

USB, MINI USB, FIREWIRE & MINI FIREWIRE

UNIVERSAL SERIAL BUS & IEEE 1394 FIREWIRE



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 m Ω max. Insulation Resistance: 1000 M Ω 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



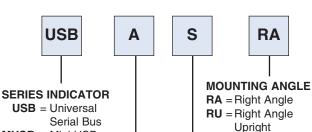
www.usb.org







ORDERING INFORMATION



MUSB = Mini USB FWC = IEEE 1394,

Firewire

MFW = Mini IEEE

1394, Firewire MCR = Micro USB

- PORTS S = Single port D = Dual port

VT = Vertical Mount

S = Wire Termination

(Plug Only)

T = Triple port **Q** = Quad port

A = USB Type "A"

TYPE -

 $\mathbf{B} = \text{USB Type 'B'}$

AB = USB Type "AB" (Mini) mid-mount

B4 = USB Type "B" (Mini) 4 pin **B5** = USB Type "B" (Mini) 5 pin

C = Firewire (IEEE 1394)

D = Firewire (IEEE 1394B) Bilingual Type

P = Firewire Plug (IEEE 1394)

AP = USB Type A Plug **BP** = USB Type B Plug

ABI = USB Type AB (Mini Top Mount)

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

 $30 = 30 \mu in gold plating in contact area$

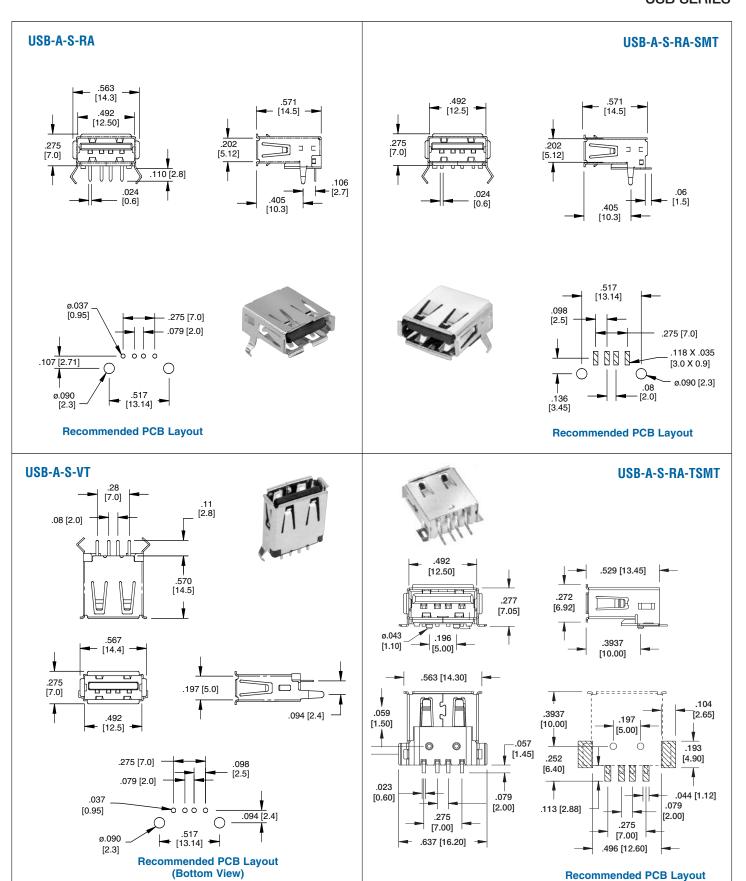
WT = White color insulator

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



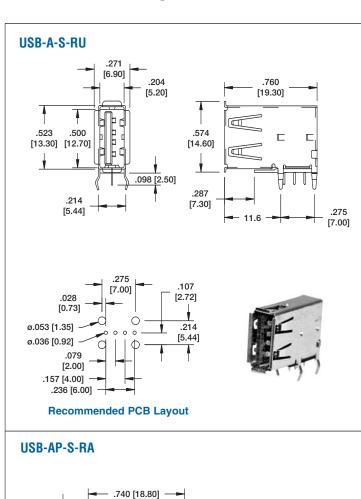
TYPE A SINGLE PORT USB SERIES

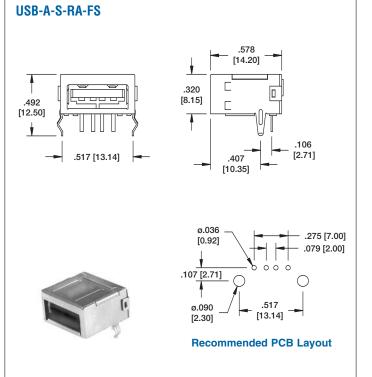


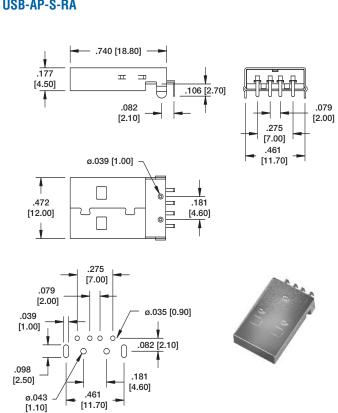


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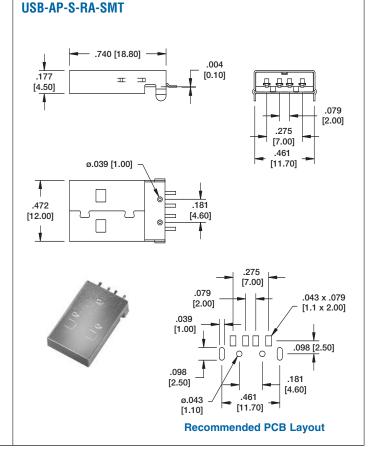
Adam Technologies, Inc.





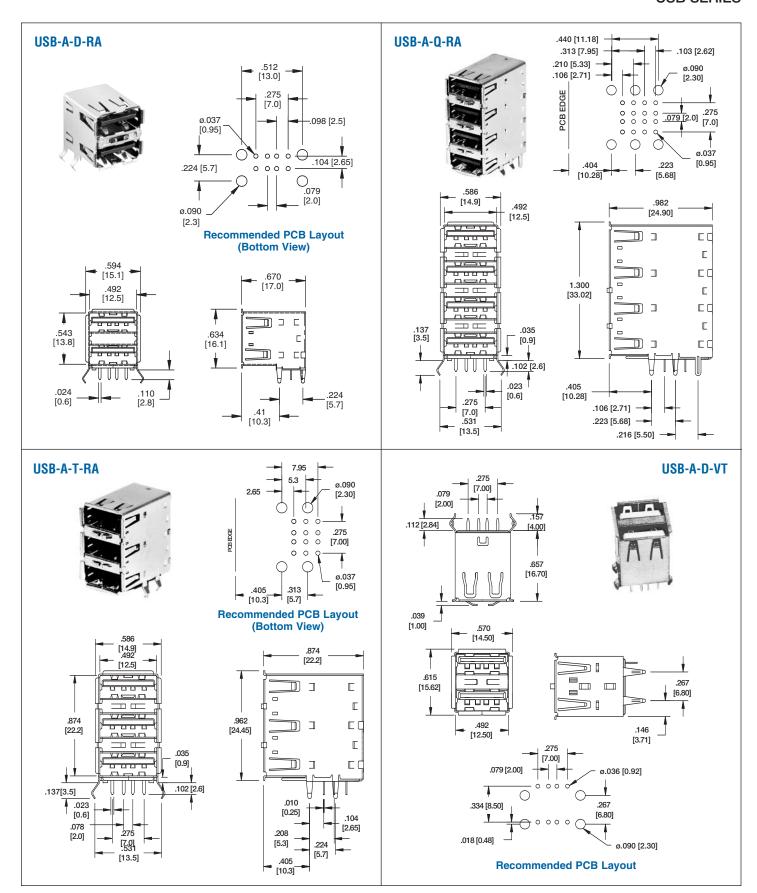


Recommended PCB Layout



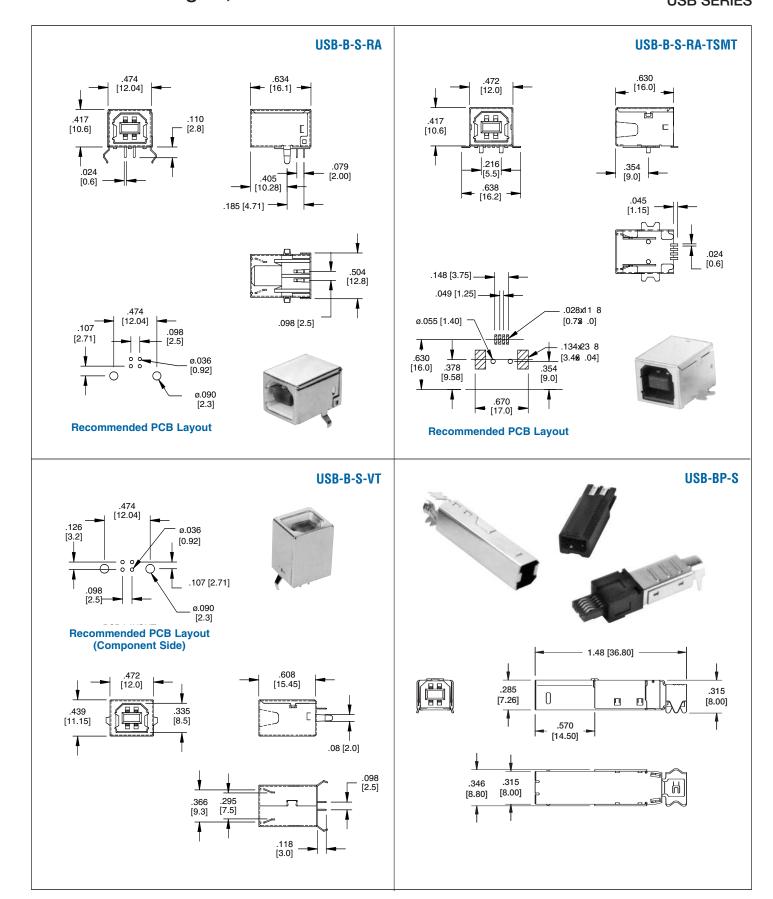


TYPE A STACKED PORTS
USB SERIES





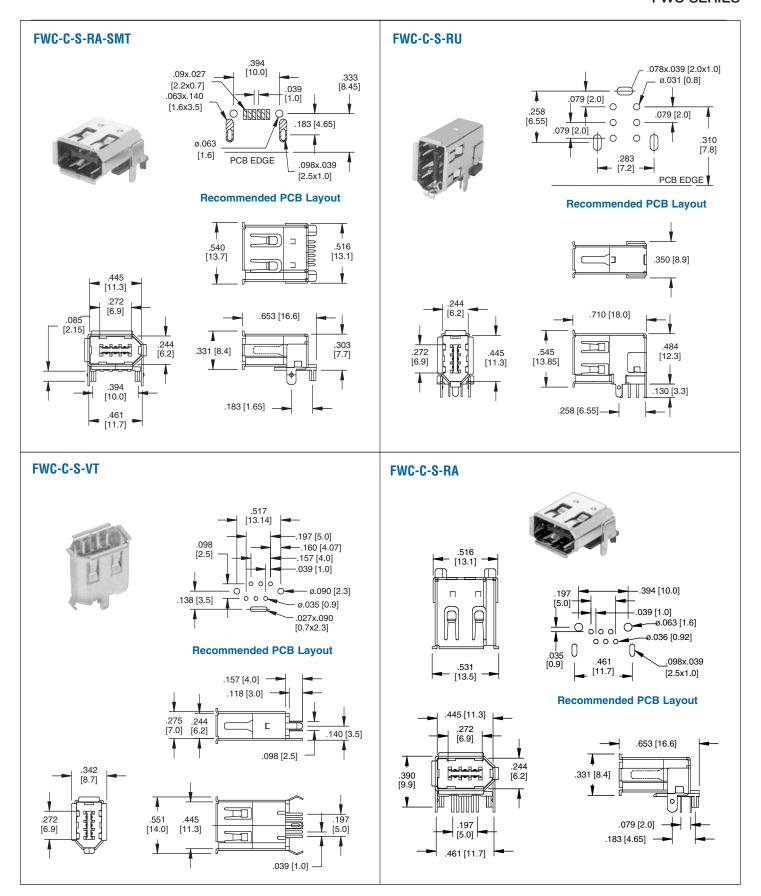
TYPE B SINGLE PORT & TYPE B PLUG
USB SERIES





IEEE 1394 FIREWIRE

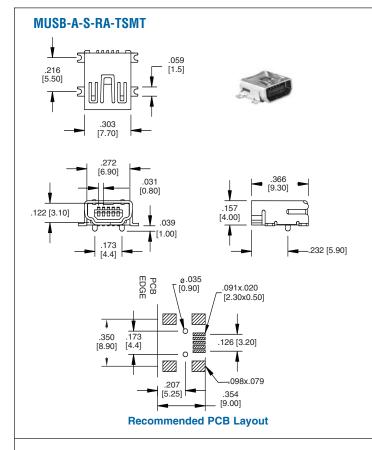
SINGLE PORT, THRU-HOLE & SMT FWC SERIES

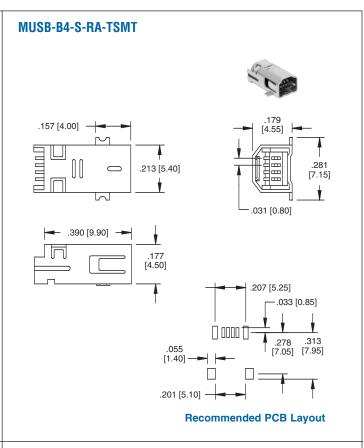


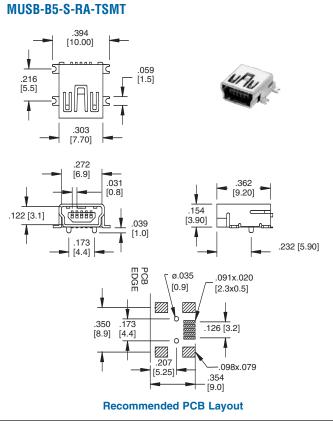


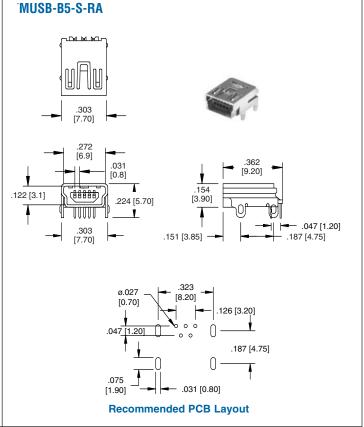
MINI USB

TYPE A, B4 & B5
MUSB SERIES











MINI & MICRO USB

TYPE AB, AB1 & A4
MUSB SERIES

