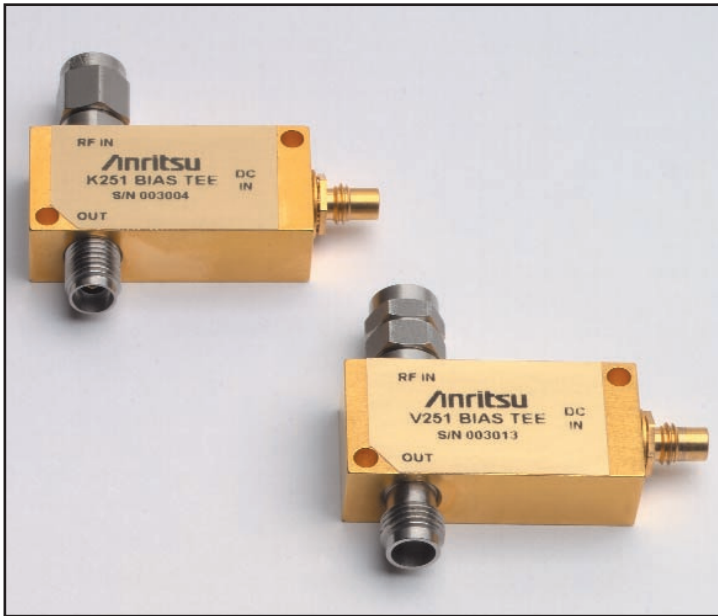


Ultra-Wideband Bias Tees

Models K251 and V251

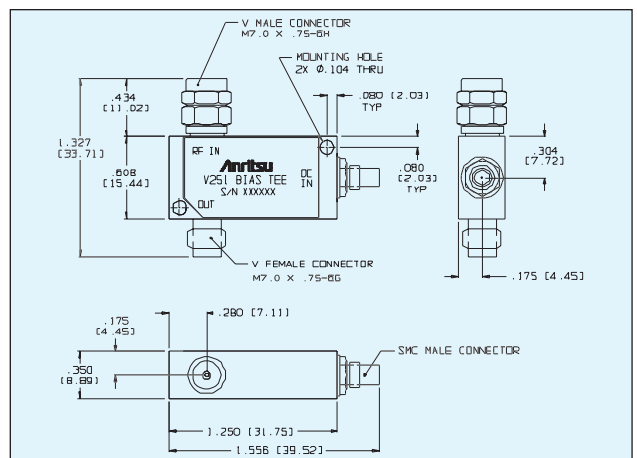
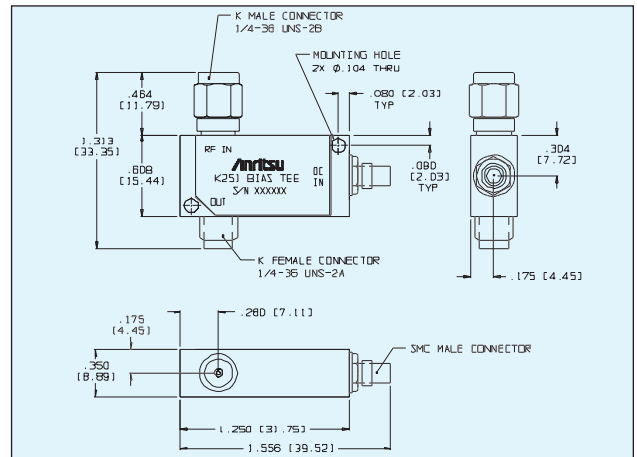


Ideal for Optical Communications Applications

Low Insertion Loss

Risetime: <5 ps (V251)
<7 ps (K251)

Outline Drawings

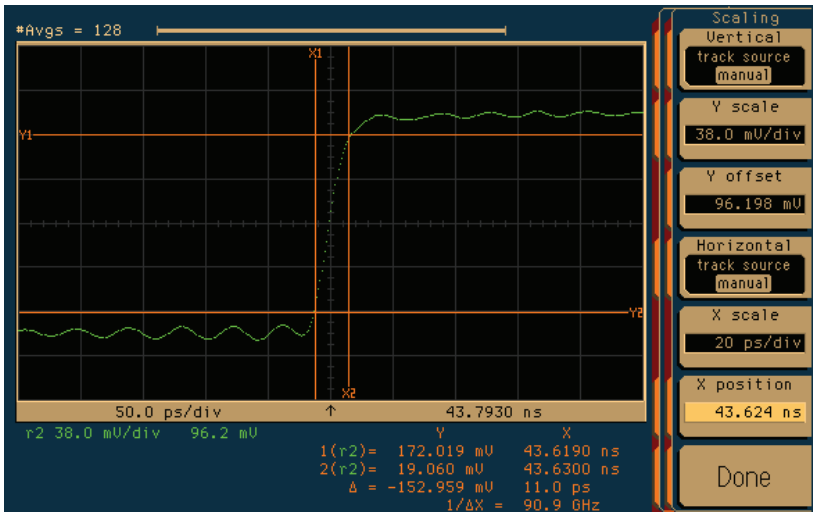
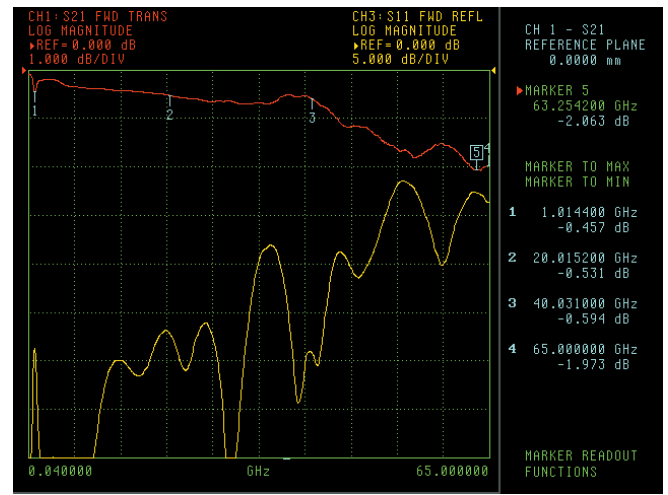
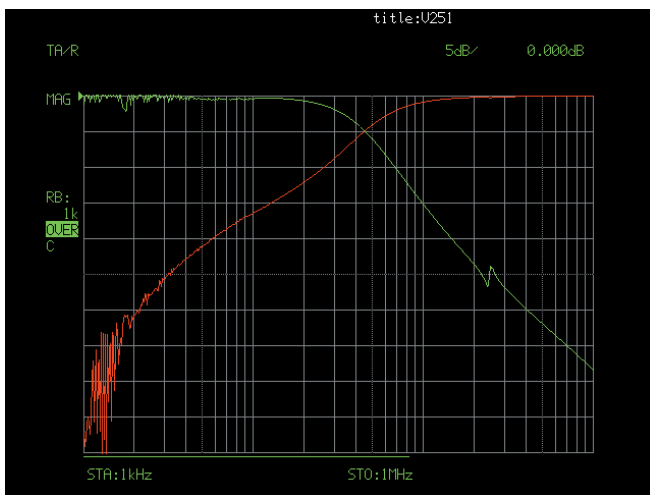
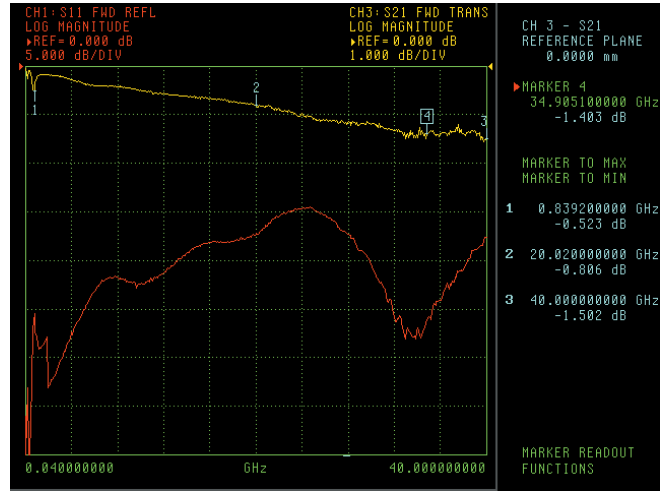
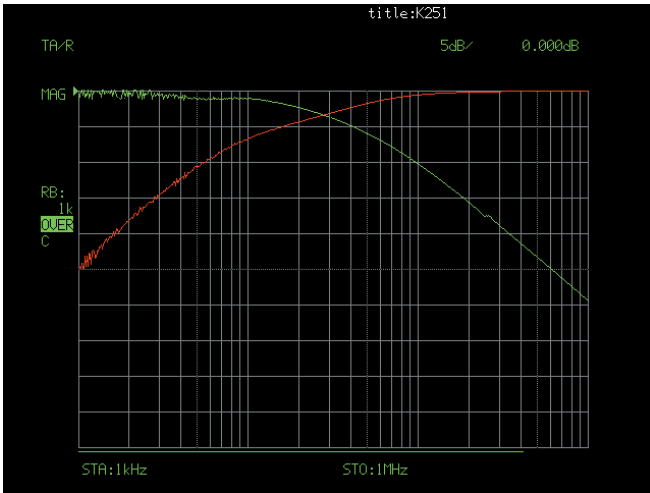


These ultra-wide bandwidth bias tees have been optimized for optical communications and other high-speed pulse, data or microwave applications. Designed to simultaneously apply both DC and RF drive signals to a device via a single input port, these bias tees feature fast rise times, excellent low frequency response, minimum insertion loss and flat group delay. Precision "K"™ and "V"™ connectors assure excellent impedance match across the wide bandwidths available. A one year warranty is provided.

Specifications

Model	K251	V251
Freq. Range: 3dB BW	50 kHz to 40 GHz	100kHz to 65 GHz
Insertion Loss	<2 dB typical	< 2.5 dB typical
Return Loss	See Plot	See Plot
Rise Time	< 7 ps typical	< 5 ps typical
Group Delay	110 +/- 2 ps typical	113 +/-2 ps typical
Max DC Current	100mA	100 mA
Max DC Voltage	16VDC	16VDC
Max RF Power	1 W	1 W
Connectors	RF In: K(m) RF Out: K(f) Bias: SMC(m)	RF In: V(m) RF Out: V(f) Bias: SMC(m)

Specifications apply over the full DC Bias current range and over the temperature range of 0 C to +70 C.



Typical Uncorrected Pulse Response for V251. Absolute risetime for the Bias Tee is derived from this measured data by applying the RSS method to compensate for the risetime of the input pulse.

$$\sqrt{T_{BT}^2 + T_{PG}^2} = T_{meas.}$$

$T_{meas.}$ = uncorrected risetime
 T_{BT} = absolute Bias Tee risetime
 T_{PG} = risetime of input pulse

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 Ultra-Wideband Bias Tees