Product Fact Sheet

Keysight Power Limiter

Protect Your Investment from Excess RF Power, DC Transients, and ESD

Keysight power limiters are designed for input protection of electronic components for communications, telemetry, radar systems and high frequency instrumentation technologies. Keysight power limiters provide customers with a choice of operating frequency range and limiting threshold to suit their applications. With the combination of excellent insertion loss and return loss, these limiters will safe-guard your customers investment from damage due to excess RF power, DC transients or Electro-Static-Discharge (ESD).

N9355B & N9356B

N9355F

11930A & 11930B

N9356C

Key features

- High power protection
  Prevents damage by undesired ESD and excess RF power
- Exceptional return loss > 15 dB at 50 GHz
  Improved calibration accuracy
- Low insertion loss < 1.75 dB at 18 GHz
  Maximizes available power
- Bi-directional
  Utilization eliminates orientation errors

KEYSIGHT TECHNOLOGIES

Product specifications

Model	Impedance (Ω) (nominal)	Frequency range	Insertion loss	Return loss	Maximum continous RF input power (W)	Limited threshold (dBm) (typical)	Maximum DC voltage (V)	Input/output connectors
11867A	50	10 Hz to 1.8 GHz	< 1.0 dB	> 20 dB	10	0	< 1.3 Vdc with no RF applied 0.0 Vdc with RF power applied	Type-N
11930A	50	DC to 6 GHz	< 1.0 dB DC to 3 GHz < 1.5 dB 3 to 6 GHz	> 22 dB 30 kHz to 3 GHz > 20 dB 3 to 6 GHz	3	30	30	APC-7 (7 mm)
11930B	50	5 MHz to 6.5 GHz [3]	< 1.0 dB DC to 3 GHz [2] < 1.5 dB 3 to 6.5 GHz	> 21 dB 16 MHz to 3 GHz [2] > 17 dB 3 to 6.5 GHz	3	30	30	Type-N
N9355B	50	10 MHz to 18 GHz	< 1.75 dB	> 15 dB [1]	1	10	30	Type-N
N9356B	50	10 MHz to 18 GHz	< 1.75 dB	> 15 dB [1]	6	25	30	Type-N
N9355C	50	10 MHz to 26.5 GHz	< 2 dB	> 15 dB [1]	1	10	30	3.5 mm
N9356C	50	10 MHz to 26.5 GHz	< 2.25 dB	> 15 dB [1]	4	25	30	3.5 mm
N9355F	50	10 MHz to 50 GHz	< 2 dB 10 MHz to 26.5 GHz < 2.75 dB 26.5 to 40 GHz < 3.5 dB 40 to 50 GHz	> 10 dB [1]	0.63	10	30	2.4 mm

Supplemental characteristics are intended to provide information useful in applying the instrument by giving typical, but non-warranted, performance parameters. These are denoted as “typical”, or “nominal”.

1. 10 to 30 MHz return loss specification is 8.5 dB.
2. 5 to 16 MHz insertion and return loss limited by internal blocking capacitor.
3. 6 to 6.5 GHz typical.

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