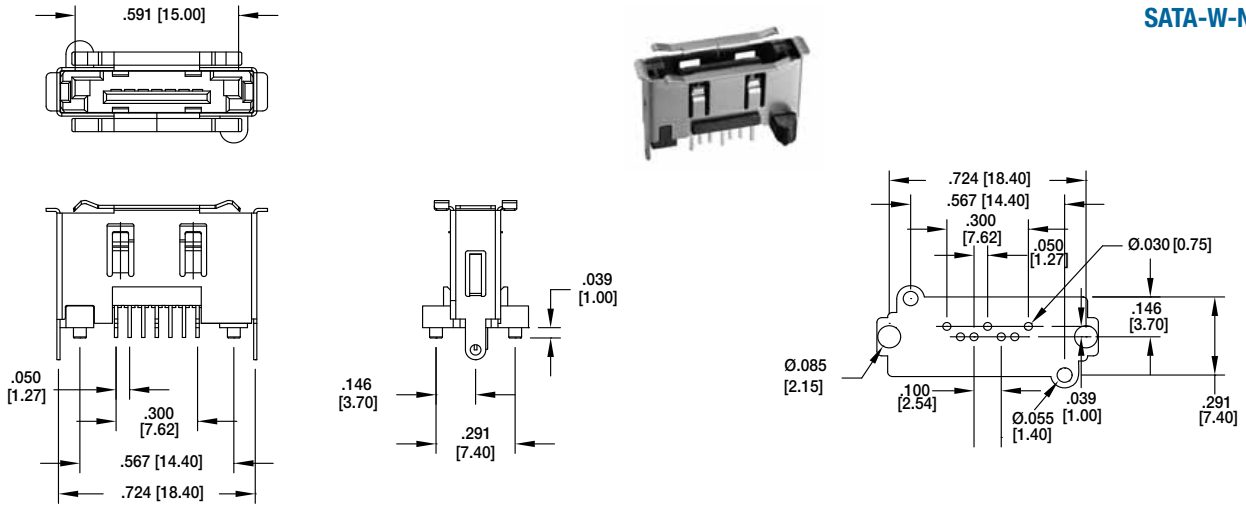
- K** = Key
- S** = Side slots (type D)
- 30** = 30 μin gold plating in contact area
- P** = Locating Pegs



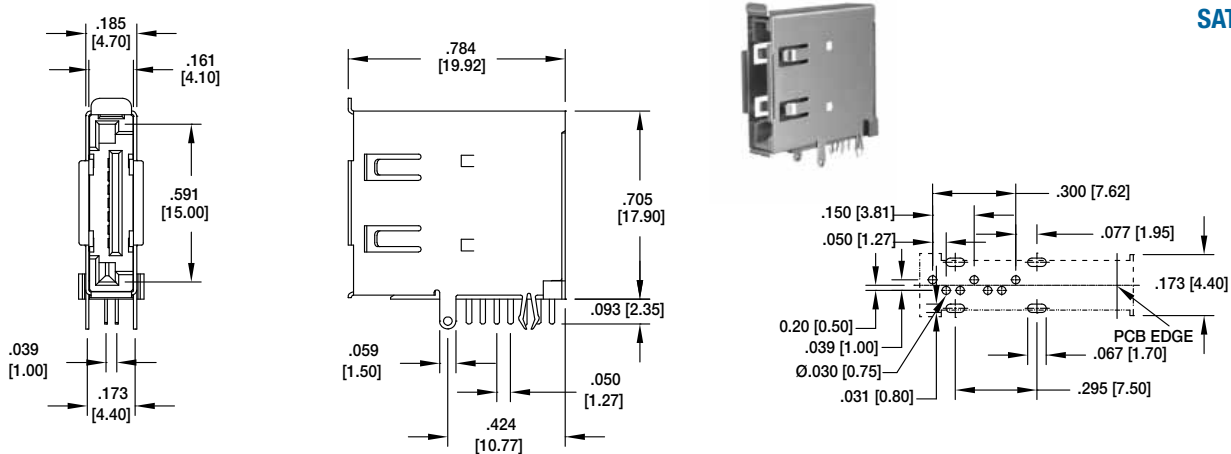
ESATA-W-NP-RA



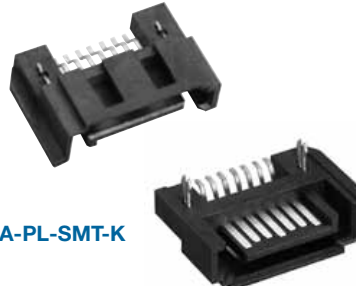
SATA-W-NP-VT



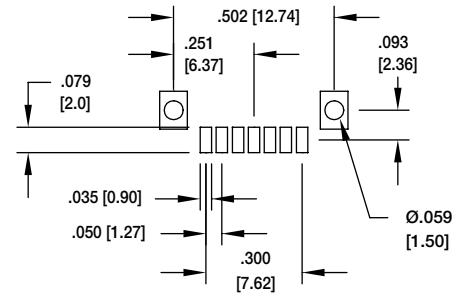
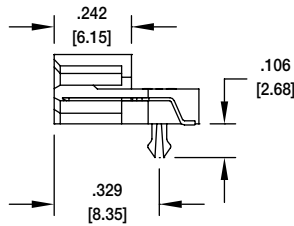
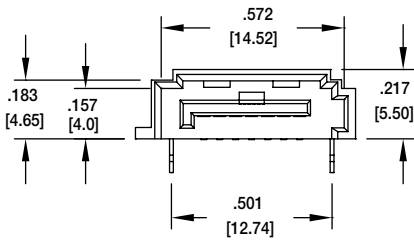
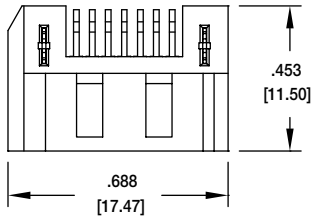
SATA-W-NP-RU



**SATA-A
SINGLE R/A
SMT**



SATA-A-PL-SMT-K

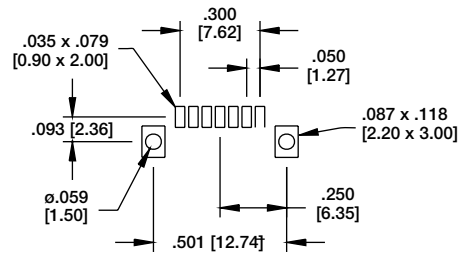
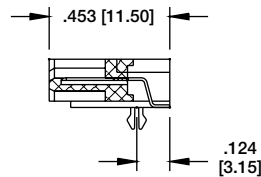
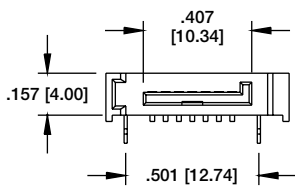
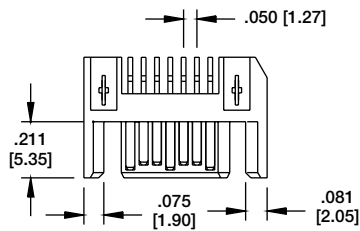


Recommended PCB Layout

**SATA-C
SINGLE R/A
SMT**

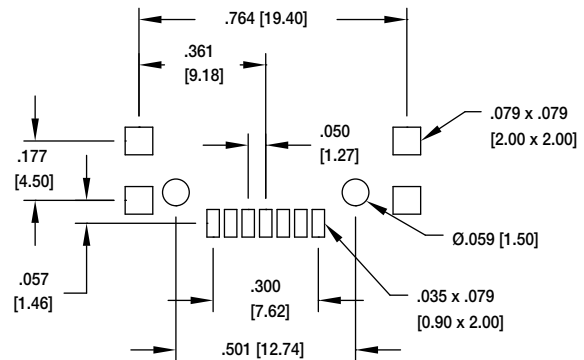
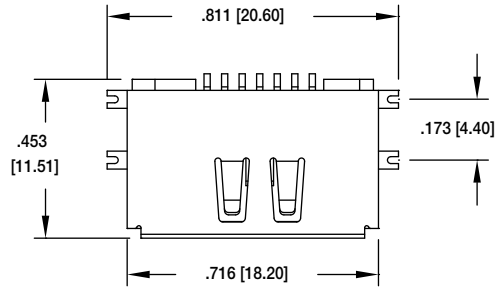


SATA-C-PR-SMT-K

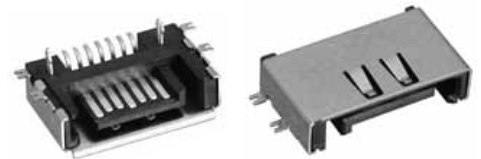
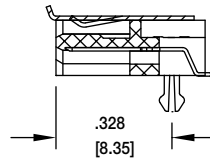
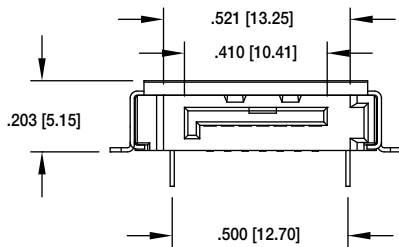


Recommended PCB Layout

SATA-B SHIELDED, R/A, TRUE SMT

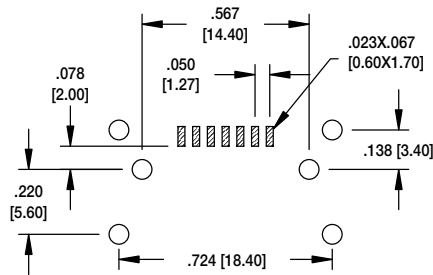
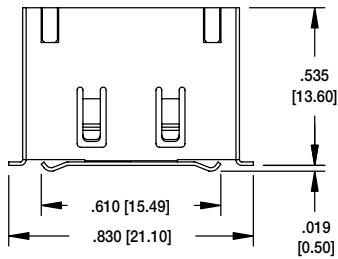


Recommended PCB Layout

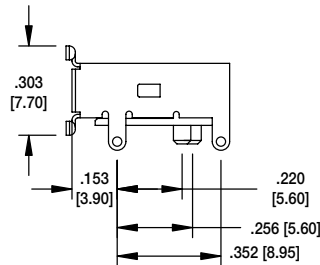
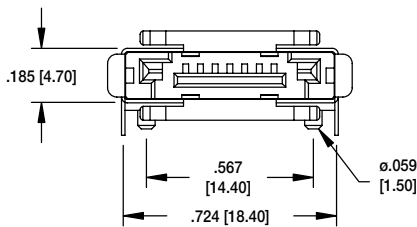


SATA-B-PL-SMT-K

SATA-J SHIELDED, R/A, SMT



Recommended PCB Layout

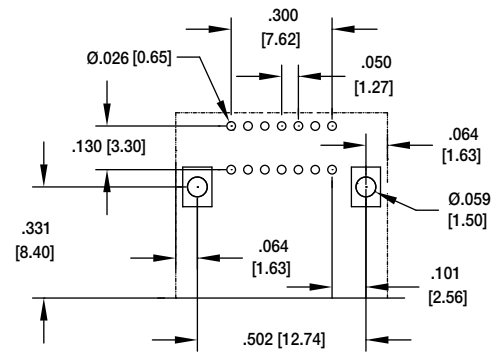
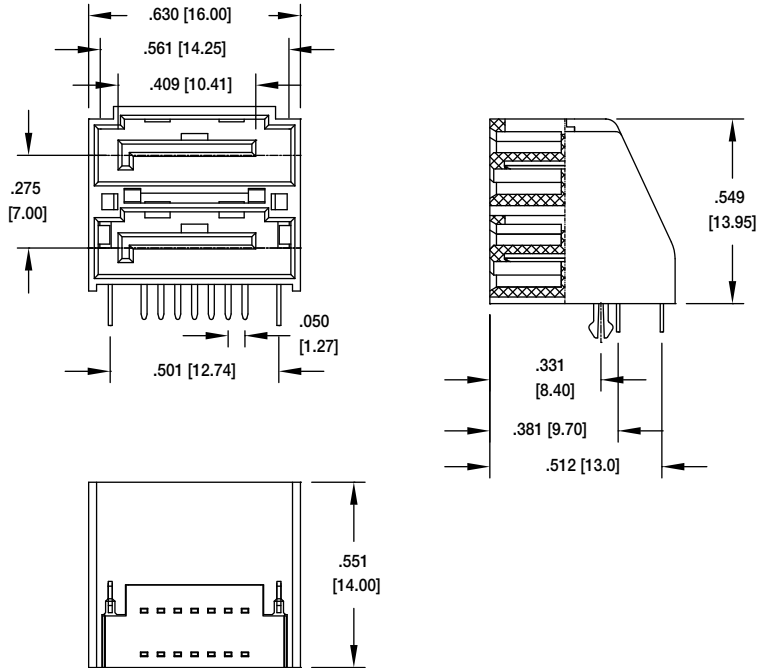


SATA-J-NP-SMT-P-S-PG

SATA-D
DUAL STACKED, SMT



SATA-D-PL-RT

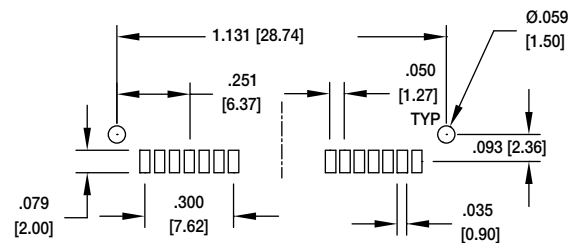
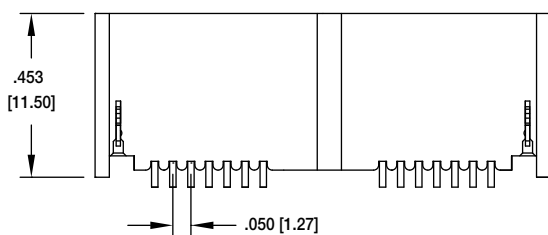
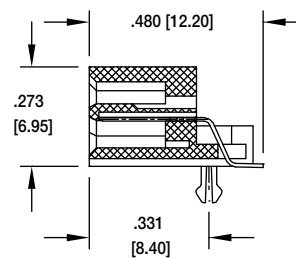
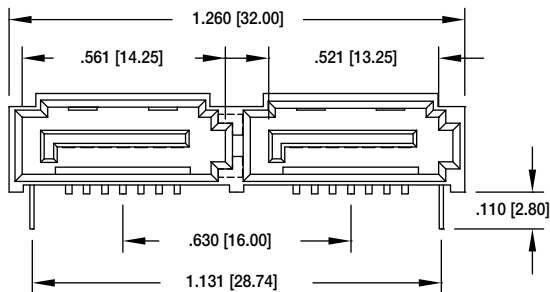


Recommended PCB Layout

SATA-E
DUAL, SIDE BY SIDE
THRU-HOLE

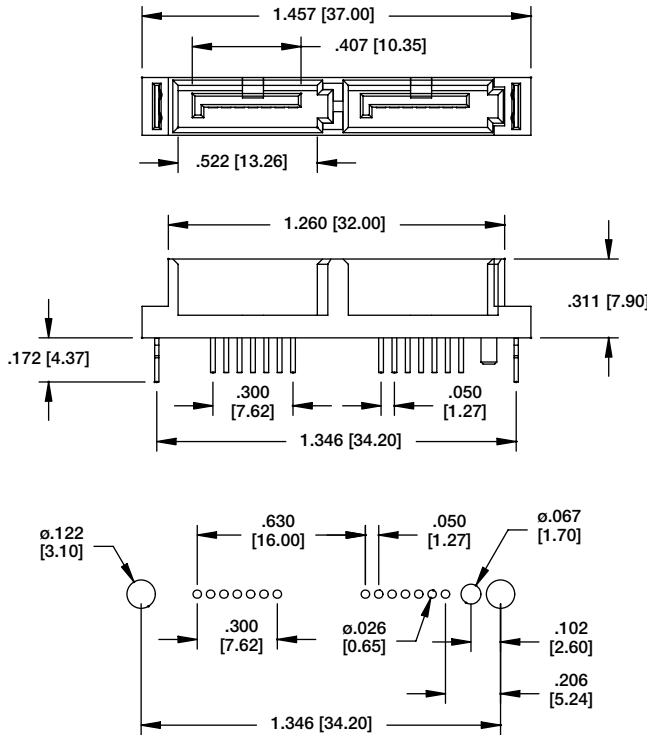


SATA-E-PR-SMT-K



Recommended PCB Layout

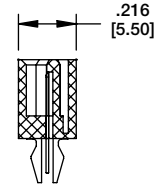
**SATA-F
DUAL VERTICAL
THRU-HOLE**



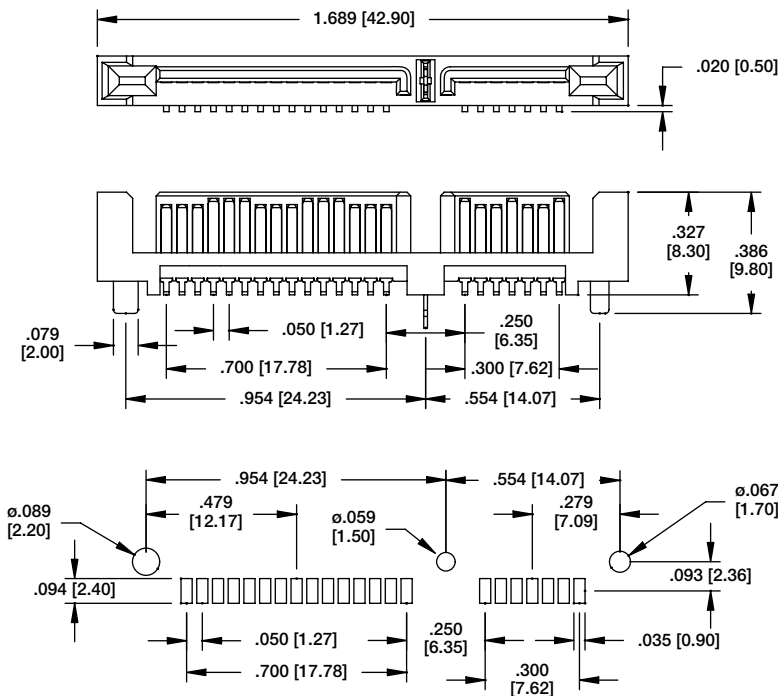
Recommended PCB Layout



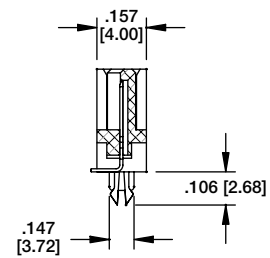
SATA-F-PL-VT-K-P



**SATA-G
DUAL VERTICAL
SMT**

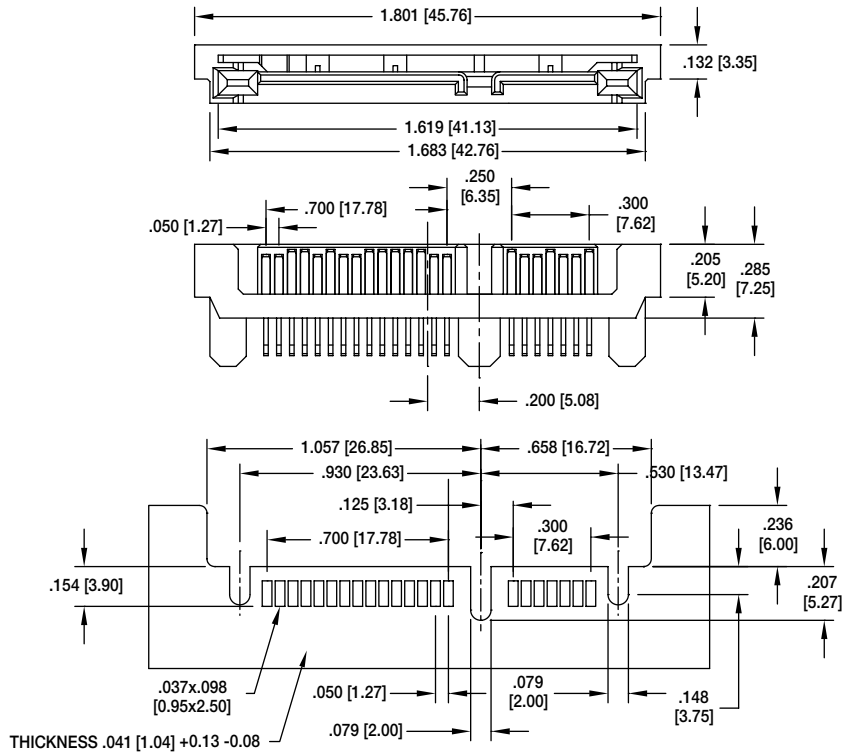


Recommended PCB Layout

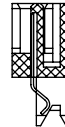


SATA-G-PM-SMT

SATA-M DUAL VERTICAL THRU-HOLE

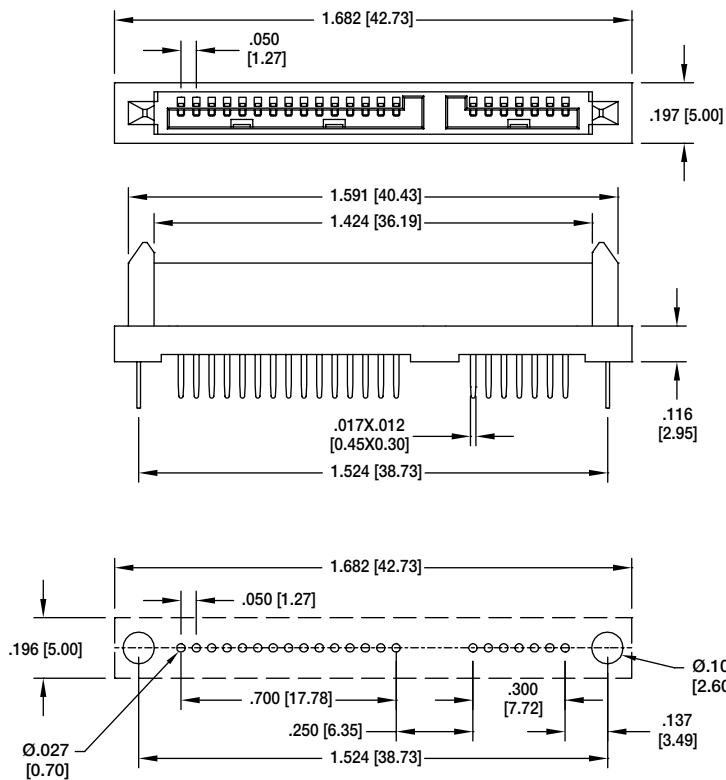


Recommended PCB Layout

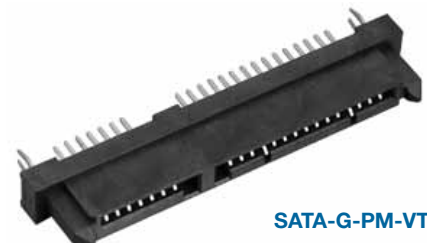
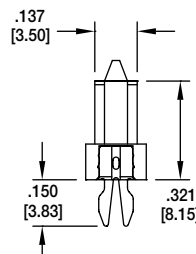


SATA-M-PM-SMT

SATA-G DUAL STRADDLE MOUNT



Recommended PCB Layout



SATA-G-PM-VT