

KELVIN CONNECTION BIAS TEE

K252, V252 DC to 65 GHz



Kelvin Connection Bias Tee is designed for applications where both DC and RF signals are applied to the Device under Test (DUT) and precision DC measurements are required. A high resistance of the DC Coil results in a voltage drop that leads to a DC Biasing voltage error in the measurements. A Kelvin connection bias tee is used to eliminate DC Biasing errors as the sense coil allows accurate measurement of the DC Voltage applied across the DUT. Both 40 GHz and 65 GHz models are available with precision K connectors® and V Connectors® respectively. A male connector for the RF input and a female connector for the output is the standard interface for K252 and V252 Bias Tees. A SMC connector is standard for DC Bias and Sense connections. Other connector types with different connector configurations can be ordered through factory.

Features

- Broadband 0.1 to 65 GHz frequency coverage
- 50 V and 500 mA Current capability
- Low Insertion and SWR performance

Model	Frequency Range 3dB BW	Insertion Loss	Return Loss	Max DC Current	Max DC Voltage	Max RF Power	Connectors	Inductance
K252	100 MHz to 40 GHz	<2.5 dB typical	11 dB	500 mA	50 VDC	1 W	RF In: K(m) RF Out: K(f) Bias: SMC(m) Sense: SMC(m)	Bias: 14 μ H Sense: 8 μ H
V252	100 MHz to 65 GHz	<3.7 dB typical	10 dB to 60 GHz 8 dB to 65 GHz	500 mA	50 VDC	1 W	RF In: V(m) RF Out: V(f) Bias: SMC(m) Sense: SMC(m)	Bias: 14 μ H Sense: 8 μ H

Ordering information

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

Model/Order No.	Name
K252	Kelvin Bias Tee, 0.1 to 40 GHz
V252	Kelvin Bias Tee, 0.1 to 65 GHz