ADAM TECH

Adam Technologies, Inc.

USB, MINI USB, FIREWIRE & **MINI 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 mΩ 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:

7.L° (SP

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





USB & FWC SERIES



ORDERING INFORMATION

USB	Α	Ş	5		RA		
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				IOUNT	I ING AN	GLE	
SERIES INDICATOR		RA = Right Angle					
USB = Universal Serial Bus			RU = Right Angle				
MUSB = Mini USB					right		
FWC = IEEE 1394,			-		rtical Mo re Termi		
Firewire					ug Only		
MFW = Mini IEEE				,	5,	,	
1394, Firewire MCR = Micro USB							
				3 = Sing 0 = Dua			
				J = Dua I = Tripl			
TYP		Q=Quad port					
A = USB Type "A"							
B = 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							
$30 = 30 \mu in \text{ gold plating in contact area}$							
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

.275 [7.0]

1

ø.037

[0.95]

.107 [2.71]

ø.090

USB-A-S-VT

.08 [2.0]

1

.275

[7.0]

1

.037

ø.090

[2.3]

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.517

[13.14] 🛏

Recommended PCB Layout (Bottom View)

[0.95]

[2.3]

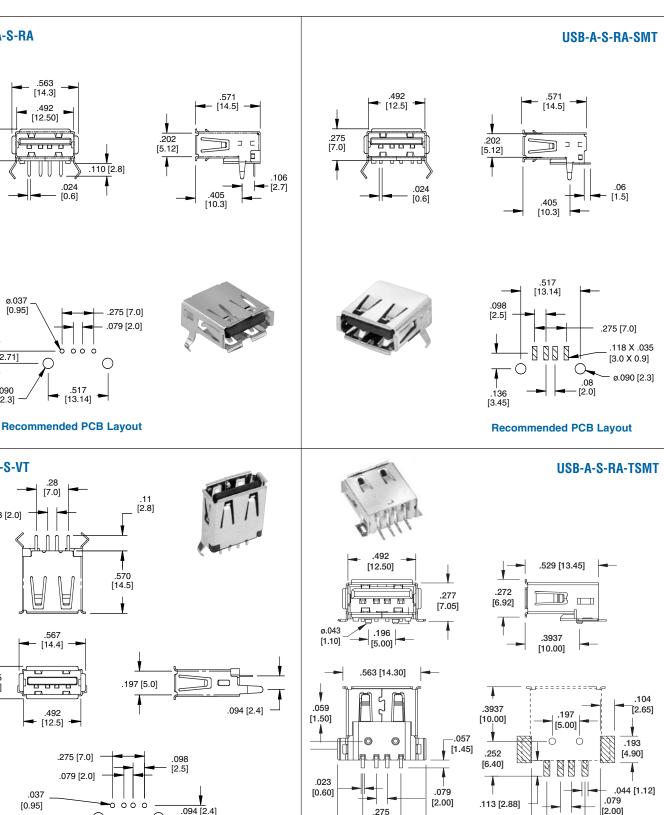
USB CONNECTOR TYPE A SINGLE PORT USB SERIES

.275

[7.00]

.496 [12.60]

Recommended PCB Layout

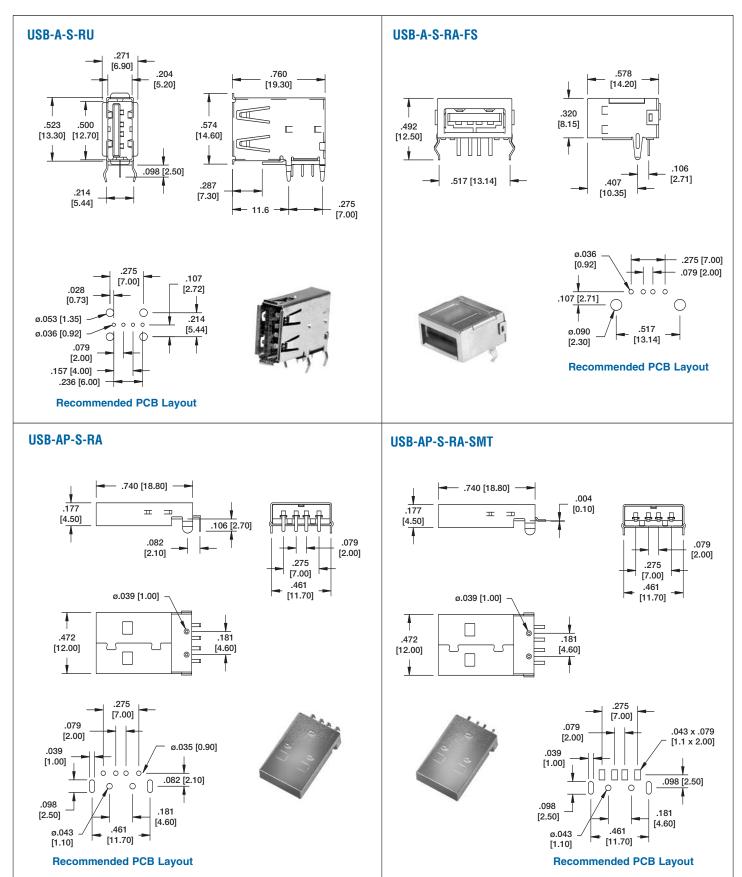


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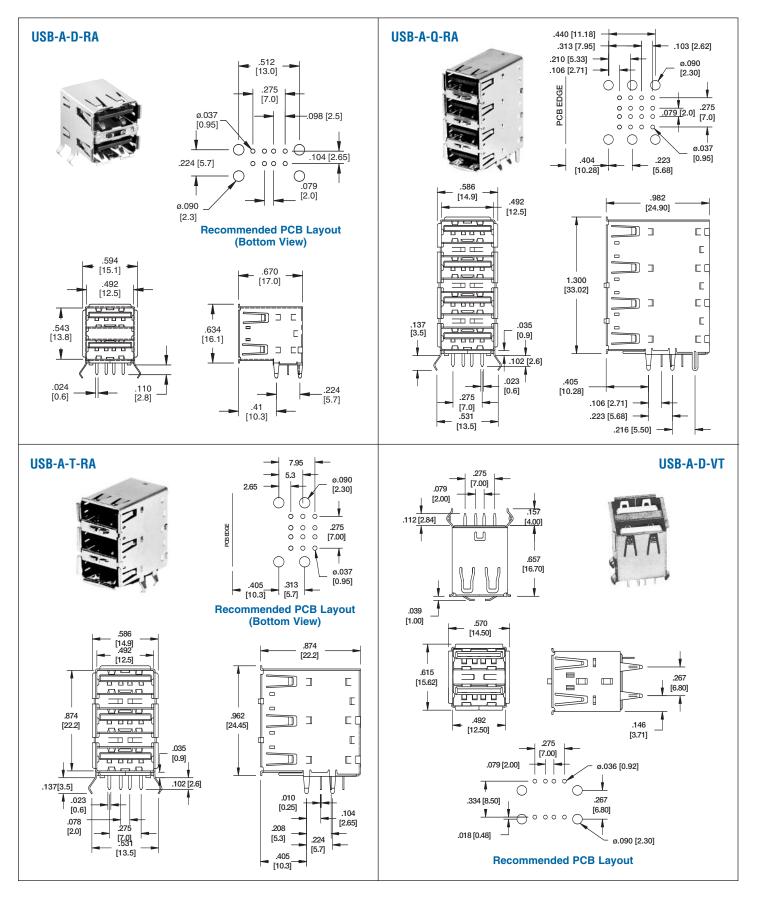
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USB CONNECTOR TYPE A SINGLE PORT

USB SERIES

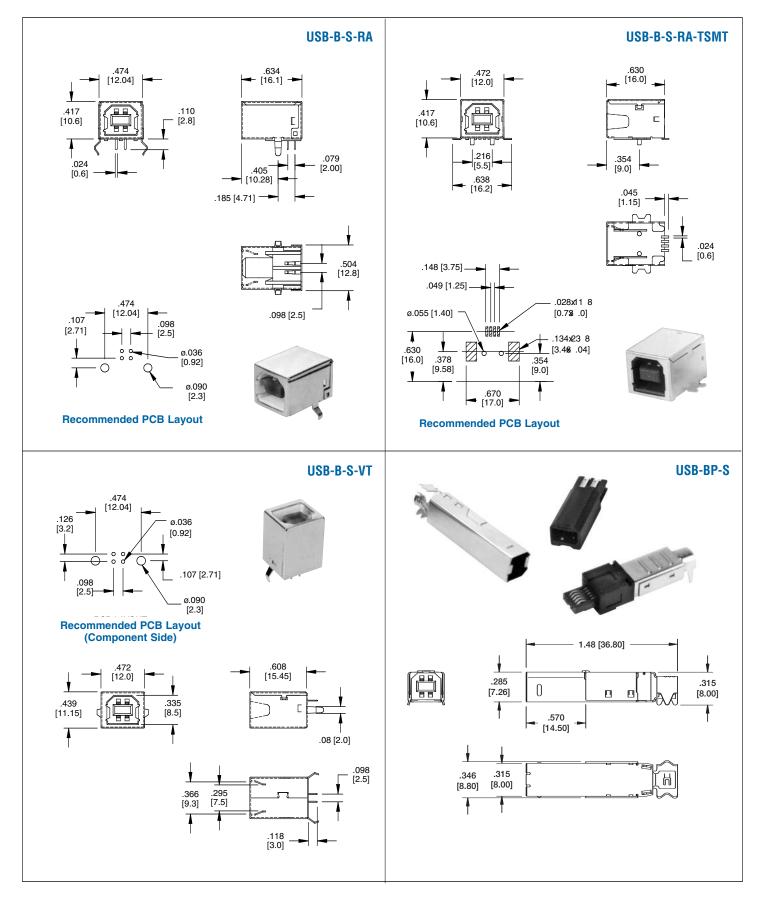


USB CONNECTOR TYPE A STACKED PORTS USB SERIES

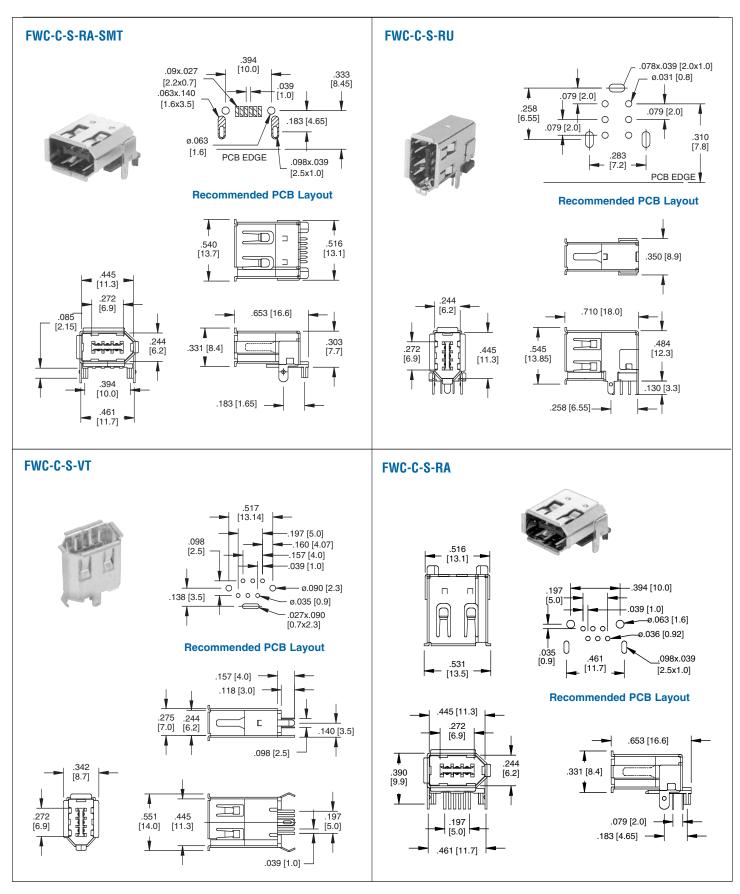


USB CONNECTOR TYPE B SINGLE PORT & TYPE B PLUG USB SERIES

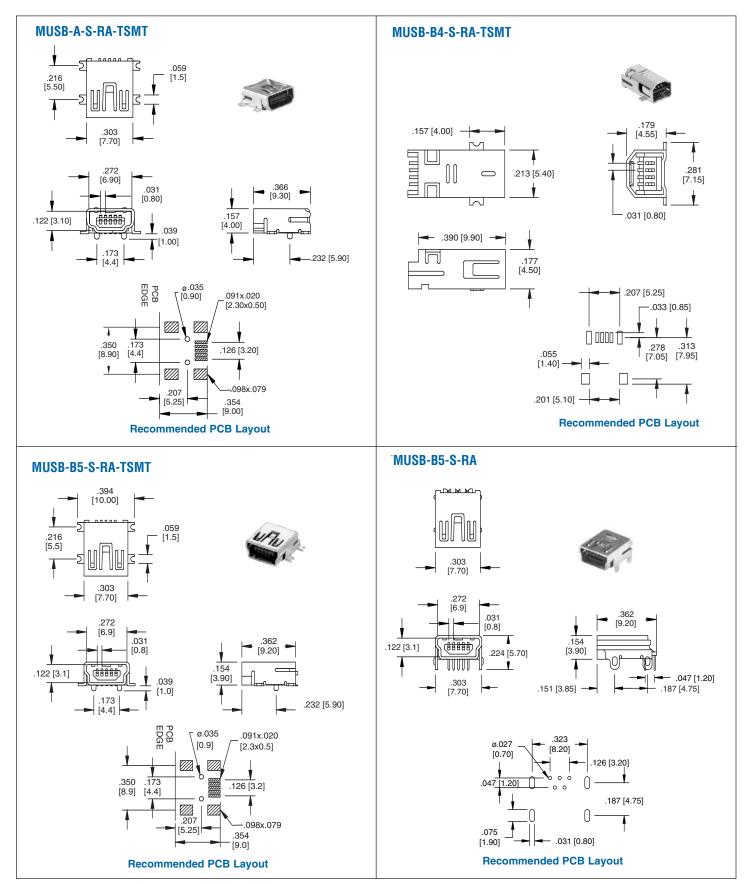




IEEE 1394 FIREWIRE SINGLE PORT, THRU-HOLE & SMT FWC SERIES

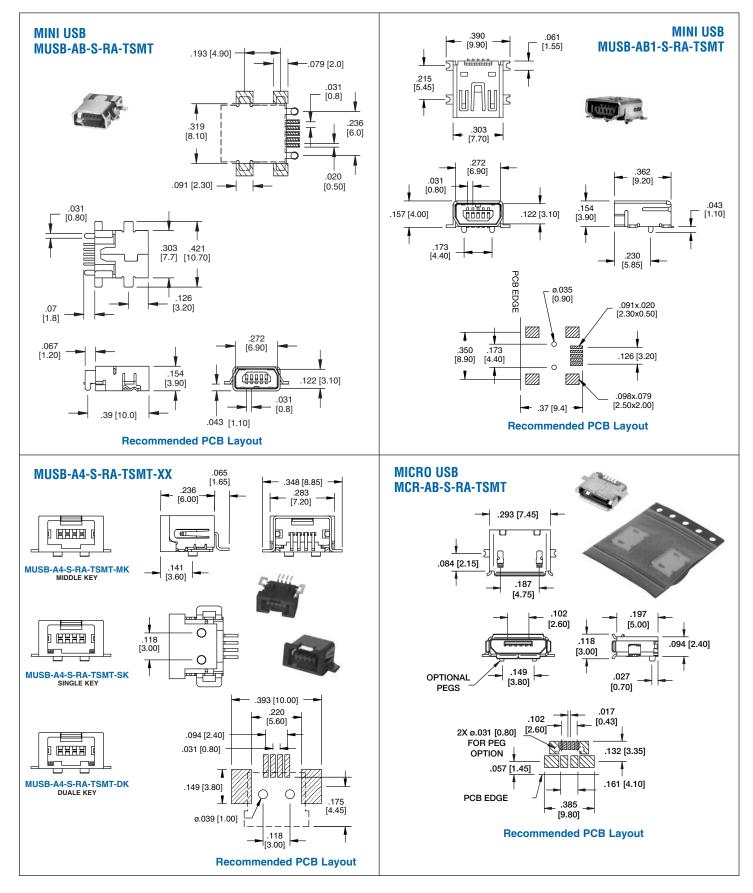


MINI USB TYPE A, B4 & B5 MUSB SERIES



MINI & MICRO USB TYPE AB, AB1 & A4

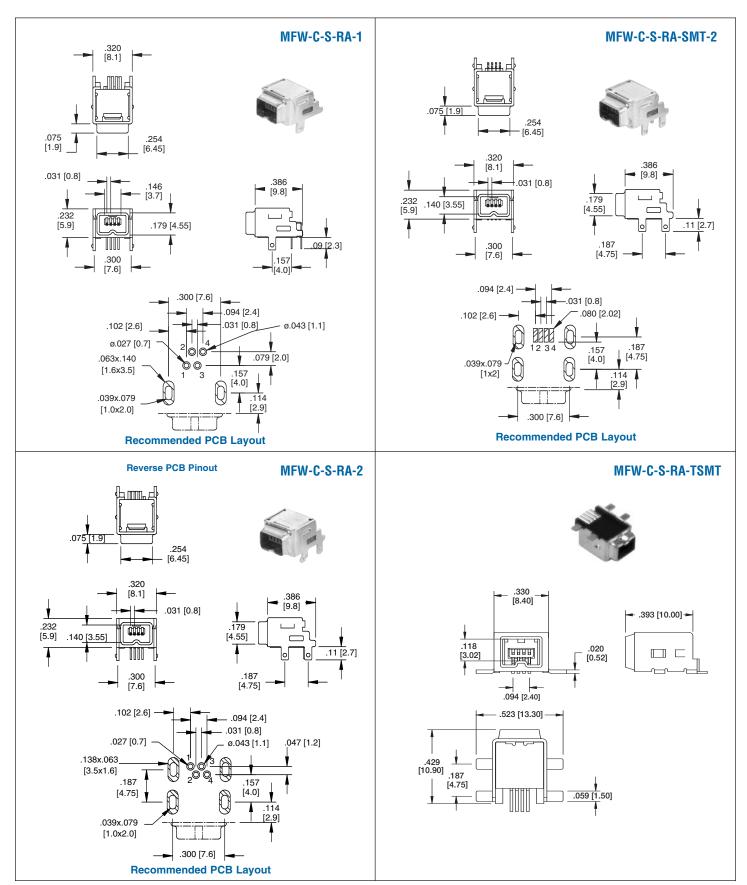
MUSB SERIES





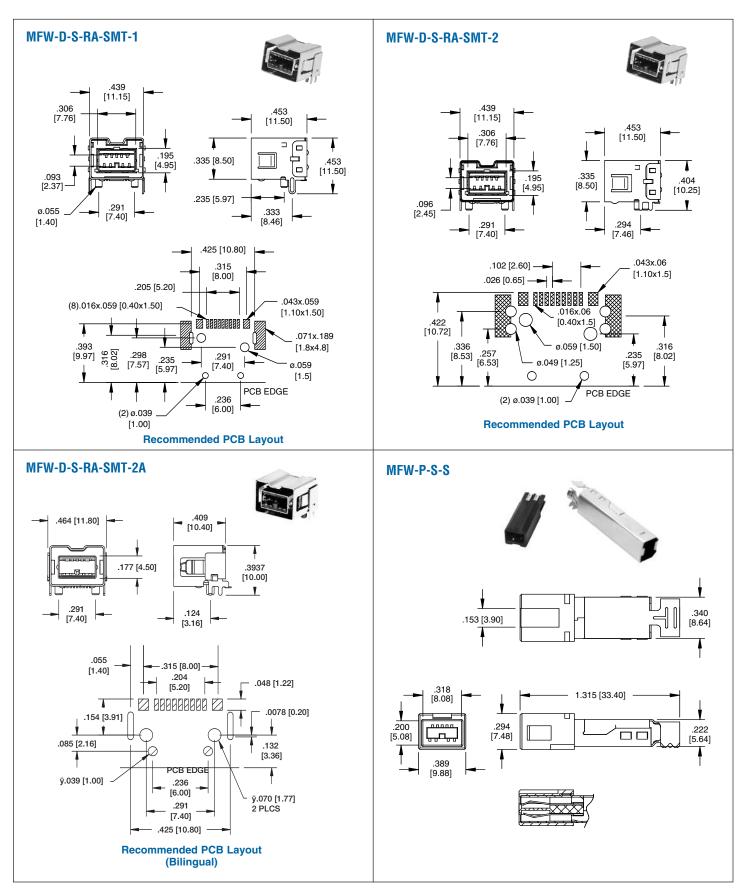
MINI FIREWIRE THRU-HOLE & SURFACE MOUNT

MFW SERIES



MINI FIREWIRE THRU-HOLE & SURFACE MOUNT

MFW SERIES





USB POWER & SIGNAL W/LEDs SIGNAL USB & POWER USB COMBINATION WITH LEDs

USBP-A-XXV-RA

