

# TSB-1G

Series

1GHz 130dB EMI Digital CATV Splitters

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

**SCTE**  
COMPLIANT

- ▶ **Digital-Ready Broadband 5-1000MHz** frequency range
- ▶ **Solder-back cover-plate** provides maximum EMI-RFI shielding >-130dB eliminating signal ingress to guarantee distortion free pictures
- ▶ **Thick tin-coated zinc-alloy diecast housing** ensures excellent ground bonding and long corrosion-free service life in indoor/outdoor applications
- ▶ **High-performance printed board circuitry** provides low intermodulation distortion >-100dB to ensure excellent digital performance
- ▶ **High isolation >-40dB** at 5-45MHz sub-bands provides for high level upstream signals
- ▶ **TSB-1G-series** features capacitor coupling circuitry at all ports for effective DC voltage blocking
- ▶ **TSB-1GDC-series** provide DC power passage to one port while blocking DC power to all other ports provides for remote powering applications and powering the antenna preamplifier directly from the headend
- ▶ **1-inch centered 1/2" long precision machined F-connector threads** ensure improved port-to-connector interface and accommodate external security devices
- ▶ **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 compliant with SCTE standards** IPS TP-201, 202, 203, 403A, 406



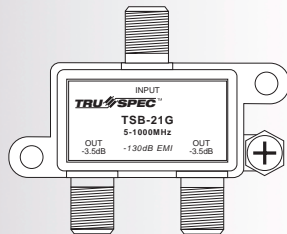
# TSB-1G Series

1GHz 130dB EMI Digital CATV Splitters

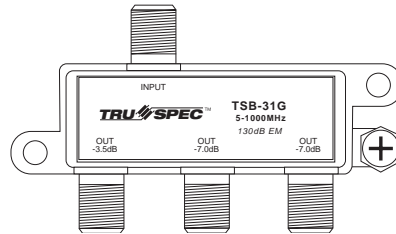
Manufactured to precise performance standards, TruSpec's TSB-1G series 1GHz professional-commercial grade CATV splitters provide superb performance unsurpassed by competitors' equivalent models. Applications range from residential to MDU installations in international and domestic cable distribution systems. Our advanced printed board circuitry includes special ferrite core material guaranteeing unsurpassed insertion loss, optimal isolation and return loss performance to 1GHz ensuring high-quality analog or digital signal transfer. **TSB-1G series** F-port threads are precision machined, ensuring easy connector installation and removal, and improved port-to-connector interface. Internal seizing pins ensure excellent connectivity to connector center lead. The **TSB-1G series** splitters feature a solder-back cover-plate to provide the highest possible EMI-RFI shielding >-130dB eliminating signal ingress and providing a full environmental seal. A thick tin coating over its zinc-alloy diecast housing ensures excellent corrosion resistance. Each **TSB-1G** splitter is fully tested at the factory and certified to SCTE standards.

# TSB-1G Series

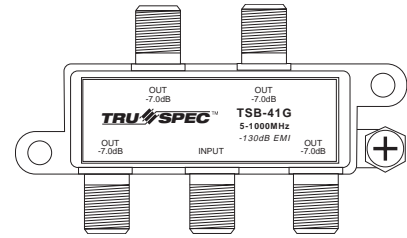
1GHz 130dB EMI Digital CATV Splitters



**TSB-21G**  
**TSB-21GDC**



**TSB-31G**  
**TSB-31GDC**



**TSB-41G**  
**TSB-41GDC**

## Specifications

### TSB-21G

Insertion Loss (In-Out) : 3.5dB Typical Trace A  
 Return Loss (Output): 28dB Typical  
 Isolation (Out-Out): 34dB Typical  
 Dimensions: 2.3" (L) x 1.9" (W) x 0.6" (H)

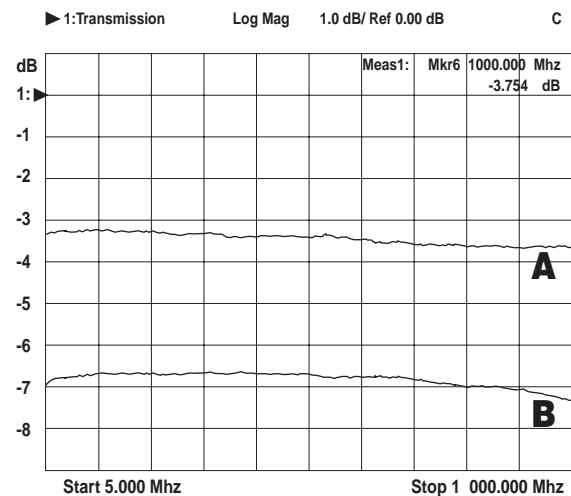
### TSB-31G

Insertion Loss (In-Out): 3.7dB Typical Trace A  
 6.8dB Typical Trace B  
 Return Loss (Output): 30dB Typical  
 Isolation (Out-Out): 34dB Typical  
 Dimensions: 3.0" (L) x 1.9" (W) x 0.6" (H)

### TSB-41G

Insertion Loss (In-Out): 7.0dB Typical Trace B  
 Return Loss (Output): 30dB Typical  
 Isolation (Out-Out): 34dB Typical  
 Dimensions: 3.0" (L) x 1.9" (W) x 0.6" (H)

### INSERTION LOSS Typical



## Ordering Information

<b>TSB-21G</b>	2-Port Splitter DC-Blocking All-Ports	<b>TSB-21GDC</b>	2-Port Splitter DC-Passing to 1-Port
<b>TSB-31G</b>	3-Port Splitter DC-Blocking All-Ports	<b>TSB-31GDC</b>	3-Port Splitter DC-Passing to 1-Port
<b>TSB-41G</b>	4-Port Splitter DC-Blocking All-Ports	<b>TSB-41GDC</b>	4-Port Splitter DC-Passing to 1-Port