

2 Way Power Divider SMA Interface from 4 GHz to 8 GHz Rated at 30 Watts

FMDV1045 is a passive 2 way RF Power Divider with 50 ohm SMA female connectors operating from 4 to 8 GHz, with a max input power of 30 watts. The FMDV1045 has less than 22 dB Isolation, 0.5 dB Maximum Insertion loss and a Max VSWR of 1.25:1; along with a phase balance of ± 3 degrees and an amplitude balance of ± 0.3 dB. The RF Divider operates in a temperature range from -45°C to 85°C and is rated for Humidity, Shock, Vibration, and Altitude. Power dividers have many applications and so perform many valuable functions within the RF/Microwave world. Examples are antenna beam forming, taps for cable distributed systems combining feeds to and from antennae.



Electrical Specifications

Design			Wilkinson	
Number of Output Ports			2	
Description	Min	Typ	Max	Units
Frequency Range	4		8	GHz
Impedance	50			Ohms
Input VSWR		1.2:1	1.25:1	
Insertion Loss		0.3	0.5	dB
Isolation	20	22		dB
Amplitude Balance		± 0.2	± 0.3	dB
Phase Balance		± 2	± 3	Degrees
Input Power (CW)			30	Watts
Reverse Power (CW)			2	Watts
Input Power (Peak)			300	Watts

Mechanical Specifications

Size	
Length	1.1 in [27.94 mm]
Width	0.39 in [9.91 mm]
Height	1.1 in [27.94 mm]
Weight	0.0485 lbs [22 g]
Finish	Gray
Housing Material and Plating	Aluminum
Configuration	
Package Type	Connectorized
Input Connector	SMA Female
Output Connectors	SMA Female

Environmental Specifications

Temperature	
Operating Range	-45 to $+85$ deg C
Storage Range	-55 to $+125$ deg C
Humidity	100% RH at 35°C , 95% RH at 40°C

Features:

- Ultra Wide Band Operation
- 30 watt CW Rating
- 4 to 8 GHz
- SMA Female Connector
- Meets Standards for Humidity, Shock, Vibration, Altitude

Applications:

- Communications Systems
- Amplifier Systems
- Amplifier Power Dividing
- Aerospace/Aviation
- Defense Applications

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Shock
Vibration
Altitude

20G for 11msec half sine wave, 3 axis both directions
25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
30,000 ft. (Epoxy Sealed Controlled environment)

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

Plotted and Other Data

Notes:

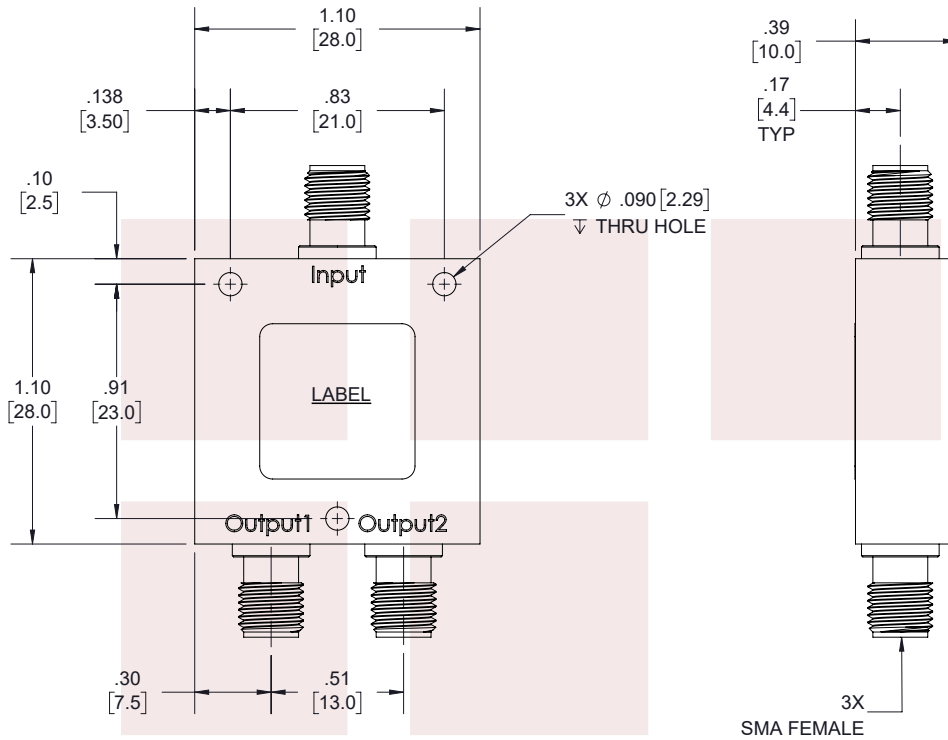
2 Way Power Divider SMA Interface from 4 GHz to 8 GHz Rated at 30 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 Way Power Divider SMA Interface from 4 GHz to 8 GHz Rated at 30 Watts FMDV1045](#)

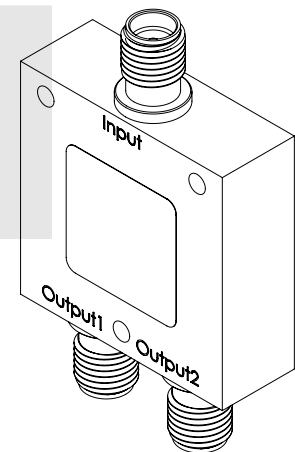
URL: <https://www.fairviewmicrowave.com/2-way-power-divider-sma-8-ghz-fmdv1045-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



3X
SMA FEMALE



LABEL:

FAIRVIEW MICROWAVE
FMDV1045
D/C: YYWW

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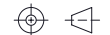
TITLE
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
		300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.Dang	ITEM NO. FMDV1045	REV A
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T-Rev.D