

2 Way Power Divider SMA Interface from 350 MHz to 6 GHz Rated at 30 Watts

FMDV1053 is a passive 2 way RF Power Divider with 50 ohm SMA female connectors operating from .35 to 6 GHz, with a max input power of 30 watts. The FMDV1053 has less than 20 dB Isolation, 0.8 dB Maximum Insertion loss and a Max VSWR of 1.4:1; along with a phase balance of ± 3 degrees and an amplitude balance of ± 0.2 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	0.35		6	GHz
Impedance		50		Ohms
Input VSWR		1.3:1	1.4:1	
Insertion Loss		0.6	0.8	dB
Isolation	18	20		dB
Amplitude Balance		± 0.1	± 0.2	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

1.81 in [45.97 mm]

Width

0.79 in [20.07 mm]

Height

7.64 in [194.06 mm]

Weight

0.1915 lbs [86.86 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
- 350 MHz to 6 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:

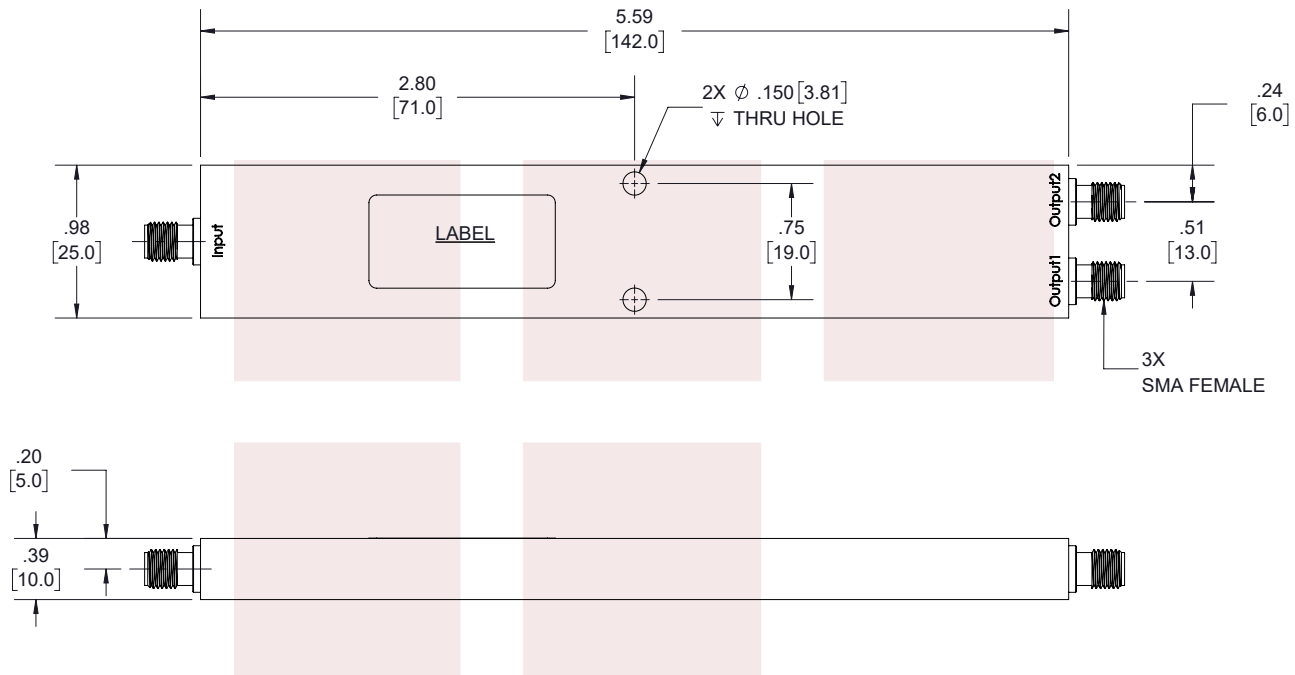
2 Way Power Divider SMA Interface from 350 MHz to 6 GHz Rated at 30 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [2 Way Power Divider SMA Interface from 350 MHz to 6 GHz Rated at 30 Watts FMDV1053](#)

URL: <https://www.fairviewmicrowave.com/2-way-power-divider-sma-6-ghz-fmdv1053-p.aspx>

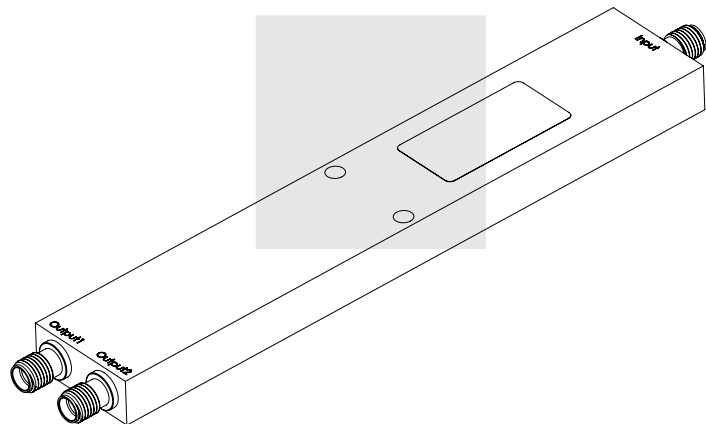
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	5/1/2020	S.PONG



LABEL:

FAIRVIEW MICROWAVE
FMDV1053
D/C: YYWW



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TITLE

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

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
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. FMDV1053	REV A
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T-Rev.D