INTRODUCTION:
Adam Tech USB, Mini USB & Micro 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:
USB-IF 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, Mini USB & Micro 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 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: -55°C to +85°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

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
TSMT = True Surface Mount Leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
30 = 30 µin 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

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USB 2.0 CONNECTOR
TYPE A SINGLE PORT
USB SERIES

USB 2.0, TYPE A
ANGLE UPRIGHT, THRU-HOLE

Recommended PCB Layout

USB 2.0, TYPE A PLUG
RIGHT ANGLE, THRU-HOLE

Recommended PCB Layout

USB 2.0, TYPE A PLUG
RIGHT ANGLE, SMT

Recommended PCB Layout
USB 2.0 CONNECTOR
TYPE A STACKED PORTS
USB SERIES

USB 2.0, TYPE A, 2 PORT STACKED, RIGHT ANGLE, THRU-HOLE

Recommended PCB Layout
(Bottom View)

USB 2.0, TYPE A, 2 PORT STACKED, VERTICAL, THRU-HOLE

Recommended PCB Layout
USB 2.0 CONNECTOR
TYPE B CONNECTOR & PLUG
USB SERIES

USB 2.0, TYPE B
RIGHT ANGLE, THRU-HOLE

USB 2.0, TYPE B
RIGHT ANGLE, TRUE SMT

USB 2.0, TYPE B
VERTICAL, THRU-HOLE

USB 2.0, TYPE B
PLUG

Recommended PCB Layout
(Component Side)

Recommended PCB Layout
MINI USB 2.0 CONNECTOR
TYPE A, B4 & B5
MUSB SERIES

MINI USB 2.0, TYPE A
RIGHT ANGLE, TRUE SMT

MINI USB 2.0, TYPE B (5 PIN)
RIGHT ANGLE, TRUE SMT

MINI USB 2.0, TYPE B (5 PIN)
RIGHT ANGLE, THRU-HOLE

Recommended PCB Layout
MICRO USB 2.0 & 3.0 CONNECTOR
TYPE AB, AB3, B & B3
MUSB SERIES

MICRO USB 2.0, TYPE AB
RIGHT ANGLE, TRUE SMT

MICRO USB 2.0, TYPE B
RIGHT ANGLE, TRUE SMT

MICRO USB 3.0,
RIGHT ANGLE TRUE SMT

MICRO USB 3.0,
RIGHT ANGLE SMT

Recommended PCB Layout

MCR-AB-S-RA-TSMT

MCR-B-S-RA-TSMT

MCR-AB3-RA-TSMT

MCR-B3-RA-SMT

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IEEE 1394, RIGHT ANGLE, SMT

Recommended PCB Layout

IEEE 1394, RIGHT ANGLE UPRIGHT, THRU-HOLE

Recommended PCB Layout

MINI IEEE 1394, RIGHT ANGLE, SMT

Recommended PCB Layout (Bilingual)

IEEE 1394, RIGHT ANGLE, SMT

Recommended PCB Layout

MINI IEEE 1394, RIGHT ANGLE, SMT

Recommended PCB Layout