

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

### Contact Resistance:

30 mΩ

### 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)



• 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**  
= 30μ" (0.76 μm) 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 (100 CYCLES) |               |               |
|--------------------------------------|---------------|---------------|
| SERIES                               | MATING        | UNMATING      |
| USB                                  | 5.3 (23,59N)  | 6.1 (27,15N)  |
| USBR                                 | 11.8 (52,51N) | 11.5 (51,18N) |

