

BIAS TEE

K250 100 MHz to 40 GHz, V250 100 MHz to 60 GHz



K250

These bias tees are designed for applications where both DC and RF signals must be applied to a device under test. They are particularly suited for active device measurements. DC voltages of up to 30 volts at 0.5 amps may be applied to test devices with negligible effect on RF performance. Low RF throughline loss (<1 dB) and low return loss ensure negligible effect on measurements up to 60 GHz. An RF input DC block isolates the input port from the applied bias voltage.

Features

- Broadband, 0.1 to 60 GHz coverage
- Low SWR, low insertion loss
- K Connector® and V Connector® availability

Specifications

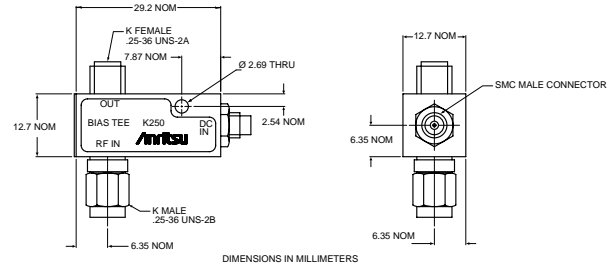
Model	K250	V250
Frequency range	0.1 to 40 GHz ¹	0.1 to 60 GHz ¹
Insertion loss	1.2 dB typ.	2.2 dB typ.
Return loss	15 dB min. to 20 GHz 10 dB min. to 40 GHz	13 dB min. to 20 GHz 9 dB min. to 40 GHz 8 dB min. to 60 GHz
RF power	1W max.	1W max.
DC voltage	30V max.	30V max.
DC current	0.5A	0.5A
DC port isolation	20 dB at 0.1 GHz 40 dB above 0.5 GHz	20 dB at 0.1 GHz 40 dB above 0.5 GHz
RF connectors	Input: K(m) Output: K(f)	Input: V(m) Output: V(f)
DC connectors	SMC(m)	SMC(m)

1. Usable between 0.04 and 0.1 GHz with degraded performance.

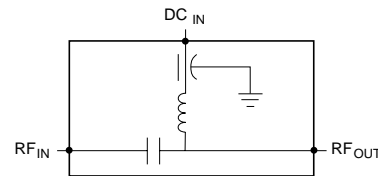
Temperature range: 0° C to +70° C

Specifications

Temperature	0 to 60° C
Mounting position	Any
Weight	57g



Outline drawing (K and V models)



Schematic diagram (K and V models)

Ordering information

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

Model/Order No.	Name
K250	Precision Bias Tee, 100 MHz to 40 GHz
V250	Precision Bias Tee, 100 MHz to 60 GHz