

USBR-B-S-F-O-TH



USB-B-S-S-B-SM



## USB-B, USBR-B SERIES

# STANDARD & RUGGED USB 2.0

### SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?USB-B](http://www.samtec.com?USB-B) or [www.samtec.com?USBR-B](http://www.samtec.com?USBR-B)

#### Insulator Material:

High Temperature Thermoplastic

#### Contact Material:

Phosphor Bronze

#### Shell Material:

Brass

#### Plating:

Gold on Contacts,

Nickel on Shell, Tin on Tails

#### Operating Temp Range:

-50°C to +85°C

#### Current Rating:

1A 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:

USB-SM=Yes

USB-TH=Yes

(Wave Solder only)

USBR=Yes (Wave Solder only)

#### TID Number:

USB-B-S-X-X-TH (60001155)



Minimum 15N  
withdrawal force

Increased  
retention option

Through-hole  
option

TYPE	B	S	PLATING	COLOR	TERMINATION	OTHER OPTION
USB			-F	-B	-TH	-TR
USBR			-S	-W	-SM	
				-O	-VT	

**USB**  
= Standard Connector

**USBR**  
= Increased Retention Connector (Complies with Class 1, DIV II minimum withdrawal requirement of 15N.)

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

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

**-B**  
= Black (USB only)

**-W**  
= White (USB only)

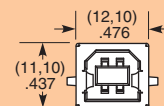
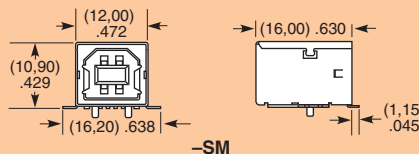
**-O**  
= Orange (USBR only)

**-TH**  
= Through-hole

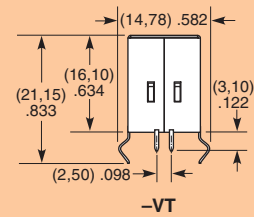
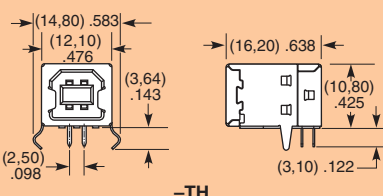
**-SM**  
= Surface Mount

**-VT**  
= Vertical Top Entry (USBR Series only)

**-TR**  
= Tape and Reel Packaging (-SM only)



MATING / UNMATING FORCE (100 CYCLES)		
SERIES	MATING	UNMATING
USB	5.3 (23,59N)	6.1 (27,15N)
USBR	11.8 (52,51N)	11.5 (51,18N)



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

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