USB, MINI USB, MICRO USB
FIREFIRE & MINI FIREWIRE

UNIVERSAL SERIAL BUS &
IEEE 1394 FIREWIRE
USB & FWC SERIES

ORDERING INFORMATION

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

www.adam-tech.com
USB 2.0 CONNECTOR
TYPE A SINGLE PORT
USB SERIES

USB-A-S-RU

Recommended PCB Layout

USB 2.0, TYPE A
ANGLE UPRIGHT, THRU-HOLE

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

USB 2.0, TYPE A PLUG
RIGHT ANGLE, SMT

Recommended PCB Layout

Recommended PCB Layout

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