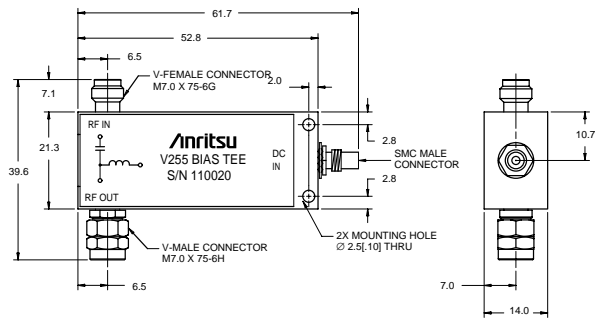


ULTRA-WIDEBAND BIAS TEES

V255 50 kHz to 65 GHz



V255 outline drawing

The V255 Gen II Ultra Wideband Bias Tee is designed to meet the high electrical performance requirement of passive components in optical communication networks. Given a broader bandwidth of 50 kHz to 65 GHz, with low insertion losses and very good return loss, makes it ideal to use in 40 Gbps systems to bias optical modulators and broad band data drivers. It's fast rise time and flat group delay performance allows extremely accurate measurements within a laboratory environment. The V255 Bias Tee comes with a standard V Connector® that assures excellent impedance match across the available wide bandwidth. The DC signal can be applied or extracted from the bias tee through an SMC connector at the third port. As with our other bias tees, the V255 also has a one-year warranty.

Features • Ideal for Optical Communication applications.

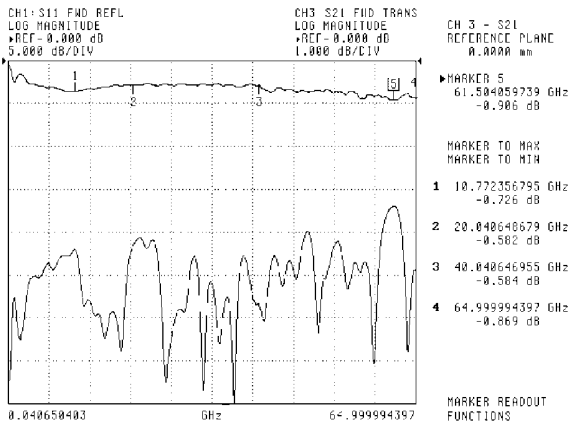
- Very low Insertion Loss
- Rise Time 3 ps typical
- High Current Capacity
- High Isolation between Input Port and DC Port

Specifications

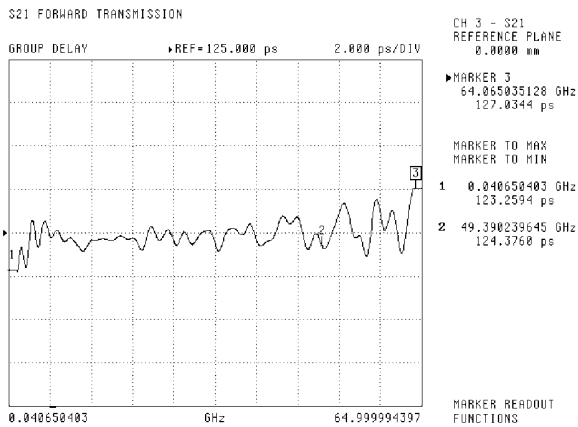
Model	Frequency range	Insertion loss	Return loss	Rise time	Group delay	Max DC current	Max DC voltage	Min. Isolation	Operating temperature
V255	50 kHz to 65 GHz 30 kHz to 65 GHz typical	1.2 dB to 65 GHz typical	< -15 dB to 65 GHz typical	3 ps typical	125 ± 2 ps typical	400 mA	16 VDC	-50 dBm	0°C to 80°C

ULTRA-WIDEBAND BIAS TEES

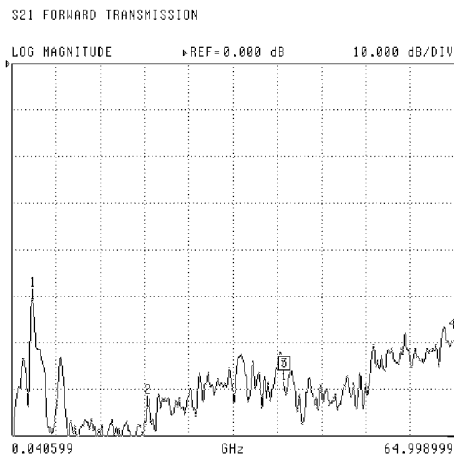
V255 50 kHz to 65 GHz



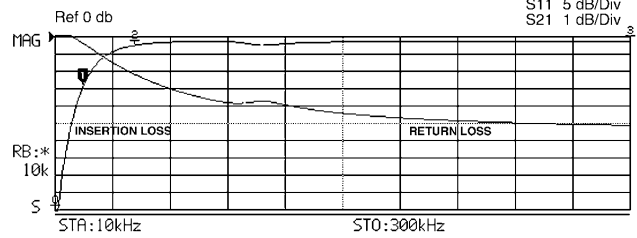
Typical High Frequency Insertion Loss and Return Loss measured on V255 over the range of 40 MHz to 65 GHz using Anritsu 37397C VNA



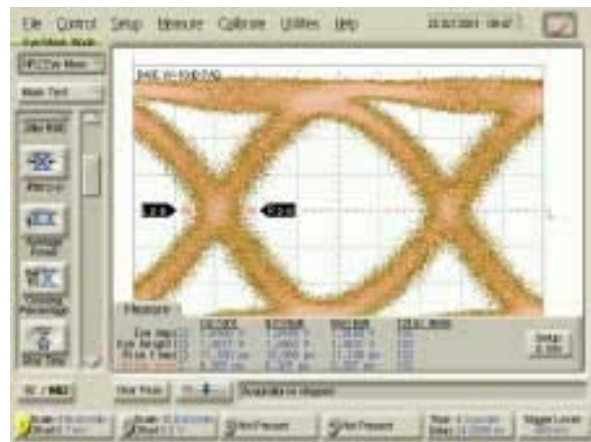
Typical Group Delay Performance measured on V255 using Anritsu 37397C VNA



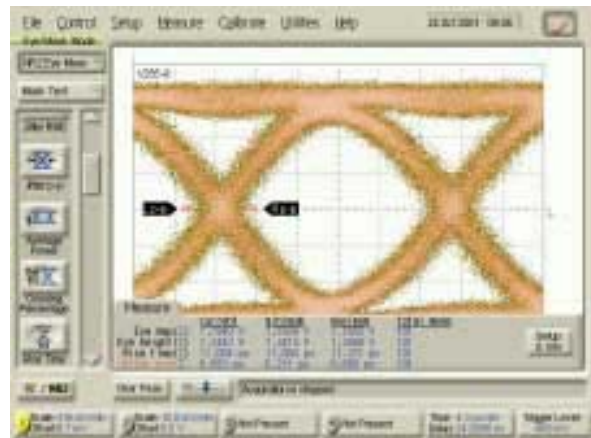
Typical Isolation between Data I/P and DC Port using Anritsu 37397C VNA



Typical Low Frequency Insertion Loss and Return Loss measured on V255 Bias Tee over the range of 10 kHz to 300 kHz



Input Test Signal to V255 2.0V NRZ Input Signal using Anritsu 43G ME7750A BERT



V255 Output Response to 2.0V NRZ Input Signal using Anritsu 43G ME7750A BERT

Ordering information

Please specify model/order number, name, and quantity when ordering.

Model/Order No.	Name
V255	Gen II Wideband Bias Tee, 50 kHz to 65 GHz