



# TSV

Series

## 1GHz 90dB/130dB EMI CATV Vertical Splitters

- Broadband 5-1000MHz frequency range
- Vertical port design allows close mounting in lock boxes for easy access of cable connections
- 1-inch centered 1/2" long precision machined F-connector threads ensure improved port-to-connector interface and accommodate external security devices
- Standard TSB-series splitters feature an epoxy-sealed back cover that provides effective EMI-RFI shielding >-90dB reducing signal ingress
- TSB-SB-series feature a solder-back cover-plate providing maximum EMI-RFI shielding >-130dB and eliminating signal ingress to guarantee distortion-free pictures
- Silver-coated zinc-alloy diecast housing ensures excellent ground bonding and long corrosion-free service life in indoor/outdoor applications
- Capacitor coupling circuitry at all ports provides effective DC voltage blocking
- Internal seizing pins provide improved connectivity to connector center lead
- Mounting tabs with provided mounting screws enables easy installation
- Cast-in integrated ground block with convenient 3-way mounting screws (Slotted, Hex, Phillips) enables cost-effective installations
- Performance tests conducted conforming with SCTE standards IPS TP-201, 202, 203, 406

**TRU SPEC™**  
A PICO MACOM REGISTERED TRADEMARK



**TSV-2  
TSV-2SB**



**TSV-3  
TSV-3SB**



**TSV-4  
TSV-4SB**



**TSV-6  
TSV-6SB**



**TSV-8  
TSV-8SB**

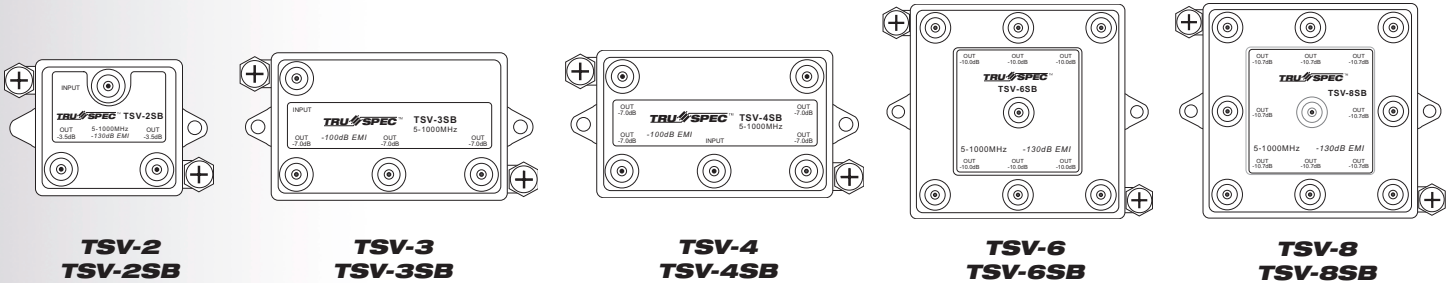
# TSV Series

## 1GHz 90dB/130dB EMI CATV Vertical Splitters

Manufactured to high performance standards, TruSpec's TSV-series 1GHz professional-grade CATV splitters provide excellent performance rivaling competitors' equivalent models. Applications range from residential to MDU installations in international and domestic cable distribution systems. The vertical-port design ideally suits these splitters for applications where limited space is available such as lock boxes and utility closets. Our advanced printed board circuitry includes special ferrite core material guaranteeing minimal insertion loss, optimal isolation and return loss to 1GHz ensuring high-quality analog or digital signal transfer. TSV series F-port threads are precision machined, ensuring easy connector installation and removal, and improved port-to-connector interface. The silver-plated zinc alloy cast case features mounting tabs and cast-in ground block enabling easy and cost efficient installations. TSV series are optionally available in >90dB epoxy-backed or >130dB solder-backed versions. Each TSV splitter is individually tested at the factory to comply with precise quality standards.

# TSV Series

1GHz 90dB/130dB EMI CATV Vertical Splitters



## Specifications

### TSV-2 and TSV-2SB

Insertion Loss (In-Out) : 3.5dB Typical **Trace A**  
 Return Loss (Output): 27dB Typical  
 Isolation (Out-Out): 33dB Typical  
 Dimensions: 2.3" (L) x 1.5" (W) x 1.1"(H)

### TSV-3 and TSV-3SB

Insertion Loss (In-Out): 3.5dB Typical **Trace A**  
 7.0dB Typical **Trace B**  
 Return Loss (Output): 24dB Typical  
 Isolation (Out-Out): 33dB Typical  
 Dimensions: 3.3"(L) x 1.5"(W) x 1.1"(H)

### TSV-4 and TSV-4SB

Insertion Loss (In-Out): 7.0dB Typical **Trace B**  
 Return Loss (Output): 23dB Typical  
 Isolation (Out-Out): 32dB Typical  
 Dimensions: 3.3"(L) x 1.5"(W) x 1.1"(H)

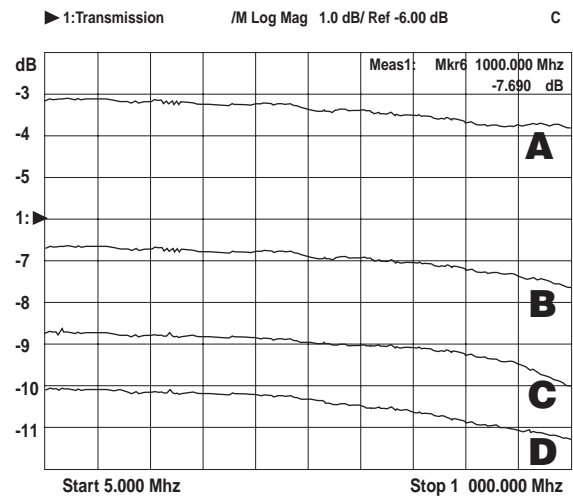
### TSV-6 and TSV-6SB

Insertion Loss (In-Out): 9.0dB Typical **Trace C**  
 Return Loss (Output): 29dB Typical  
 Isolation (Out-Out): 37dB Typical  
 Dimensions: 3.3"(L) x 2.7"(W) x 1.1"(H)

### TSV-8 and TSV-8SB

Insertion Loss (In-Out): 10.4dB Typical **Trace D**  
 Return Loss (Output): 28dB Typical  
 Isolation (Out-Out): 38dB Typical  
 Dimensions: 3.3"(L) x 2.7"(W) x 1.1"(H)

### INSERTION LOSS Typical



## Ordering Information

**TSV-2** 2-Port Vertical Splitter 90dB EMI Epoxy-Backed  
**TSV-3** 3-Port Vertical Splitter 90dB EMI Epoxy-Backed  
**TSV-4** 4-Port Vertical Splitter 90dB EMI Epoxy-Backed  
**TSV-6** 6-Port Vertical Splitter 90dB EMI Epoxy-Backed  
**TSV-8** 8-Port Vertical Splitter 90dB EMI Epoxy-Backed

**TSV-2SB** 2-Port Vertical Splitter 130dB EMI Solder-Backed  
**TSV-3SB** 3-Port Vertical Splitter 130dB EMI Solder-Backed  
**TSV-4SB** 4-Port Vertical Splitter 130dB EMI Solder-Backed  
**TSV-6SB** 6-Port Vertical Splitter 130dB EMI Solder-Backed  
**TSV-8SB** 8-Port Vertical Splitter 130dB EMI Solder-Backed

Specifications Subject to Change

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