



USB-A-D-S-B-TH

USBR-A-S-F-O-TH



USB-AM-S-F-W-TH



USB-A-S-F-B-VU

USB-A, USBR-A, USB-AM SERIES

# STANDARD & RUGGED USB 2.0

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?USB-A](http://www.samtec.com?USB-A) or [www.samtec.com?USBR-A](http://www.samtec.com?USBR-A)

**Insulator Material:**

High Temperature Thermoplastic



**Contact Material:**

Phosphor Bronze

**Shell Material:** Copper Alloy

**Plating:** Gold on Contacts, Nickel on Shell, Tin on Tails

**Operating Temp Range:**

-50°C to +85°C

**Current Rating:**

1 A per contact

**Voltage Rating:** 30 VAC

**Contact Resistance:**

30 mΩ max

**Cycles:**

1500 (maximum number of cycles tested)

**Packaging:**

Packaged and shipped in Bulk Packaging Trays; Trays suitable for automation are available upon request.

**RoHS Compliant:** Yes

**Lead-Free Solderable:**

-SM1=Yes

-TH, -VU & -VT=Yes (Wave Solder only)

**TID Numbers:**

USB-A-D-X-X-TH (60001199)

USB-A-S-X-X-TH (60001180)

USB-A-S-X-X-SM1 (60001152)

USB-A-S-X-X-VT (60001153)

TYPE

A

SHELL TYPE

PLATING

COLOR

TERMINATION

**USB**  
= Standard Connector

**USBR**  
= Increased Retention Connector (Complies with Class 1, DIV II minimum withdrawal requirement of 15N.)

**-S**  
= Single

**-D**  
= Double (-TH option only)

**-F**  
= Gold Flash on Mating Area, Tin on Tails

**-S**  
= 30μ" (0,76μm) Gold on Mating Area, Tin on Tails

**-B**  
= Black

**-W**  
= White

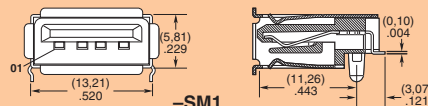
**-O**  
= Orange (USBR only)

**-TH**  
= Through-hole

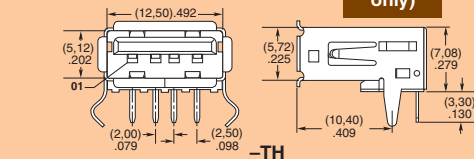
**-SM1**  
= Offset Surface Mount

**-VU**  
= Upright, Through-Hole

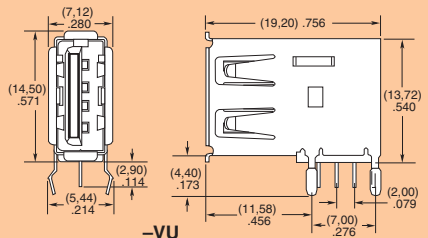
**-VT**  
= Vertical, Through-Hole (USB only)



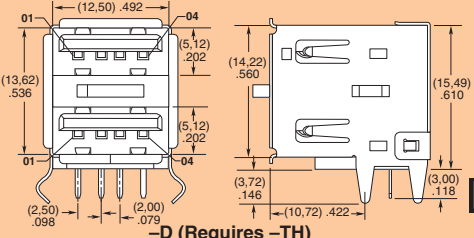
-SM1



-TH



-VU



-D (Requires -TH)



High retention option

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?USB-AM](http://www.samtec.com?USB-AM)

**Insulator Material:**

High Temperature Thermoplastic



**Contact Material:**

Phosphor Bronze

**Shell Material:** Copper Alloy

**Plating:** Gold on Contacts, Nickel on Shell, Tin on Tails

**Operating Temp Range:**

-50°C to +85°C

**Current Rating:** 1 A per contact

**Voltage Rating:** 30 VAC

**Contact Resistance:** 30 mΩ max

**Cycles:** 1500 (maximum number of cycles tested)

**Packaging:**

Packaged and shipped in Bulk Packaging Trays; Trays suitable for automation are available upon request.

**RoHS Compliant:** Yes

**Lead-Free Solderable:**

-SM1=Yes

-TH=Yes (Wave Solder only)

**TID Number:**

USB-AM-S-X-X-SM (60001154)

USB

TYPE

SHELL TYPE

PLATING

COLOR

TERMINATION

**-AM**  
= A Type (Plug)

**-S**  
= Single

**-F**  
= Gold Flash on Mating Area, Tin on Tails

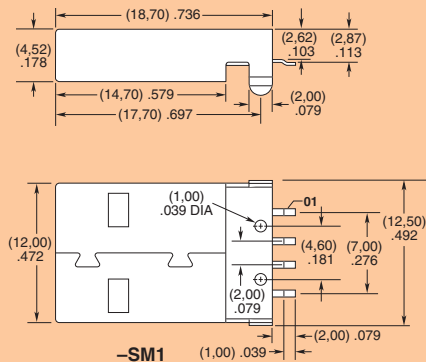
**-S**  
= 30μ" (0,76μm) Gold on Mating Area, Tin on Tails

**-B**  
= Black

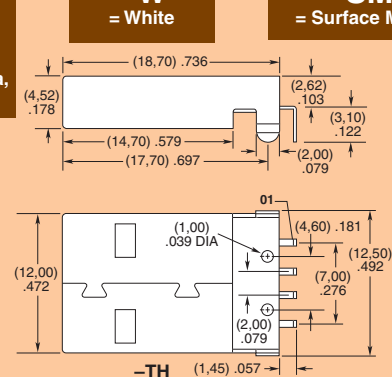
**-W**  
= White

**-TH**  
= Through-hole

**-SM1**  
= Surface Mount



-SM1



-TH

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM