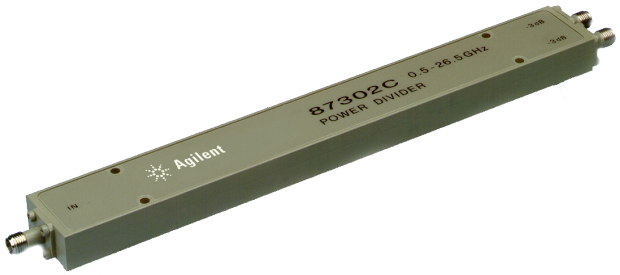
Quick Fact Sheet

Agilent Power Dividers

Agilent power dividers are an RF and microwave accessory construct by equivalent resistance of 50 Ω, it's used to divide power equally in a uniform transmission line for comparison measurements. The power divider provides a good impedance match at both the output arms when the input is terminated in the system characteristic impedance (50 Ω). Once a good source match has been achieved, the power divider may be used to divide the output into equal signals for comparison measurements.

11636B power divider



87302C Hybrid power dividers

11636C power divider

Key measurements

- Broad operating frequency range up to 50 GHz eliminates the need for multiple dividers
- Excellent amplitude (±0.3 dB) and phase tracking (±2 °) ensures highly accurate power division
- Low SWR 1.67 at 50 GHz minimizes measurement uncertainty

Agilent Power Dividers

Product specifications

Model	Frequency	Max SWR	Maximum insertion loss (dB)	Minimum isolation (dB)	Maximum amplitude tracking (dB) [1]	Maximum phase tracking (°) [1]
11636A	DC to 18 GHz	1.35	6.0 typ [2]	–	0.5 [3]	±2 ° typ
11636B	DC to 26.5 GHz	1.29	7.5	–	0.25 [3]	±2 ° typ
11636C	DC to 50 GHz	1.67	8.5	–	0.30 [4]	±2 °
87302C	0.5 to 18 GHz	1.45	1.5 [5]	19	0.3	6
	18 to 26.5 GHz	1.6	1.9 [5]	19	0.5	10
87303C	1.0 to 18 GHz	1.45	1.2 [5]	19	0.3	6
	18 to 26.5 GHz	1.6	1.6 [5]	21	0.5	10
87304C	2.0 to 18 GHz	1.45	1.1 [5]	19	0.3	6
	18 to 26.5 GHz	1.6	1.4 [5]	18	0.5	10

1. *Amplitude and phase tracking are the ratio of one output to the other in dB or degrees, respectively.*
2. *5.8 to 7.2 dB up to 10 GHz; 5.8 to 7.5 dB up to 18 GHz.*
3. *At 18 GHz.*
4. *At 50 GHz.*
5. *Insertion loss is in addition to 3 dB coupling loss.*

For more detail information on "*Agilent Power Divider*", please refer to product literature number 5989-6698EN

Download or order from **www.agilent.com/find/mta**

To find a distributor in your area, go to **www.agilent.com/find/distributors**

Recommended service options

Additional two years of Return-to-Agilent warranty
Additional two years of Return-to-Agilent calibrations
For more information go to **www.agilent.com/find/removealldoubt**

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