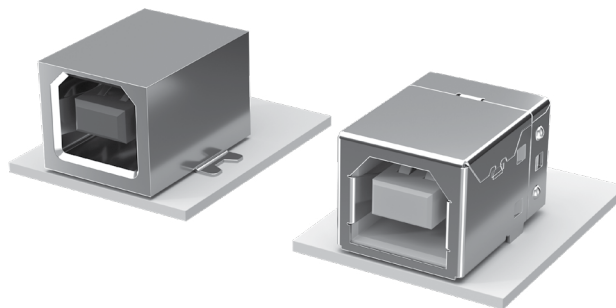




# STANDARD & RUGGED USB 2.0

## USB-B/USBR-B 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/ 43 VDC

**Cycles:**

1500  
(maximum number  
of cycles tested)

**Packaging:**

Packaged and shipped in  
Bulk Packaging Trays; Trays  
suitable for automation are  
available upon request.

**Lead-Free Solderable:**

USB-SM=Yes  
USB-TH=No, Lead Wave Only  
USB-VT=No, Lead Wave Only  
USBR=Yes

**TID Number:**

USB-B-S-X-X-TH (61001155)

### SERIES

#### USB

= Standard Connector

#### USBR

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

### B

### S

### PLATING

#### -F

= Gold  
Flash on  
Mating Area,  
Tin on Tails

#### -S

= 30 μm  
(0.76 μm)  
Gold on  
Mating Area,  
Tin on Tails

### COLOR

#### -B

= Black  
(USB only)

#### -W

= White  
(USB only)

#### -O

= Pantone  
2028C  
(Orange)  
(Color  
may vary  
between  
shades of  
orange and  
red due to  
the molding  
process)  
(USBR only)

### TERMINATION

#### -TH

= Through-hole

#### -SM

= Surface Mount  
(USB only)

#### -VT

= Vertical Top Entry

### OTHER OPTION

#### -TR

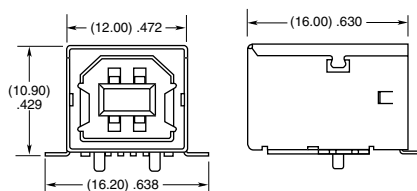
= Tape  
and Reel  
(-SM only)

#### -FR

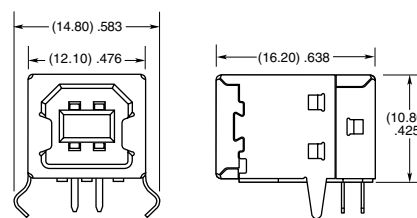
= Full Reel  
Tape & Reel  
(must order  
maximum  
quantity  
per reel;  
contact  
Samtec for  
quantity  
breaks)  
(-SM only)

### MATING / UNMATING FORCE (100 CYCLES)

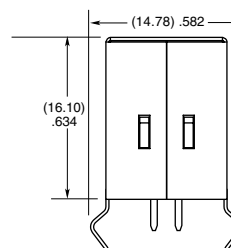
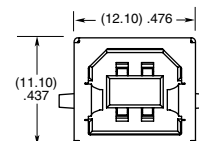
| SERIES | MATING            | UNMATING          |
|--------|-------------------|-------------------|
| USB    | 5.3<br>(23.59 N)  | 6.1<br>(27.15 N)  |
| USBR   | 11.8<br>(52.51 N) | 11.5<br>(51.18 N) |



-SM



-TH



-VT

View complete specifications at: [samtec.com?USB-B](http://samtec.com?USB-B) or [samtec.com?USBR-B](http://samtec.com?USBR-B)