

KEYSIGHT TECHNOLOGIES (AGILENT HP)

11667A

The Keysight 11667A is a high-performance, two-resistor coaxial power splitter designed for wideband ratio measurements and source leveling applications. Operating from DC to 18 GHz, it provides excellent amplitude tracking and low equivalent output SWR to minimize measurement uncertainties, particularly when used in conjunction with scalar network analyzers like the Keysight 8757 series.

SPECIFICATIONS

General

Interfaces	None (Passive coaxial RF interface)
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Physical

Power Supply	None (Passive device)
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	46 mm × 52 mm × 21 mm mm
Weight	0.14 kg kg
Shipping Weight	0.22 kg
Center Contact Material	Gold-plated beryllium copper
Outer Contact Material	Stainless steel (Type-N connectors)

RF Performance

Frequency Range	DC to 18 GHz
Nominal Impedance	50 Ω
Splitter Type	Two-resistor
Nominal Insertion Loss	6 dB
Maximum CW Input Power	0.5 W (+27 dBm)
Maximum Peak Input Power	1 kW
Maximum Pulse Width	10 μ s (for peak power)
Maximum Duty Cycle	0.5% (for peak power)
Equivalent Output SWR (DC to 4 GHz)	1.10
Equivalent Output SWR (4 to 8 GHz)	1.15
Equivalent Output SWR (8 to 18 GHz)	1.22
Input SWR (DC to 4 GHz)	1.15
Input SWR (4 to 8 GHz)	1.25
Input SWR (8 to 18 GHz)	1.45
Amplitude Tracking (DC to 4 GHz)	± 0.15 dB
Amplitude Tracking (4 to 8 GHz)	± 0.20 dB
Amplitude Tracking (8 to 18 GHz)	± 0.25 dB
Phase Tracking	2° (typical)

Mechanical & Connectors

Input Connector Type	Type-N
Input Connector Gender	Female
Output Connector Type	Type-N
Output Connector Gender (Auxiliary Arm)	Female
Output Connector Gender (Test Arm)	Female

Environmental

Operating Altitude	up to 4600 m
Non-Operating Altitude	up to 15200 m

Product Options

Option 001 Configuration	Type-N (male) input, Type-N (female) outputs
Option 002 Configuration	Type-N (female) input, Type-N (male) outputs

Design

Resistor Configuration	Two-resistor
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Configuration

Calibration Options	Option UK6 (Commercial calibration certificate with test data), Option A6J (ANSI Z540-1-1994 calibration)
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TECHNOLOGY

Coaxial RF / Microwave

APPLICATIONS

Wideband ratio measurements, source leveling, and power splitting

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