

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, USB-R, 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?USB-R](http://www.samtec.com?USB-R)

#### 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

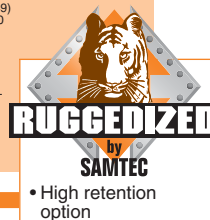
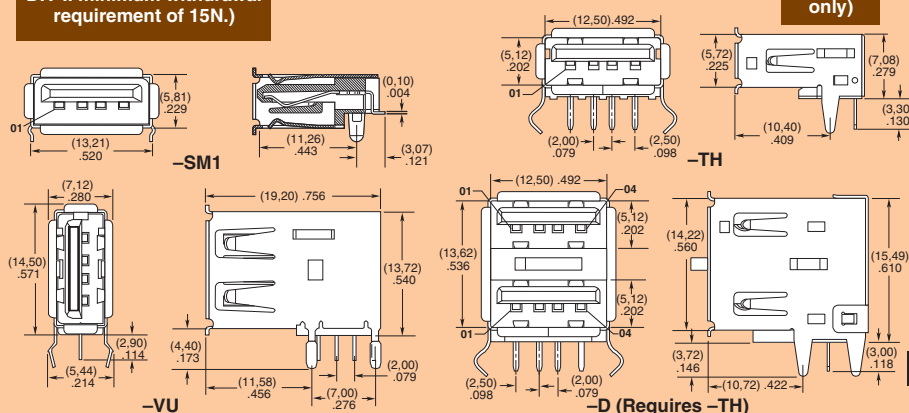
**-O**  
= Orange (USBR only)

**-TH**  
= Through-hole

**-SM1**  
= Offset Surface Mount

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

**-VT**  
= Vertical, Through-Hole



### 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

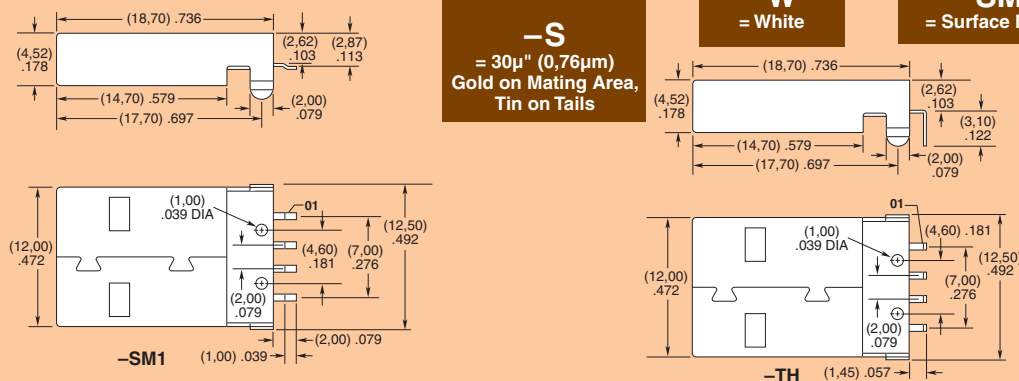
**-S**  
= 30μ" (0,76μm) Gold on Mating Area, Tin on Tails

**-B**  
= Black

**-W**  
= White

**-TH**  
= Through-hole

**-SM1**  
= Surface Mount



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

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