

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 and 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:

Insulator: PBT, Glass filled, rated UL94V-0
or Hi-Temp 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: 250V AC
Current Rating: 1 Amps max.
Contact Resistance: 30 mΩ max.
Insulation Resistance: 100 MΩ min.
Dielectric Withstanding Voltage: 250V AC for 1 minute

Mechanical:

Insertion force: 3 oz max.
Withdrawal force: 0.5 oz min.

Temperature Ratings:

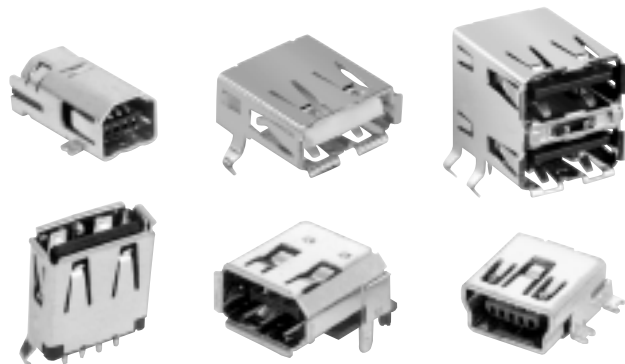
Operating Temperature: PBT: -40°C ~ +85°C
Nylon PA9T: -55°C ~ +105°C

PACKAGING:

Anti-ESD plastic trays or tubes

APPROVALS AND CERTIFICATIONS:

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



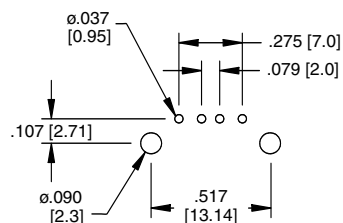
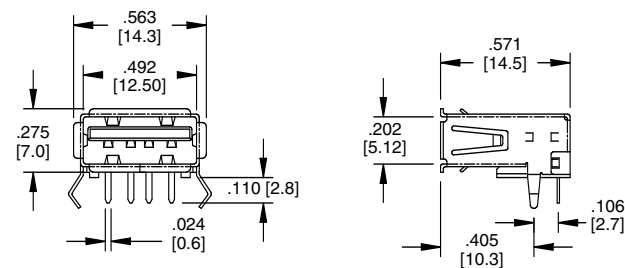
ORDERING INFORMATION

USB	A	S	RA
SERIES INDICATOR USB = Universal Serial Bus MUSB = Mini USB FWC = IEEE 1394, Firewire MFW = Mini IEEE 1394, Firewire		MOUNTING ANGLE RA = Right Angle, RU = Right Angle, Upright VT = Vertical Mount S = Wire Termination (Plug Only)	
		PORTS S = Single port D = Dual port	
TYPE A = Type "A" B = Type "B" AB = Type "AB" (Mini) B4 = Type "B" (Mini) 4 pin B5 = Type "B" (Mini) 5 pin C = Firewire (IEEE 1394) D = Firewire (IEEE 1394B) Bilingual Type P = Firewire Plug (IEEE 1394)			

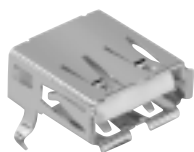
OPTIONS:

Add as Suffix to basic part no.
SMT = Surface Mount Leads with Hi-Temp insulator
30 = 30 μin gold plating in contact area
WT = White color insulator
RC = RoHS compliant lead-free product with Hi-Temp insulator

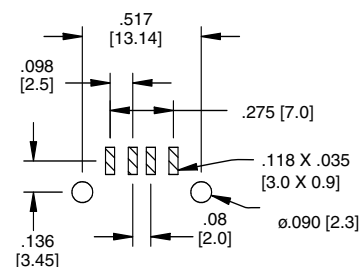
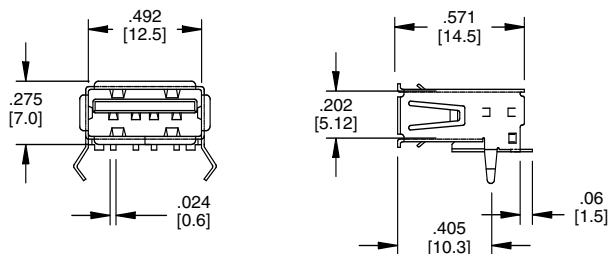
USB-A-S-RA



Recommended PCB Layout



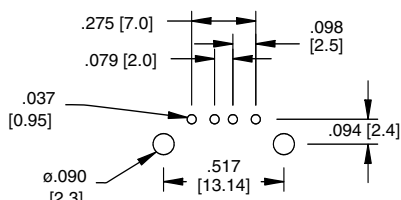
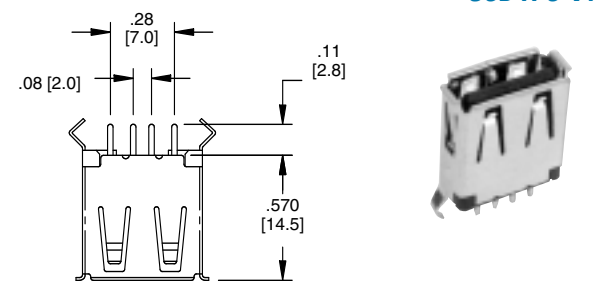
USB-A-S-RA-SMT



Recommended PCB Layout



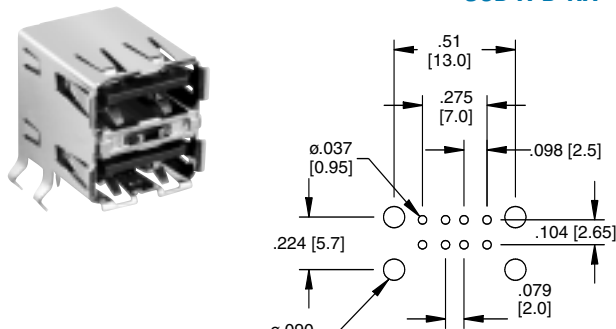
USB-A-S-VT



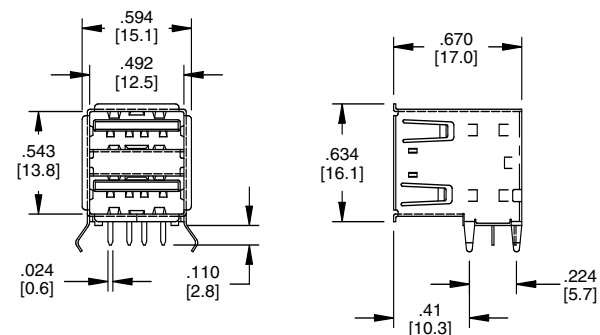
Recommended PCB Layout
(Bottom View)



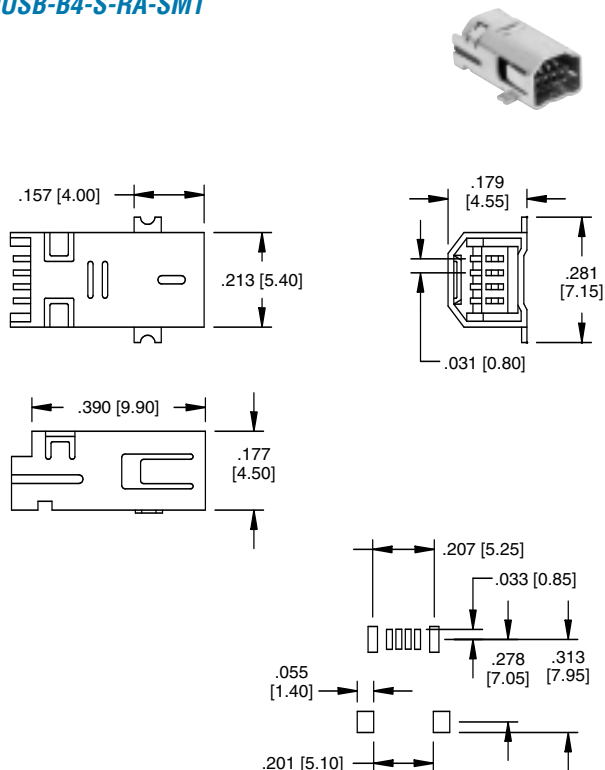
USB-A-D-RA



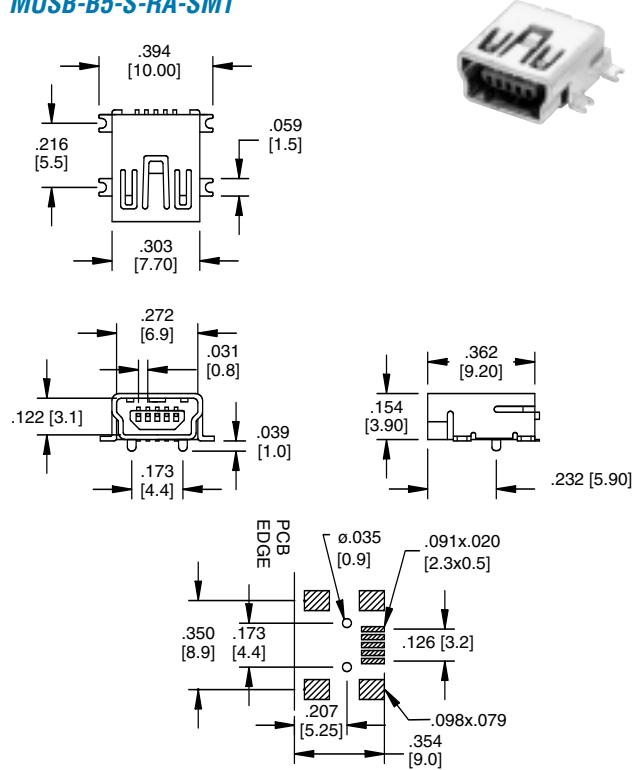
Recommended PCB Layout
(Bottom View)



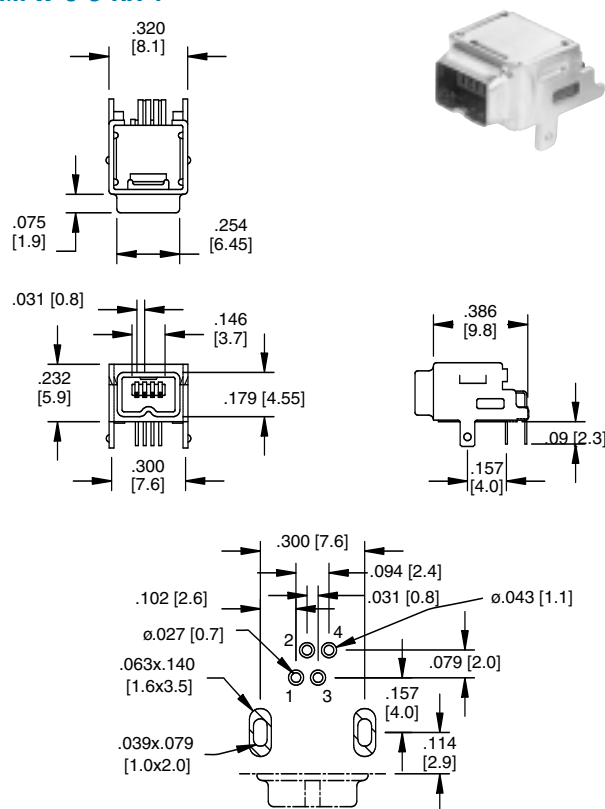
MUSB-B4-S-RA-SMT



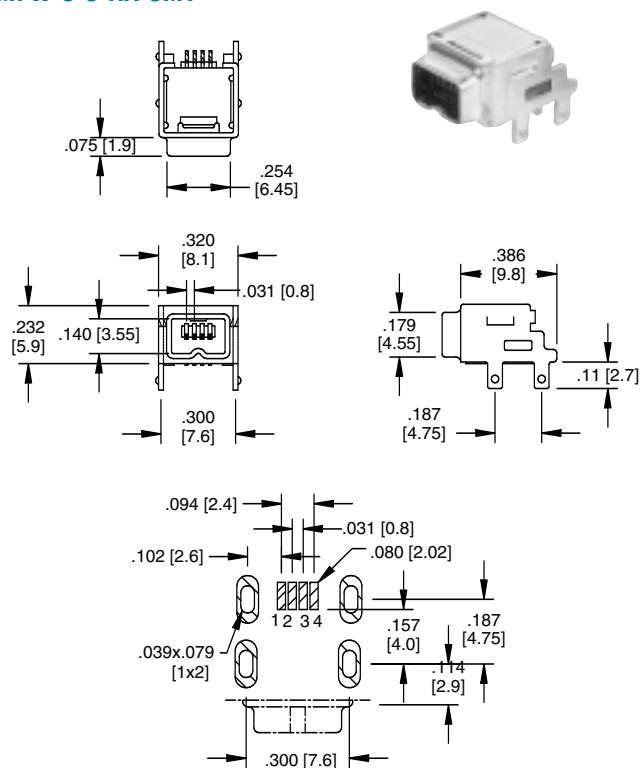
MUSB-B5-S-RA-SMT



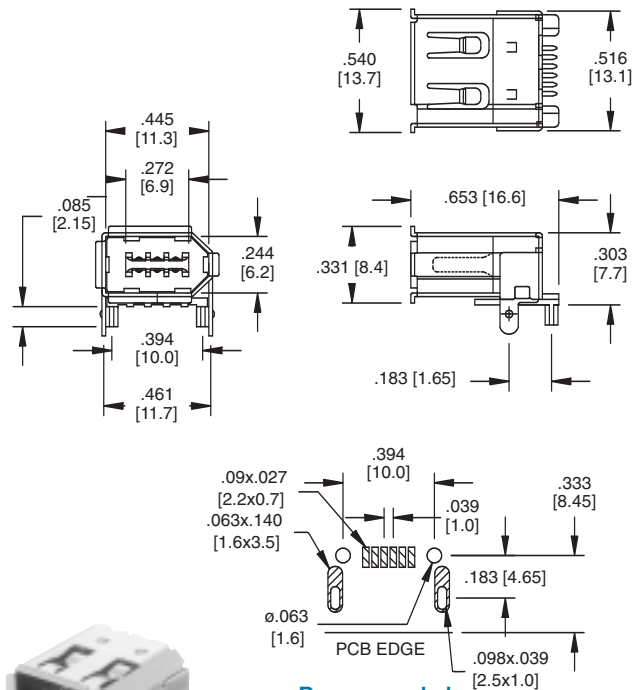
MFW-C-S-RA-1



MFW-C-S-RA-SMT



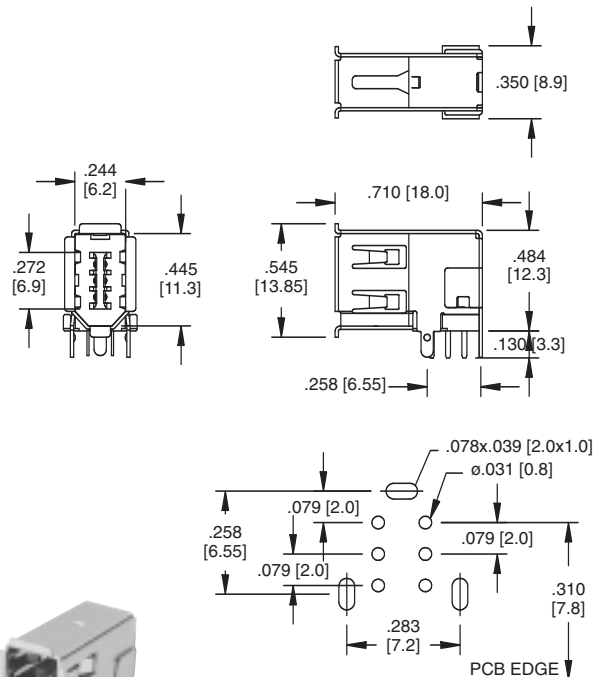
FWC-C-S-RA-SMT



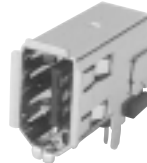
**Recommended
PCB Layout**



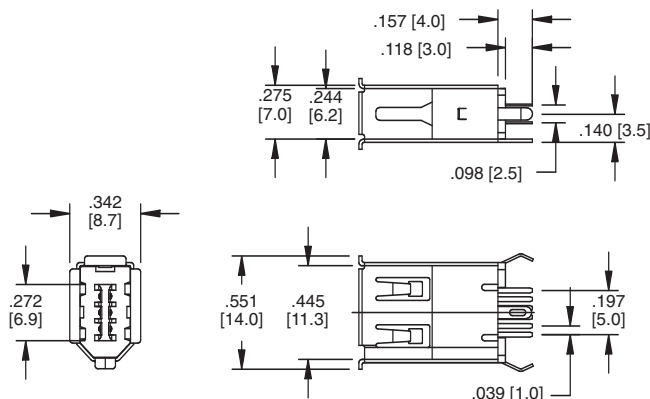
FWC-C-S-RU



**Recommended
PCB Layout**



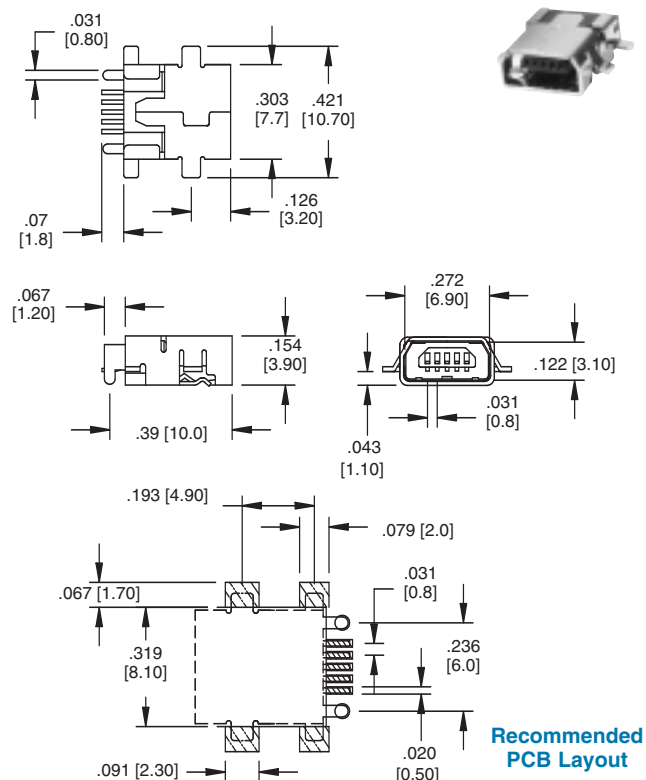
FWC-C-S-VT



**Recommended
PCB Layout**



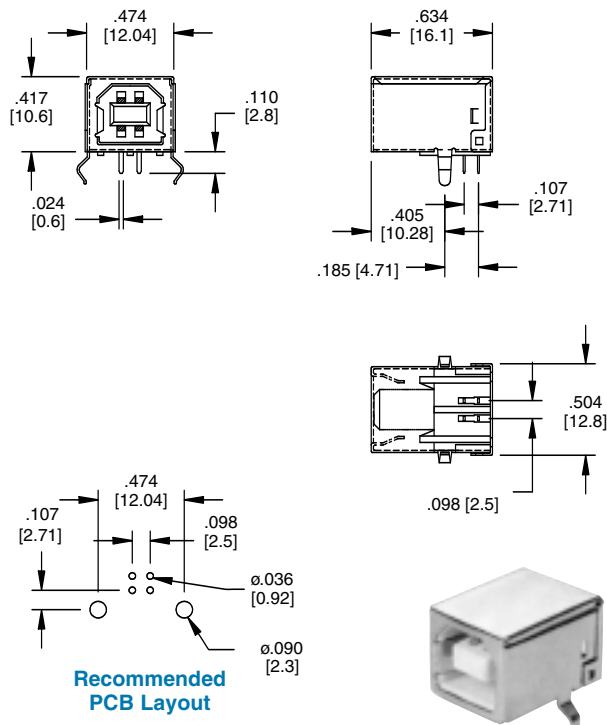
MUSB-D-S-RA-SMT



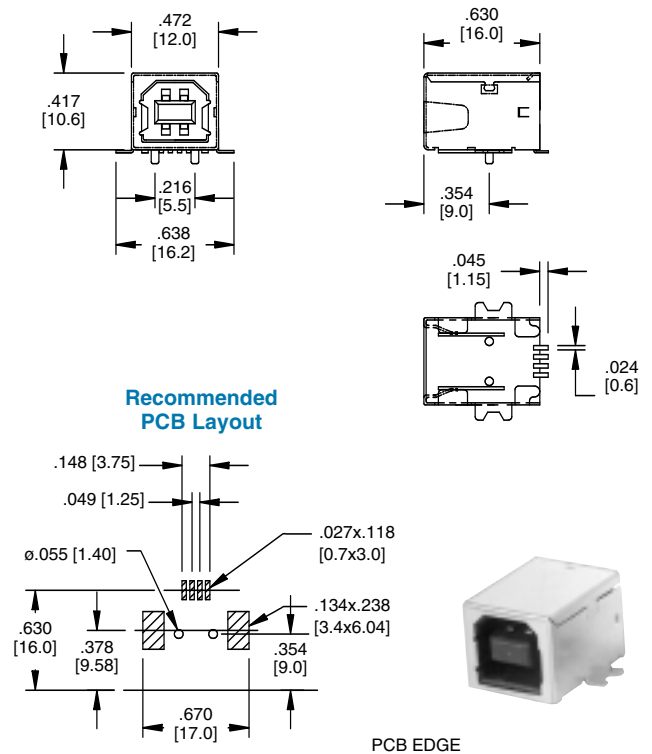
**Recommended
PCB Layout**



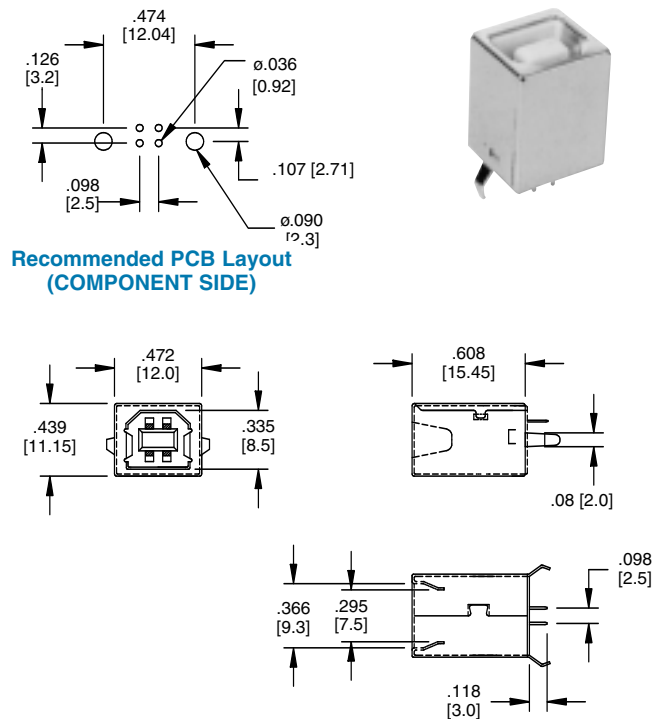
USB-B-S-RA



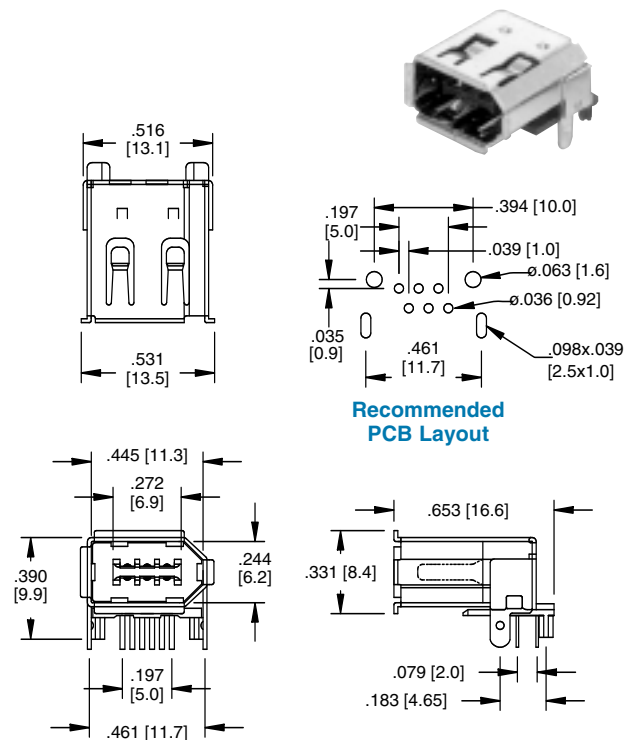
USB-B-S-RA-SMT



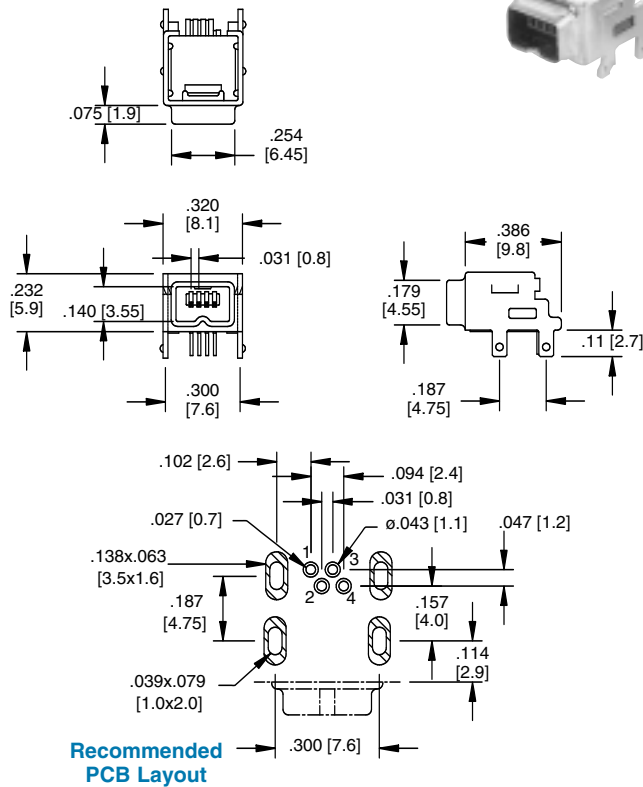
USB-B-S-VT



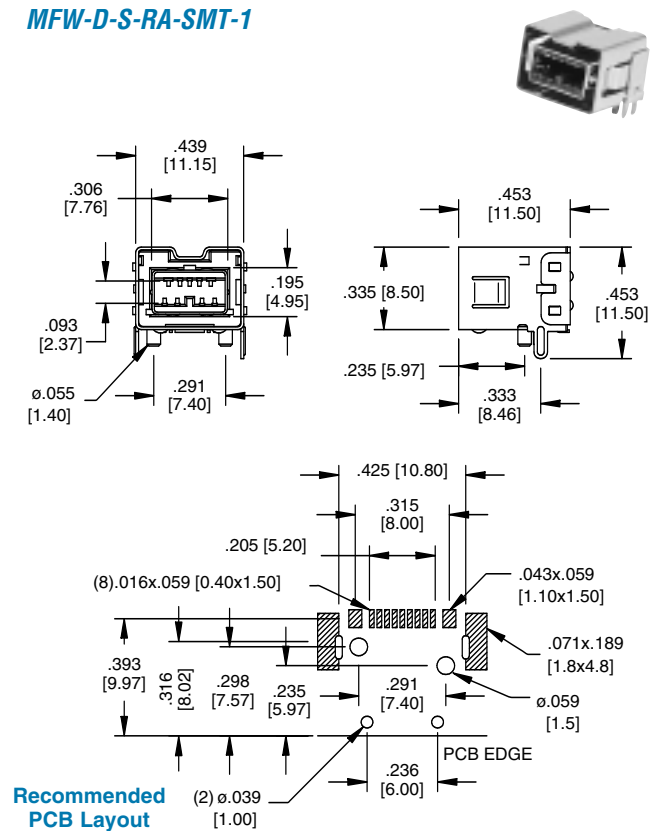
FWC-C-S-RA



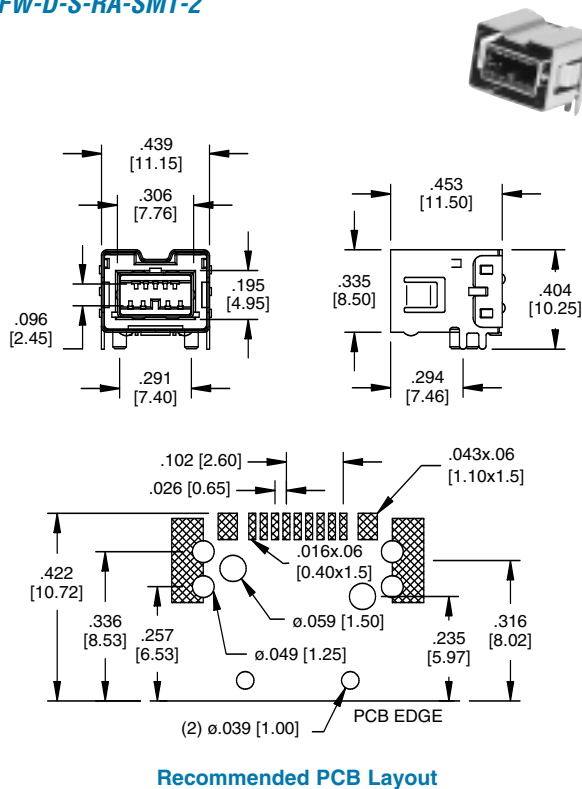
MFW-C-S-RA-2 Reverse PCB Pinout



MFW-D-S-RA-SMT-1



MFW-D-S-RA-SMT-2



MFW-P-S-S

