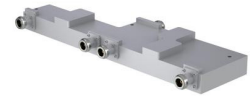


4 Way RF Power Combiner with N Female Connectors, 600 MHz to 6 GHz Frequency Range, 400 Watt Power Rating



FMS0041

Features

- Broadband frequency range from 600 MHz to 6 GHz
- Equal 4-way power split
- Low insertion loss
- Excellent input and output VSWR
- High isolation between output ports
- 100 watts CW power handling per port
- 400 watts total power handling
- 50 Ohm impedance
- Rugged conductive oxidation finish
- N female connectors

Applications

- RF test and measurement
- Laboratory testing
- Wireless communication systems
- Military and defense RF systems
- Broadcast systems
- Distributed antenna systems (non-Low PIM applications)
- Signal distribution networks
- RF power combining systems
- General-purpose RF integration

Description

The FMS0041 is a 4-way RF Combiner that operates from 600 MHz to 6 GHz. This passive device provides equal power division with low insertion loss, excellent VSWR, and high power handling of up to 100 watts per port (400 watts total when used as a combiner). Featuring N female connectors and a rugged conductive oxidation finish, it is designed for reliable performance in RF communication systems, test and measurement applications, distributed RF systems, and laboratory environments. The broadband design allows the unit to function as either a power divider or power combiner while maintaining consistent electrical performance across the operating frequency range.

Electrical Specifications

Number of Input Ports 4

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.6		6	GHz
Impedance		50		Ohms
Input VSWR			1.4:1	
Output VSWR			1.4:1	
Insertion Loss			1.5	dB
Isolation	16			dB
Power Handling (CW)			400	Watts

Mechanical Specifications

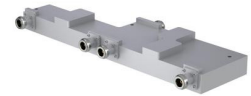
Size

Length 11.18 in [283.97 mm]
Width 2.98 in [75.69 mm]
Height 1.14 in [28.96 mm]
Weight 1.1 lbs [498.95 g]

Configuration

Input Connector N Female
Output Connectors N Female

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FMS0041

Environmental Specifications

Temperature

Operating Range

-25 to +75 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data

4 Way RF Power Combiner with N Female Connectors, 600 MHz to 6 GHz Frequency Range, 400 Watt Power Rating 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: [4 Way RF Power Combiner with N Female Connectors, 600 MHz to 6 GHz Frequency Range, 400 Watt Power Rating FMS0041](#)

URL: <https://www.fairviewmicrowave.com/4-way-power-combiner-type-n-broadband-6-ghz-0-watts-fms0041>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMS0041 CAD Drawing

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