



USB-A-D-S-B-TH

USBR-A-S-F-O-TH



USBR-A-S-F-B-VU

USB-AM-S-F-W-TH



**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
<p><b>USB</b> = Standard Connector</p> <p><b>USBR</b> = Increased Retention Connector (Complies with Class 1, DIV II minimum withdrawal requirement of 15N.)</p>		<p><b>-S</b> = Single</p> <p><b>-D</b> = Double (-TH option only)</p>	<p><b>-F</b> = Gold Flash on Mating Area, Tin on Tails</p> <p><b>-S</b> = 30 μ" (0.76 μm) Gold on Mating Area, Tin on Tails</p>	<p><b>-B</b> = Black (USB only)</p> <p><b>-W</b> = White (USB only)</p> <p><b>-O</b> = Orange (USBR only)</p>	<p><b>-TH</b> = Through-hole</p> <p><b>-SM2</b> = Surface Mount (USB only)</p> <p><b>-VU</b> = Upright, Through-hole</p>

USB	TYPE	SHELL TYPE	PLATING	COLOR	TERMINATION
	<p><b>-AM</b> = A Type (Plug)</p>	<p><b>-S</b> = Single</p>	<p><b>-F</b> = Gold Flash on Mating Area, Tin on Tails</p> <p><b>-S</b> = 30 μ" (0.76 μm) Gold on Mating Area, Tin on Tails</p>	<p><b>-B</b> = Black</p> <p><b>-W</b> = White</p>	<p><b>-TH</b> = Through-hole</p> <p><b>-SM1</b> = Surface Mount</p>

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.