



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 INTERFACES

**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
<b>USB</b> = Standard Connector		<b>-S</b> = Single <b>-D</b> = Double (-TH option only)	<b>-S</b> = 30µ" (0,76 µm) Gold on Mating Area, Tin on Tails <b>-F</b> = Gold Flash on Mating Area, Tin on Tails	<b>-B</b> = Black <b>-W</b> = White <b>-O</b> = Orange (USBR only)	<b>-TH</b> = Through-hole <b>-SM1</b> = Offset Surface Mount <b>-VU</b> = 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
	<b>-AM</b> = A Type (Plug)	<b>-S</b> = Single	<b>-S</b> = 30µ" (0,76 µm) Gold on Mating Area, Tin on Tails <b>-F</b> = Gold Flash on Mating Area, Tin on Tails	<b>-B</b> = Black <b>-W</b> = White	<b>-TH</b> = Through-hole <b>-SM1</b> = Surface Mount

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

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