

KEYSIGHT TECHNOLOGIES (AGILENT HP)

11612A

The Keysight 11612A (formerly Agilent) is a broadband bias network designed for a wide variety of biasing applications in laboratory and production environments. Operating from 45 MHz to 26.5 GHz, this bias tee provides a means of supplying up to 40 V and 500 mA DC bias to the center conductor of a coaxial line while blocking DC to the RF port, featuring low insertion loss and excellent SWR performance.

SPECIFICATIONS

General

Interfaces	RF Input: 3.5 mm (f), RF Output: 3.5 mm (m), DC Bias: SMB (m)
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Physical

Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	64 mm × 32 mm × 16 mm mm
Weight	0.15 kg kg
Shipping Weight	0.5 kg

General & Interface Configuration

Connector A (RF Input)	3.5 mm (female)
Connector B (RF Output)	3.5 mm (male)
DC Bias Connector	SMB (male)
Frequency Range	45 MHz to 26.5 GHz
Nominal Impedance	50 Ω

RF & Electrical Performance

Maximum VSWR	1.22 (<8 GHz), 1.29 (<18 GHz), 1.5 (<26.5 GHz)
Insertion Loss	0.8 dB (<12.4 GHz), 1.3 dB (<26.5 GHz)
Maximum RF Power	+24 dBm
Maximum Bias Current	500 mA
Maximum Bias Voltage	40 V

Accessories

Included Cable	SMB (female) to BNC (male)
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Electrical Specifications

RF-to-DC Isolation (45 MHz to 18 GHz)	>20 dB
RF-to-DC Isolation (18 GHz to 26.5 GHz)	>15 dB
DC Path Resistance	2.5 Ω (typical)

TECHNOLOGY

Passive RF

APPLICATIONS

Supplying DC bias to the center conductor of a coaxial connector while blocking DC to the RF port

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