8 Way Power Divider 2.92mm Interface from 6 GHz to 43.5 GHz Rated at 20 Watts

FMDV1284

Features

- 8-Way Power Divider
- 2.92mm Female Connectors
- 6 GHz to 43.5 GHz Frequency Range
- Max Power 20W (CW)
- Min Isolation 15 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 FMDV1284 is a 8 way power divider that operates from 6 to 43.5 GHz and can handle up to 20 Watts (CW). This 2.92mm power divider offers 15 dB min isolation and 2.2:1 max VSWR. The package interface uses 2.92mm Female inputs on all of the ports.

Electrical Specifications

Number of Output Ports 8

Description	Min	Typ	Max	Units
Frequency Range	6		43.5	GHz
Impedance		50		Ohms
Input VSWR		1.8:1	2.2:1	
Output VSWR		1.4:1	1.6:1	
Insertion Loss		2.2		
Isolation	15	18		dB
Amplitude Balance		±0.4	±0.5	dB
Phase Balance		±5	±6	Degrees
Nominal Power Splitting		9		dB
Input Power (CW)			20	Watts
Reverse Power (CW)			0.5	Watts
Input Power (Peak)			200	Watts
10% Duty Cycle, 1 µSec PW				

Specifications by Frequency

Description	F1	F2	F3	Units
Frequency Range	6-18	18-40	40-43.5	GHz
Input VSWR, Typ	1.6:1	1.8:1	2:1	
Input VSWR, Max	2.2:1	2:1		

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Specifications by Frequency

Description	F1	F2	F3	Units
Output VSWR, Typ	1.5:1	1.4:1	1.6:1	
Output VSWR, Max	1.6:1	1.6:1		
Insertion Loss, Typ	1.5	2.2	3.2	dB
Isolation, Min	15	16		dB
Isolation, Typ	17	18	16	dB
Amp Balance, Typ	0.4	0.4	0.5	dB
Phase Balance, Typ	4	5	6	dB
Phase Balance, Max	5	6		dB

Mechanical Specifications

Size

Length	1.57 in [39.88 mm]
Width	4.09 in [103.89 mm]
Height	0.39 in [9.91 mm]
Weight	0.1 lbs [45.36 g]
Finish	Grey Paint
Housing Material and Plating	Aluminum

Configuration

Input Connector	2.92mm Female
Output Connectors	2.92mm Female

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Storage Range	-50 to +105 deg C
Humidity	100% RH at 35°C, 95% RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions
Vibration	25g RMS (15 degrees) endurance, 1 hour per axis
Altitude	30,000 ft. (Epoxy Sealed controlled environment)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Typical Performance Data

8 Way Power Divider 2.92mm Interface from 6 GHz to 43.5 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: 8 Way Power Divider 2.92mm Interface from 6 GHz to 43.5 GHz Rated at 20 Watts FMDV1284

URL: https://www.fairviewmicrowave.com/8-way-power-divider-2.92mm-43.5-ghz-fmdv1284-p.aspx

FMDV1284 CAD Drawing

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