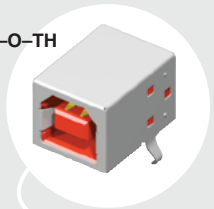
samtec

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 or 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)

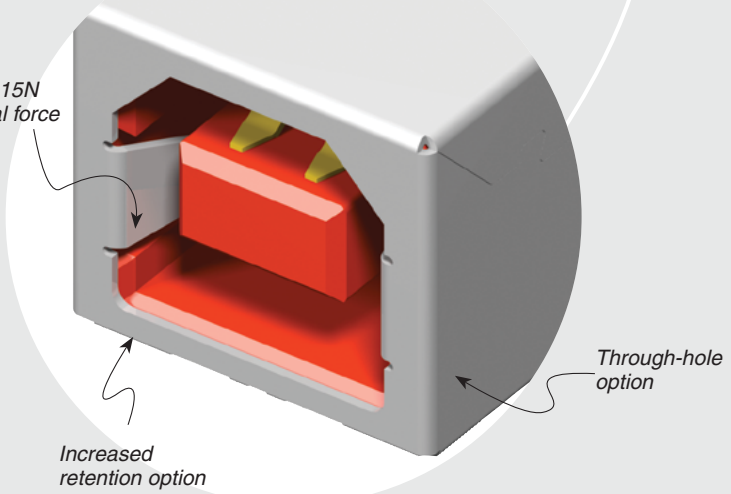
## RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

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

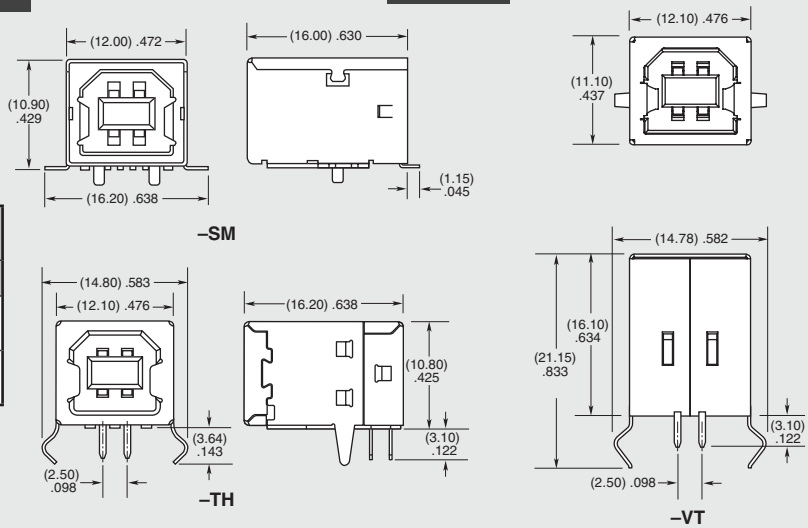
RUGGEDIZED BY SAMTEC

- High retention option




| TYPE | B | S | PLATING | COLOR | TERMINATION | OTHER OPTION |
|---|---|---|---|---|---|---|
| **USB** = Standard Connector<br>**USBR** = Increased Retention Connector (Complies with Class 1, DIV II minimum withdrawal requirement of 15N) | | | **–F** = Gold Flash on Mating Area, Tin on Tails<br>**–S** = 30 µ" (0.76 µm) Gold on Mating Area, Tin on Tails | **–B** = Black (USB only)<br>**–W** = White (USB only)<br>**–O** = Orange (USBR only) | **–TH** = Through-hole<br>**–SM** = Surface Mount (USB only)<br>**–VT** = Vertical Top Entry | **–TR** = Tape and Reel Packaging (–SM only) |

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




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



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.

# Mouser Electronics

Authorized Distributor

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Samtec:

USB-B-S-F-B-TH USB-B-S-F-B-SM-R USB-B-S-S-B-VT USB-B-S-F-W-SM-TR USB-B-S-S-B-SM USB-B-S-S-W-TH USB-B-S-F-B-SM USB-B-S-S-W-SM USB-B-S-F-B-SM-TR USB-B-S-S-B-SM-R USB-B-S-F-W-SM-R USB-B-S-F-B-VT USB-B-S-S-W-VT USB-B-S-F-W-TH USB-B-S-S-B-TH USB-B-S-F-B-TH-R USB-B-S-F-B-VT-R