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 & CSA Certified, File no. E224053

USB, MINI USB, MICRO USB
FIRESHIRE & MINI FIREWIRE
UNIVERSAL SERIAL BUS &
IEEE 1394 FIREWIRE
USB & FWC SERIES

ORDERING INFORMATION

SERIES INDICATOR
USB = Universal Serial Bus
MUSB = Mini USB
MCR = Micro USB
FWC = IEEE 1394, Firewire
MFW = Mini IEEE 1394, Firewire

TYPE
A = USB Type “A”
A3 = USB 3.0 Type “A”
B = USB Type “B”
B3 = USB 3.0 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
AB1 = USB Type AB (Mini Top Mount)

MOUNTING ANGLE
RA = Right Angle
RU = Right Angle Upright
VT = Vertical Mount
S = Wire Termination (Plug Only)

PORTS
S = Single port
D = Dual port
T = Triple port
Q = Quad port

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

www.adam-tech.com
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
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

Recommended PCB Layout

www.adam-tech.com
MINI IEEE 1394, RIGHT ANGLE, SMT

MINI IEEE 1394, RIGHT ANGLE, SMT

MINI IEEE 1394, RIGHT ANGLE, SMT

MINI IEEE 1394, PLUG

RECOMMENDED PCB LAYOUT (BILINGUAL)

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