



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 INTERFACES

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

### 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=Yes (Wave Solder only)



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.) (-TH and -SM1 only)

**-S**  
= Single

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

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

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

**-B**  
= Black

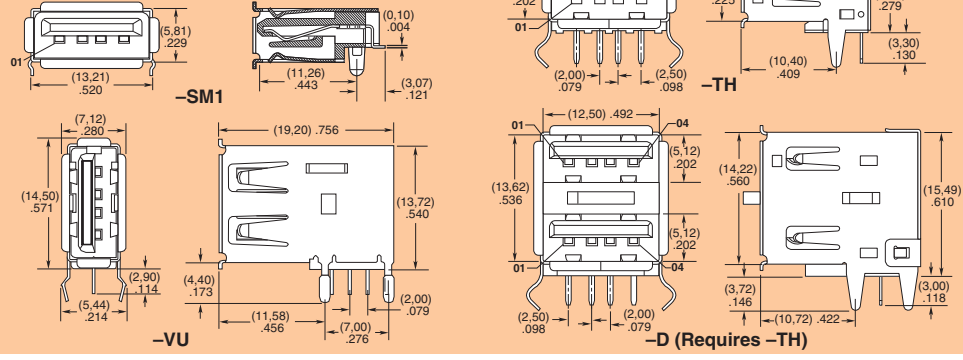
**-W**  
= White

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

**-TH**  
= Through-hole

**-SM1**  
= Offset Surface Mount

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



### 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)



USB	TYPE	SHELL TYPE	PLATING	COLOR	TERMINATION
-----	------	------------	---------	-------	-------------

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

**-S**  
= Single

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

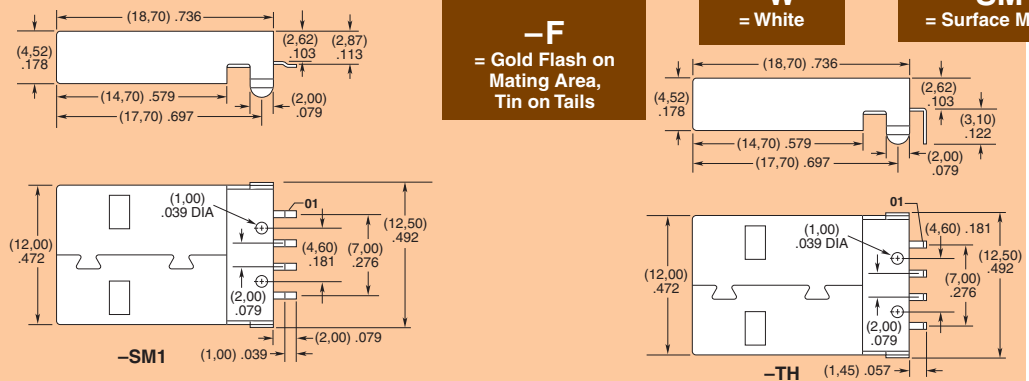
**-F**  
= Gold Flash on Mating Area, Tin on Tails

**-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)