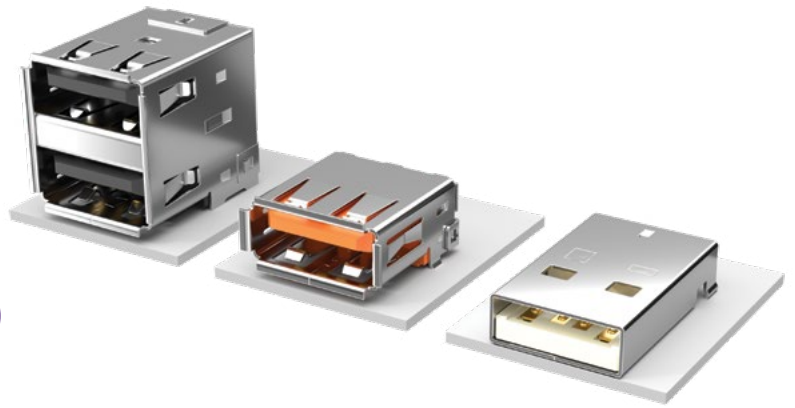


# STANDARD & RUGGED USB 2.0

## USB-A/USBR-A/USB-AM SERIES



### SPECIFICATIONS

**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

**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)

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

<p>(16.40) .646 (6.90) .272</p> <p><b>-SM2</b></p>	<p>(12.50) .492 (5.12) .202 (5.72) .225 (6.90) .272</p> <p><b>-TH</b></p>
<p>(19.20) .756 (14.50) .571 (7.10) .280</p> <p><b>-VU</b></p>	<p>(12.50) .492 (13.62) .536 (5.12) .202 (5.12) .202 (14.40) .567 (15.49) .610</p> <p><b>-D (Requires -TH)</b></p>

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

<p>(18.70) .736 (4.50) .177 (14.60) .575</p> <p><b>-SM1</b></p>	<p>(18.80) .740 (4.52) .178 (14.70) .579</p> <p><b>-TH</b></p>
<p>(12.00) .472 (12.00) .472</p>	<p>(12.00) .472 (12.50) .492</p>