

USB-A-D-S-B-TH

USB-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), [www.samtec.com?USBR-A](http://www.samtec.com?USBR-A) or [www.samtec.com?USB-AM](http://www.samtec.com?USB-AM)

**Insulator Material:**

High Temperature Thermoplastic

**Contact Material:**

Phosphor Bronze

**Plating:**

Gold on Contacts,

Nickel on Shell, Tin on Tails

**Operating Temp Range:**

-50 °C to +85 °C

**Voltage Rating:**

30 VAC

**Cycles:**

1500 (max tested)

**Packaging:**

Packaged and shipped in Bulk Packaging Trays; Trays suitable for automation available

**RoHS Compliant:**

Yes

**Lead-Free Solderable**

-TH & -VU=Yes

(Wave Solder only)

**TID Numbers (USB-A):**

USB-A-D-X-X-TH (61001199)

USB-A-S-X-X-TH (61001180)

USB-A-S-X-X-SM2 (61001152)

**TID Number (USB-AM):**

USB-AM-S-X-X-SM (61001154)

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)


**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**  
= 30 μ" (0.76 μm) Gold on Mating Area, Tin on Tails

**-B**  
= Black (USB only)

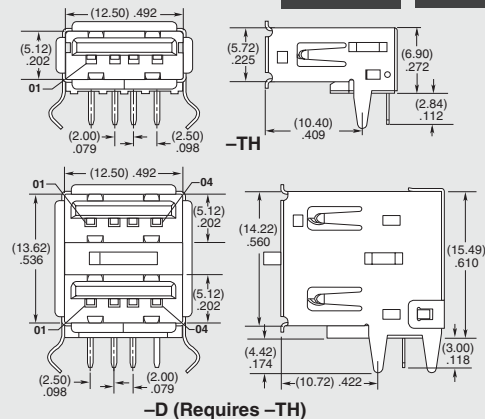
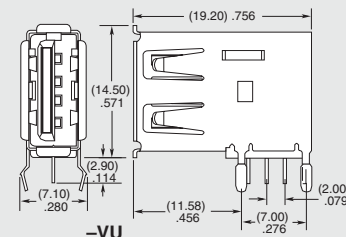
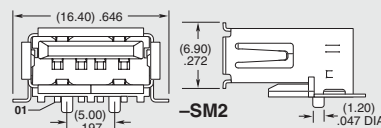
**-W**  
= White (USB only)

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

**-TH**  
= Through-hole

**-SM2**  
= Surface Mount (USB only)

**-VU**  
= Upright, Through-hole


**USB**
**TYPE**
**SHELL TYPE**
**PLATING**
**COLOR**
**TERMINATION**

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

**-S**  
= Single

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

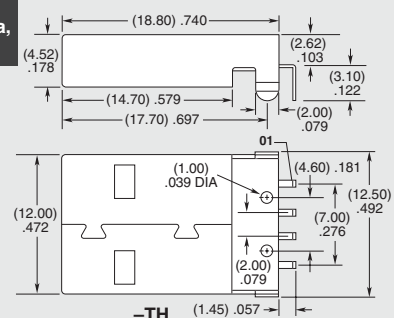
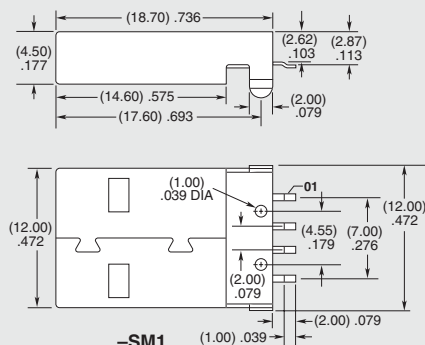
**-S**  
= 30 μ" (0.76 μm) Gold on Mating Area, Tin on Tails

**-B**  
= Black

**-W**  
= White

**-TH**  
= Through-hole

**-SM1**  
= Surface Mount



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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

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