

2 Way Power Divider SMA Connectors From
500 MHz to 2 GHz Rated at 20 Watts



MP8309-2

Features

- 2-Way Power Divider
- Reactive Design
- 500 MHz to 2 GHz Frequency Range
- Max Power 20W (CW)
- Isolation > 22 dB

Applications

- Test and Measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM

Description

Fairview Microwave carries a wide selection of power dividers to fit your needs. These components are essential in many systems, allowing the combination of multiple signals or splitting of a single signal into multiple signals with equal magnitude and phase. Fairview Microwave's resistive and reactive power dividers come with excellent performance featuring minimal loss, high isolation and low VSWR. They are available in both narrow and broad bandwidths with a variety of connector types.

The MP8309-2 is a 2 way reactive power divider that operates from 500 MHz to 2 GHz and can handle up to 20 Watts (CW). This SMA power divider offers 22 dB min isolation and 1.25:1 max VSWR. The package interface uses SMA inputs on all of the ports.

Electrical Specifications

Design	Reactive
Number of Output Ports	2

Description	Min	Typ	Max	Units
Frequency Range	0.5		2	GHz
Impedance		50		Ohms
Input VSWR			1.25:1	
Output VSWR			1.2:1	
Insertion Loss			3.4	dB
Isolation	22			dB
Amplitude Balance			±0.2	dB
Phase Balance			±3	Degrees
Nominal Power Splitting		3		dB
Input Power (CW)			20	Watts

Electrical Specification Notes:
Values at +25°C, sea level.
Insertion loss includes 3dB theoretical loss.

Mechanical Specifications

Size	
Length	2.12 in [53.85 mm]
Width	1.1 in [27.94 mm]
Height	0.39 in [9.91 mm]

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Weight	0.0735 lbs [33.34 g]
Configuration	
Input Connector	SMA Female
Output Connectors	SMA Female

Environmental Specifications

Temperature	
Operating Range	-55 to +125 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

2 Way Power Divider SMA Connectors From 500 MHz to 2 GHz Rated at 20 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 Way Power Divider SMA Connectors From 500 MHz to 2 GHz Rated at 20 Watts MP8309-2](#)

URL: <https://www.fairviewmicrowave.com/2-way-power-divider-sma-2-ghz-20-watts-mp8309-2-p.aspx>

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MP8309-2 CAD Drawing

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