

INTRODUCTION:

Adam Tech USB (Universal Serial Bus) and IEEE 1394 (Firewire) Series connectors are a complete line of shielded, hot pluggable, high speed I/O interface connectors available in a variety of body styles, sizes, positions and mounting orientations. Each is shielded for superior EMI/RFI protection and features spring contacts for exceptional connectivity properties. Specially designed shells with flares eliminate misconnection and kinked boardlocks add a strong, stable PCB attachment. An ideal solution for a low cost, high speed connection to peripheral devices.

FEATURES:

Industry Standard Compatible
High Speed I/O applications
Variety of Circuit sizes
Variety of Body Styles
Standard and Mini versions
Shielded for EMI/RFI protection

MATING CONNECTORS:

Adam Tech USB and IEEE 1394 series connectors and all industry standard USB and IEEE 1394 connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, Glass filled, rated UL94V-0
Optional Hi-Temp insulator: Nylon PA9T, rated UL94V-0
Insulator Color: Black (White optional)
Contacts: Phosphor Bronze or Brass
Shell: Steel, nickel plated

Contact Plating:

Gold Flash over Nickel on mating area, Tin over Copper underplate on tails

Electrical:

Operating Voltage: 30V AC
Current Rating: 1 Amp max.
Contact Resistance: 30 mΩ max.
Insulation Resistance: 1000 MΩ min.
Dielectric Withstanding Voltage: 100V AC for 1 minute

Mechanical:

Insertion force: 3 oz max.
Withdrawal force: 0.5 oz min.

Temperature Ratings:

Operating Temperature: PBT: -40°C to +85°C
Nylon PA9T: -55°C to +105°C

Soldering process temperature:

Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays or tubes

APPROVALS AND CERTIFICATIONS:

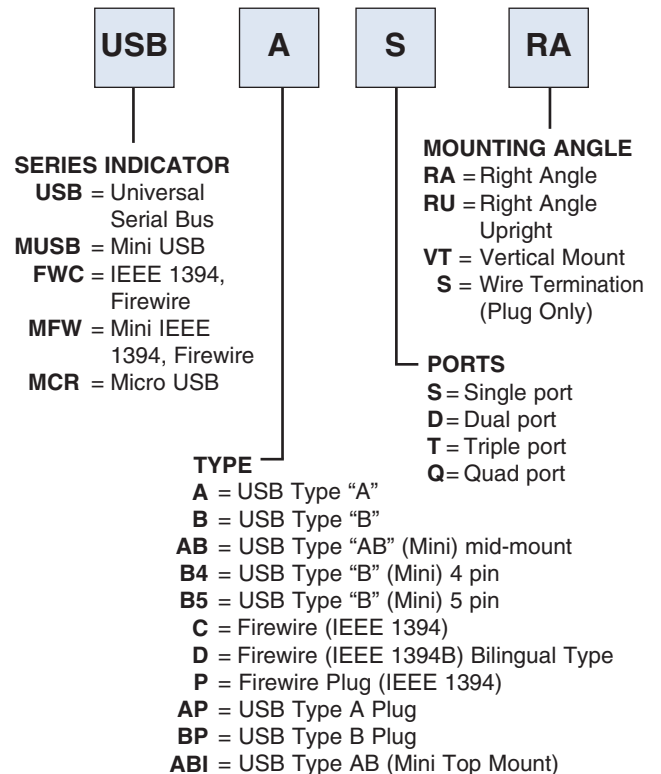
UL Recognized File No. E224053
CSA Certified File No. LR1578596



www.usb.org



ORDERING INFORMATION



OPTIONS:

Add as Suffix to basic part no.

SMT = Surface Mount Leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

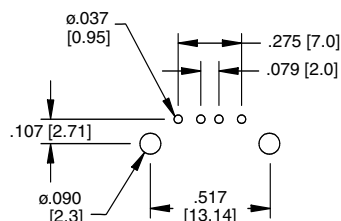
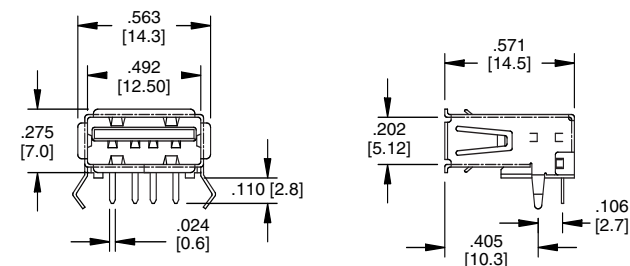
30 = 30 pin gold plating in contact area

WT = White color insulator

HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)

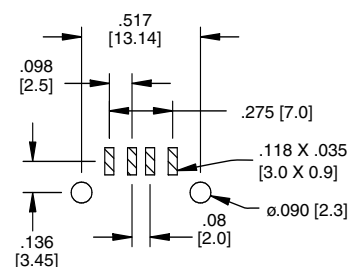
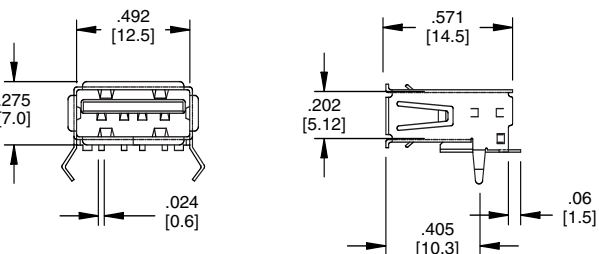
T/R = Tape & Reel packaging

USB-A-S-RA



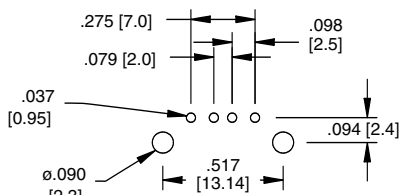
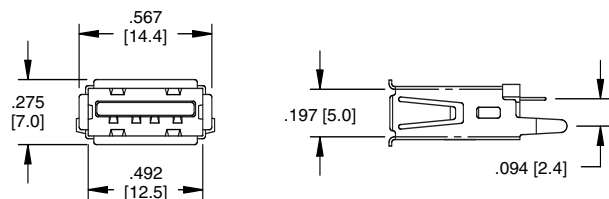
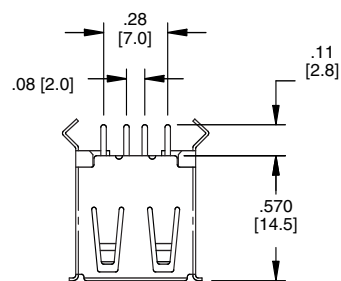
Recommended PCB Layout

USB-A-S-RA-SMT



Recommended PCB Layout

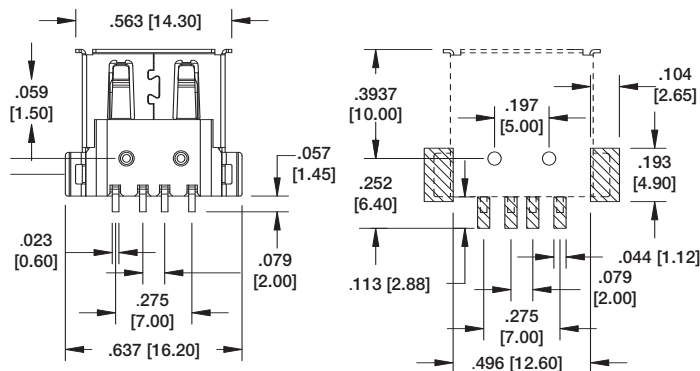
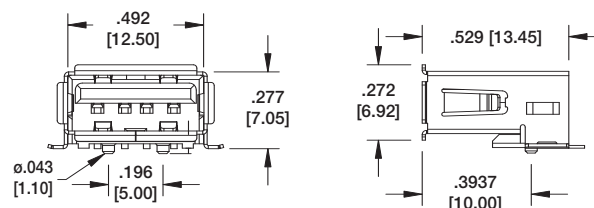
USB-A-S-VT



Recommended PCB Layout
(Bottom View)

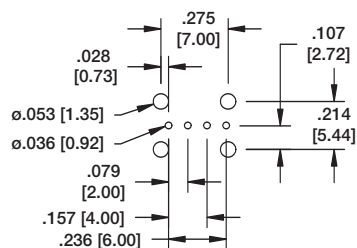
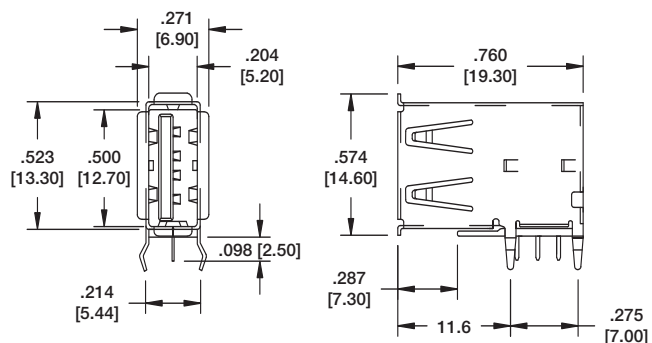


USB-A-S-RA-TSMT



Recommended PCB Layout

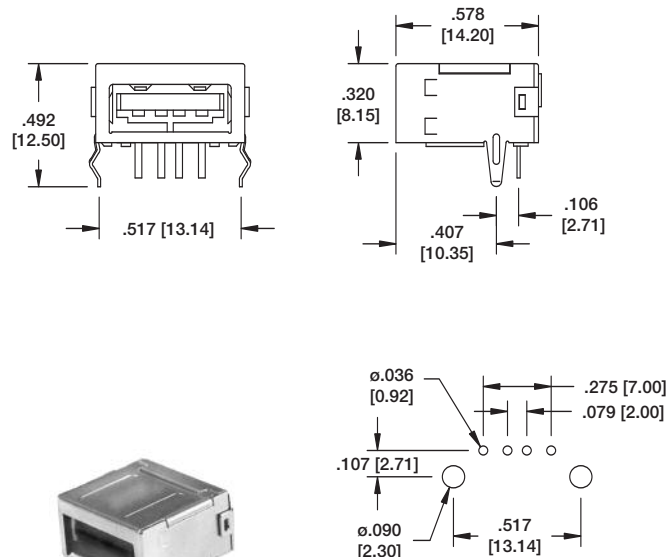
USB-A-S-RU



Recommended PCB Layout



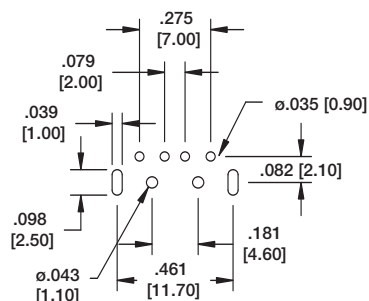
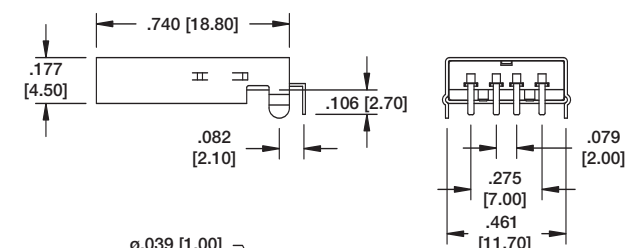
USB-A-S-RA-FS



Recommended PCB Layout



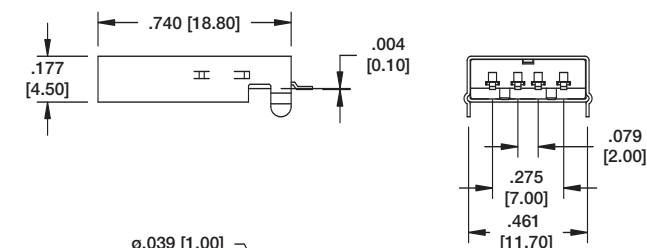
USB-AP-S-RA



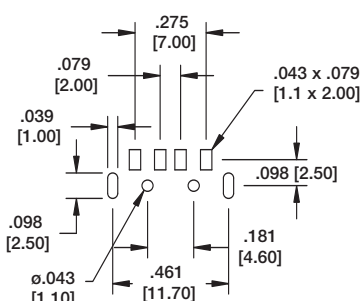
Recommended PCB Layout



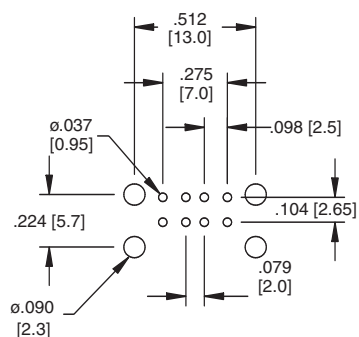
USB-AP-S-RA-SMT



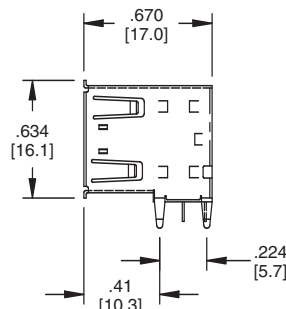
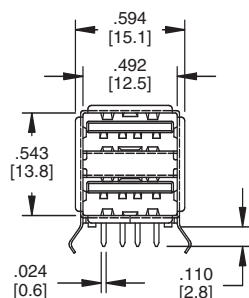
Recommended PCB Layout



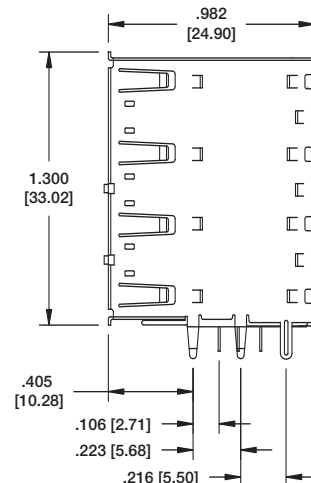
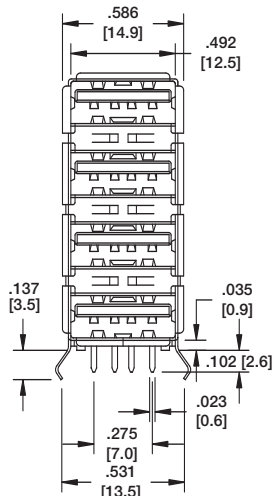
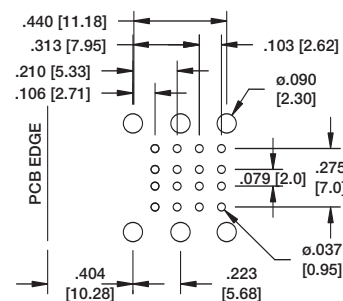
USB-A-D-RA



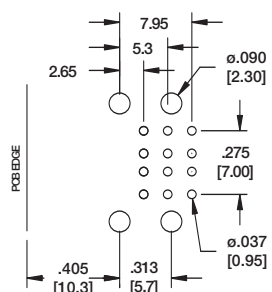
Recommended PCB Layout (Bottom View)



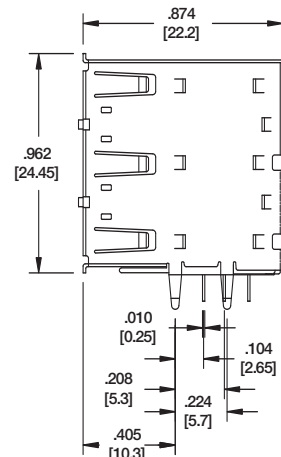
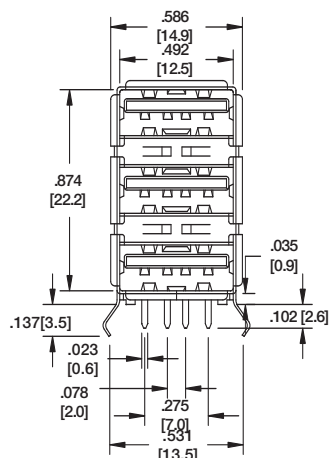
USB-A-Q-RA



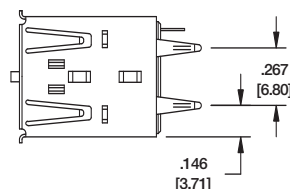
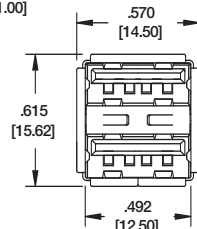
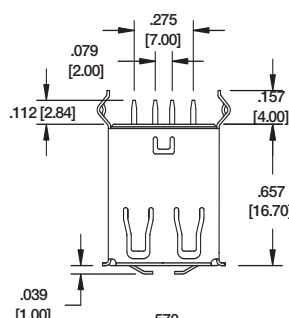
USB-A-T-RA



Recommended PCB Layout (Bottom View)

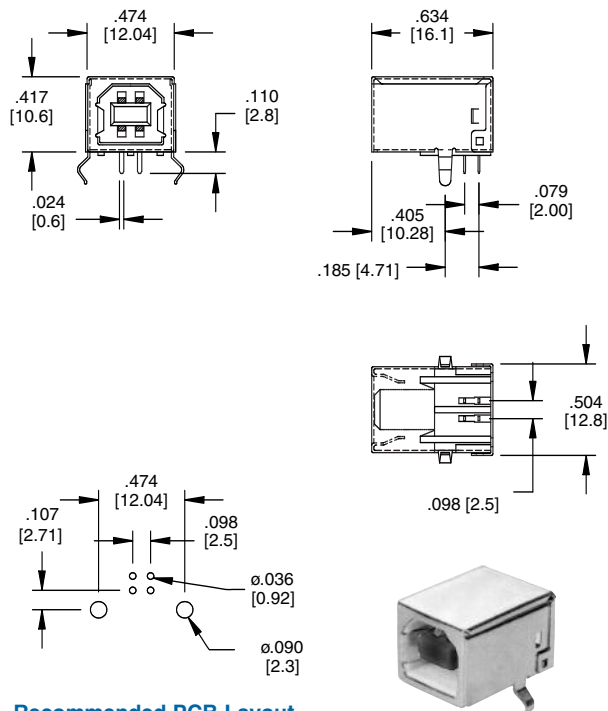


USB-A-D-VT



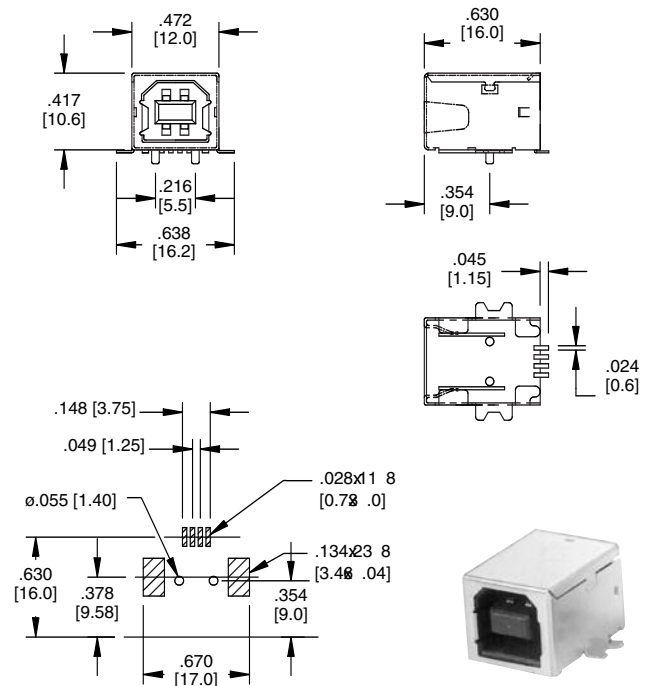
Recommended PCB Layout

USB-B-S-RA



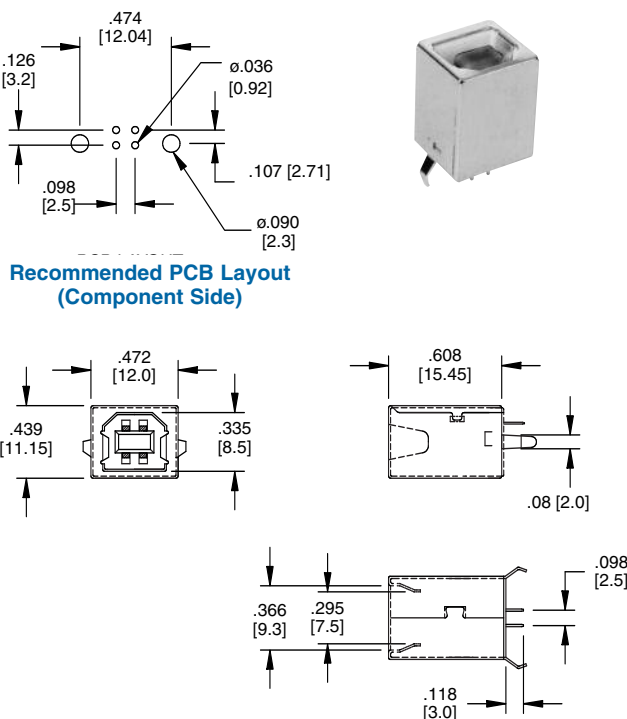
Recommended PCB Layout

USB-B-S-RA-TSMT



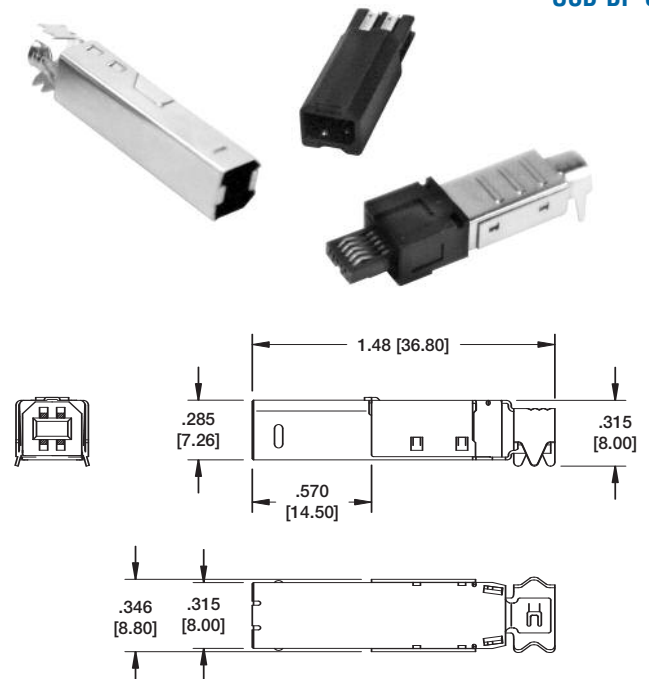
Recommended PCB Layout

USB-B-S-VT

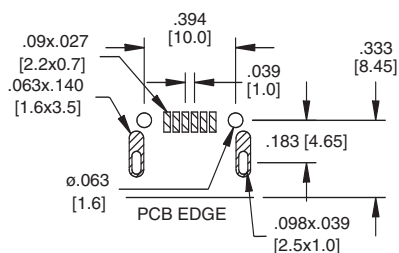


Recommended PCB Layout
(Component Side)

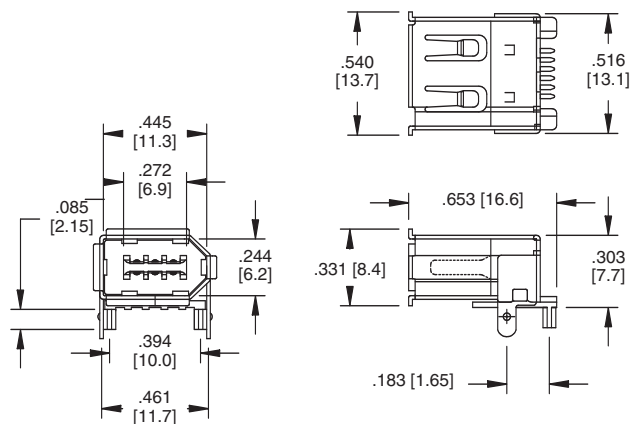
USB-BP-S



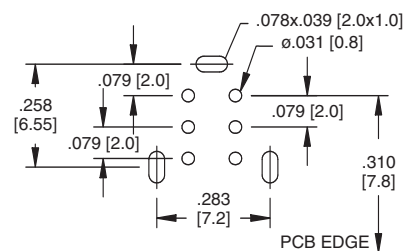
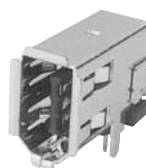
FWC-C-S-RA-SMT



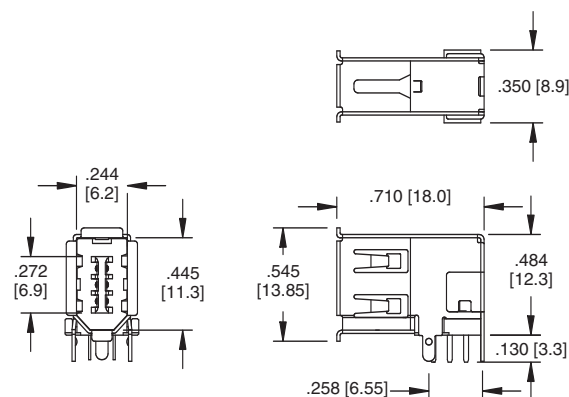
Recommended PCB Layout



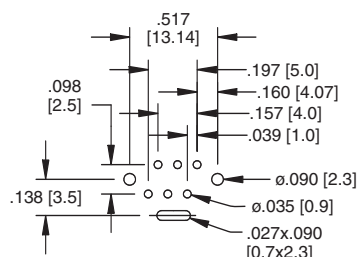
FWC-C-S-RU



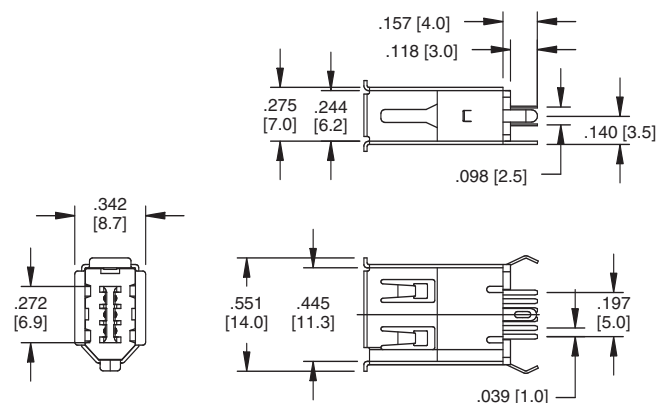
Recommended PCB Layout



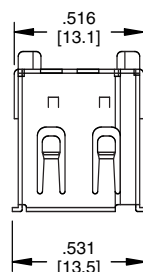
FWC-C-S-VT



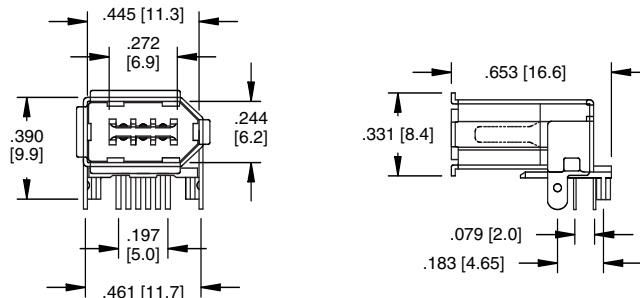
Recommended PCB Layout



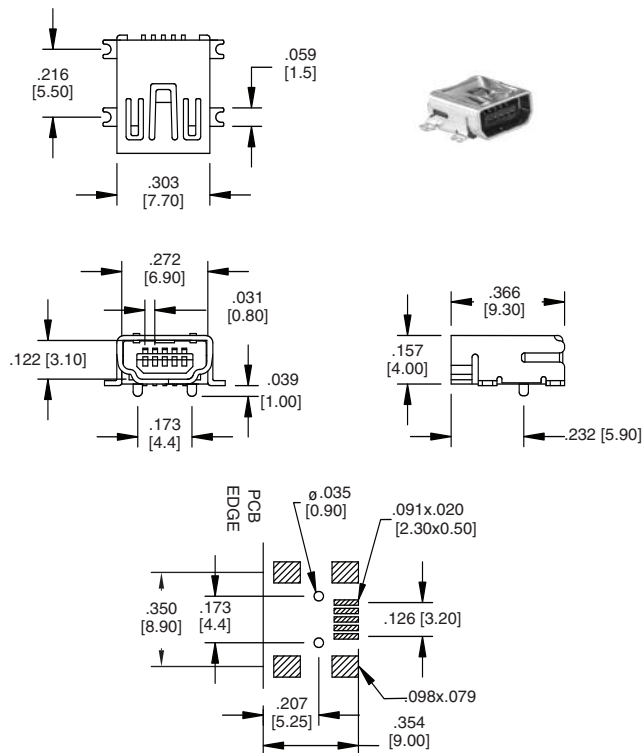
FWC-C-S-RA



Recommended PCB Layout

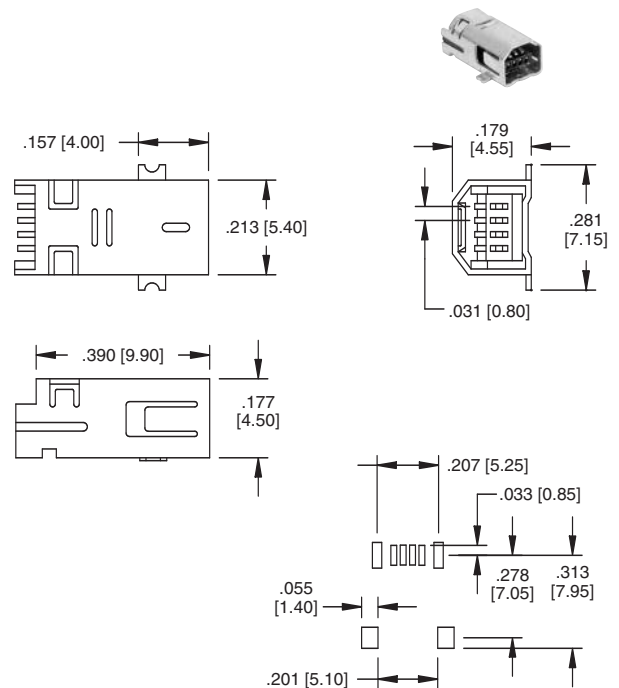


MUSB-A-S-RA-TSMT



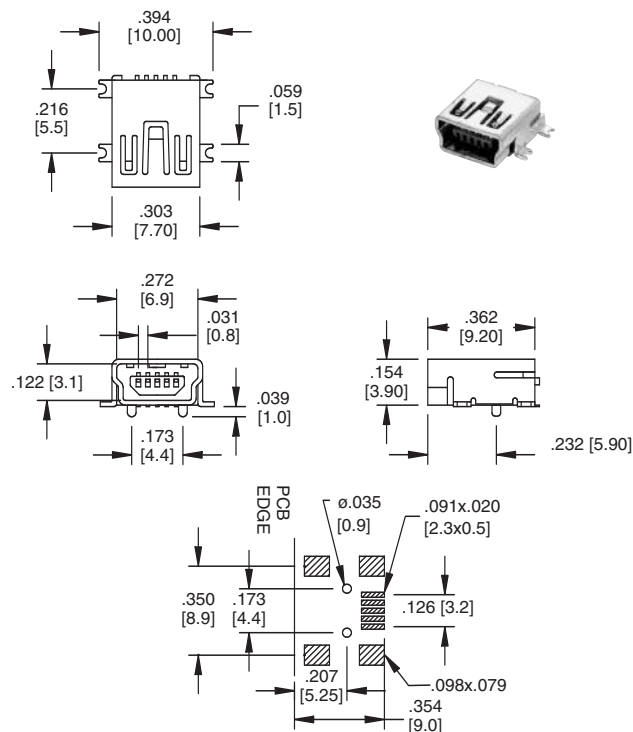
Recommended PCB Layout

MUSB-B4-S-RA-TSMT



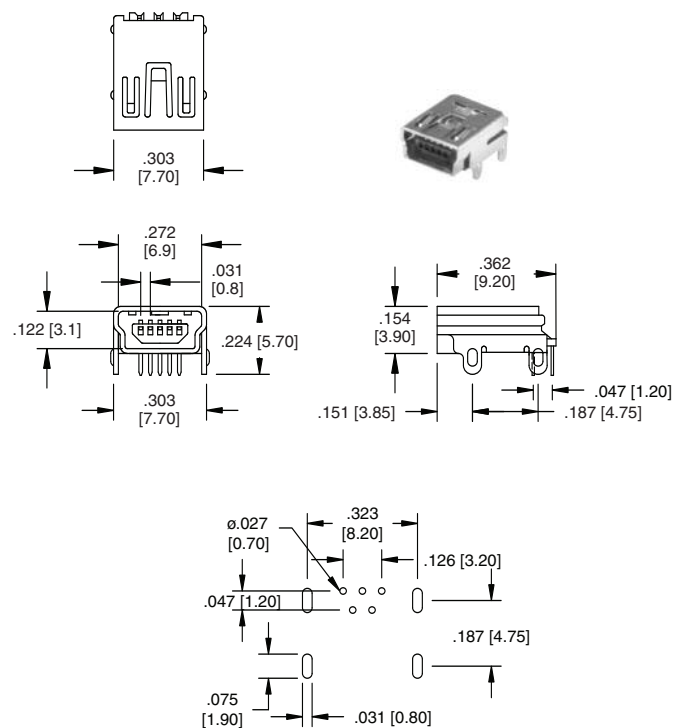
Recommended PCB Layout

MUSB-B5-S-RA-TSMT



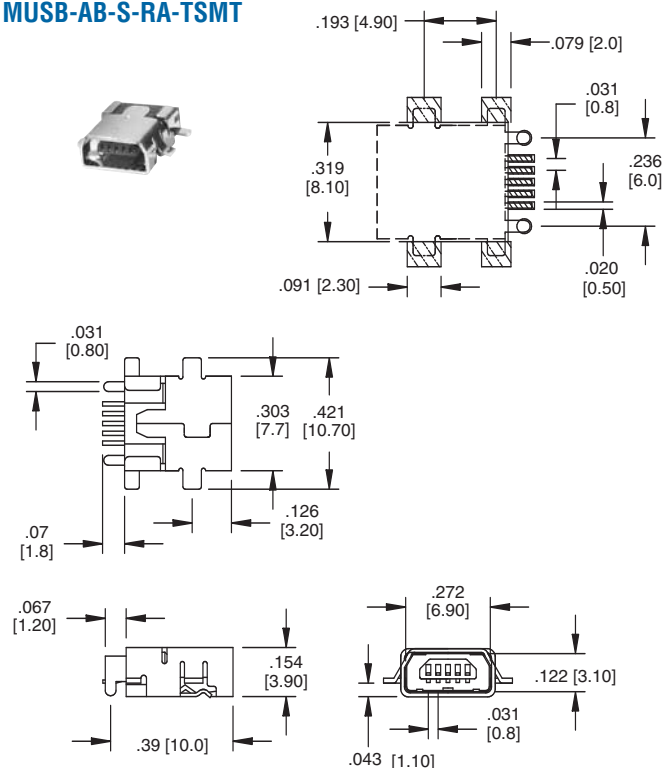
Recommended PCB Layout

MUSB-B5-S-RA



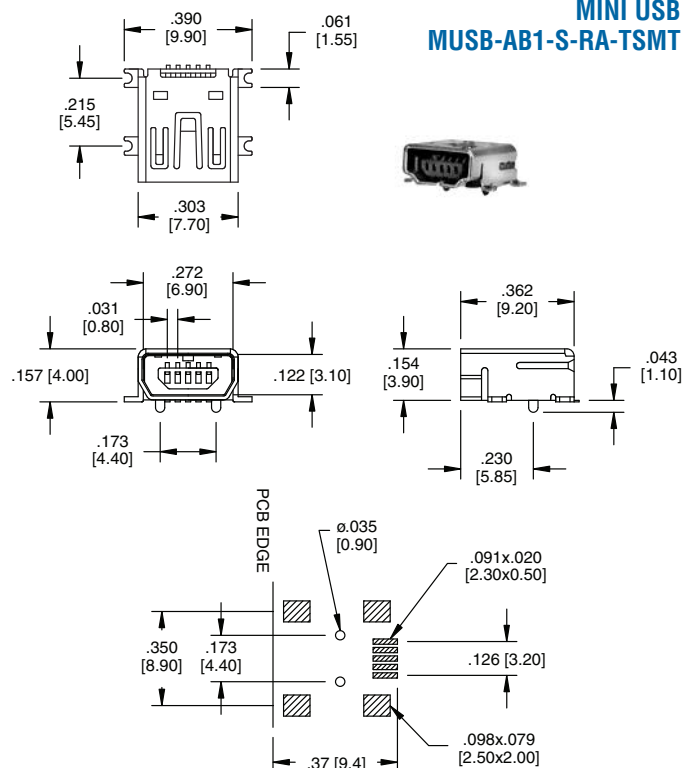
Recommended PCB Layout

MINI USB MUSB-AB-S-RA-TSMT



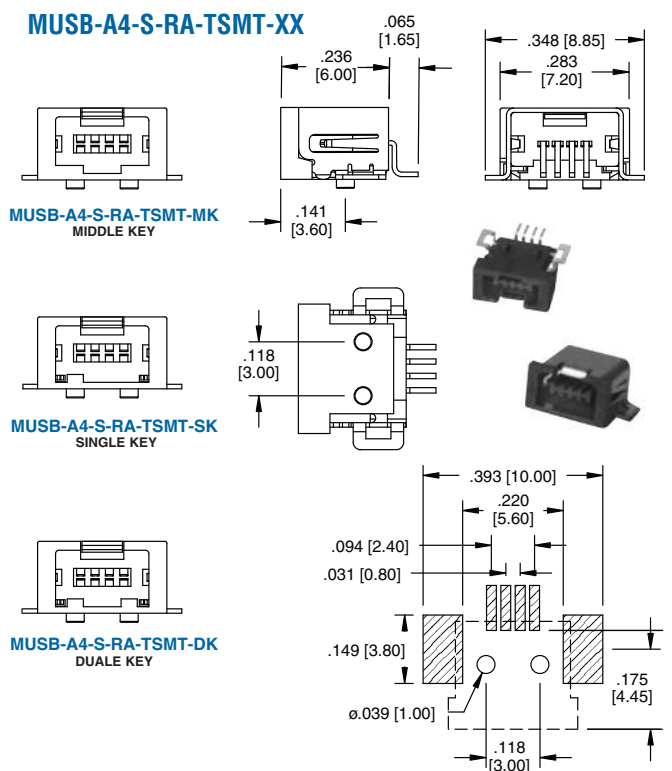
Recommended PCB Layout

MINI USB MUSB-AB1-S-RA-TSMT



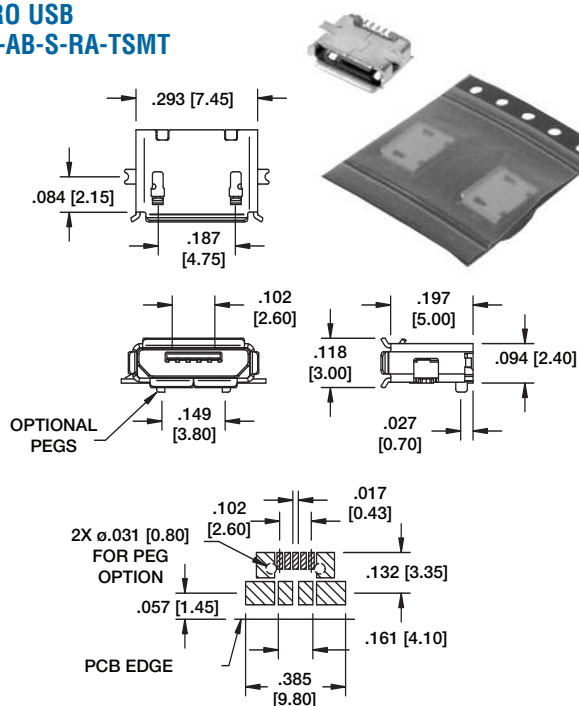
Recommended PCB Layout

MUSB-A4-S-RA-TSMT-XX



Recommended PCB Layout

MICRO USB MCR-AB-S-RA-TSMT



Recommended PCB Layout