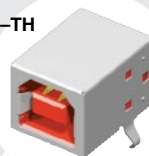


USBR-B-S-F-O-TH



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

### Plating:

Gold on Contacts,  
Nickel on Shell, Tin on Tails

### Operating Temp Range:

-50 °C to +85 °C

### Voltage Rating:

30 VAC

### 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 (61001155)

RUGGEDIZED

BY SAMTEC

- High retention option

Minimum 15N  
withdrawal force

Increased  
retention option

Through-hole  
option

## RECOGNITIONS

For complete scope  
of recognitions see  
[www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594  
(USB only)  
FILE NO. E225096  
(USBR only)

TYPE

B

S

PLATING

COLOR

TERMINATION

OTHER  
OPTION

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

= 30  $\mu$ m (0.76  $\mu$ m) Gold on  
Mating Area, Tin on Tails

-B

= Black  
(USB only)

-W

= White  
(USB only)

-O

= Orange  
(USBR only)

-TH

= Through-hole

-SM

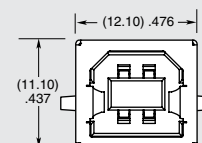
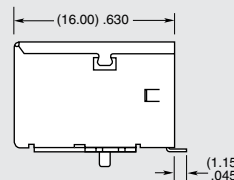
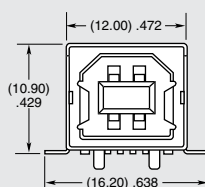
= Surface Mount  
(USB only)

-VT

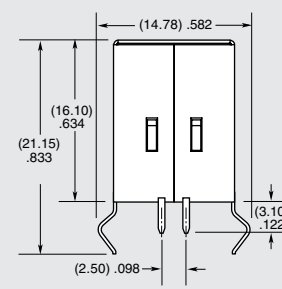
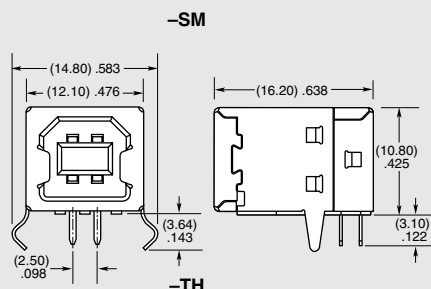
= Vertical Top Entry

-TR

= Tape  
and Reel  
Packaging  
(-SM only)



| MATING / UNMATING FORCE<br>(100 CYCLES) |                   |                   |
|-----------------------------------------|-------------------|-------------------|
| SERIES                                  | MATING            | UNMATING          |
| USB                                     | 5.3<br>(23.59 N)  | 6.1<br>(27.15 N)  |
| USBR                                    | 11.8<br>(52.51 N) | 11.5<br>(51.18 N) |



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.