

FMCP1136-40 DATA SHEET

N Directional Coupler 40 dB from 100 MHz to 400 MHz Rated to 500 Watts

Directional couplers are indispensable components for isolating, separating and combining signals. For example, they provide a simple way of sampling microwave signals. They also can make accurate attenuator measurements since reflections are eliminated. The FMCP1136-40 is a 40 dB directional coupler that operates from 100 to 400 MHz and can handle up to 500 Watts (CW) with 19 dB directivity minimum and 1.2:1 VSWR maximum. The package interface uses N female connectors.

The FMCP1136-40 is part of Fairview Microwave's family of directional/dual-directional couplers that offer coupling ratios up to 50 dB with excellent performance featuring high directivity, low insertion loss and VSWR. They are available in both narrow and broad bandwidths and can be used in a wide variety of applications including signal sampling, VSWR measurements, power combining and distribution.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	100		400	MHz
Impedance		50		Ohms
Coupling	38	40	42	dB
Freq. Sensitivity		±0.8	±1	dB
Insertion Loss		0.15	0.25	dB
Directivity	19	22		dB
Main Line VSWR		1.1:1	1.2:1	
Sec. Line VSWR		1.12:1	1.2:1	
Input Power (CW)			500	Watts
Input Power (Peak) 10% Duty Cycle, 1us	PW		3	kWatts

Mechanical Specifications

Size

Length12.4215 in [315.51 mm]Width/Dia.1.521 in [38.63 mm]Height1.053 in [26.75 mm]Weight1.4 lbs [635.03 g]

Housing Material and Plating Aluminum

Configuration

Input Connector N Female
Output Connector N Female
Coupled Connectors N 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



Features:

- Directional Coupler
- N Female Connectorized Design
- 100 to 400 MHz Frequency Range
- Coupling 40±2 dB
- Directivity > 19 dB
- VSWR < 1.2:1
- Max Power 500 Watts (CW)

Applications:

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

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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.

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

N Directional Coupler 40 dB from 100 MHz to 400 MHz Rated to 500 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: N Directional Coupler 40 dB from 100 MHz to 400 MHz Rated to 500 Watts FMCP1136-40

URL: https://www.fairviewmicrowave.com/directional-standard-20-db-100-ghz-to-400-ghz-fmcp1136-40-p.aspx

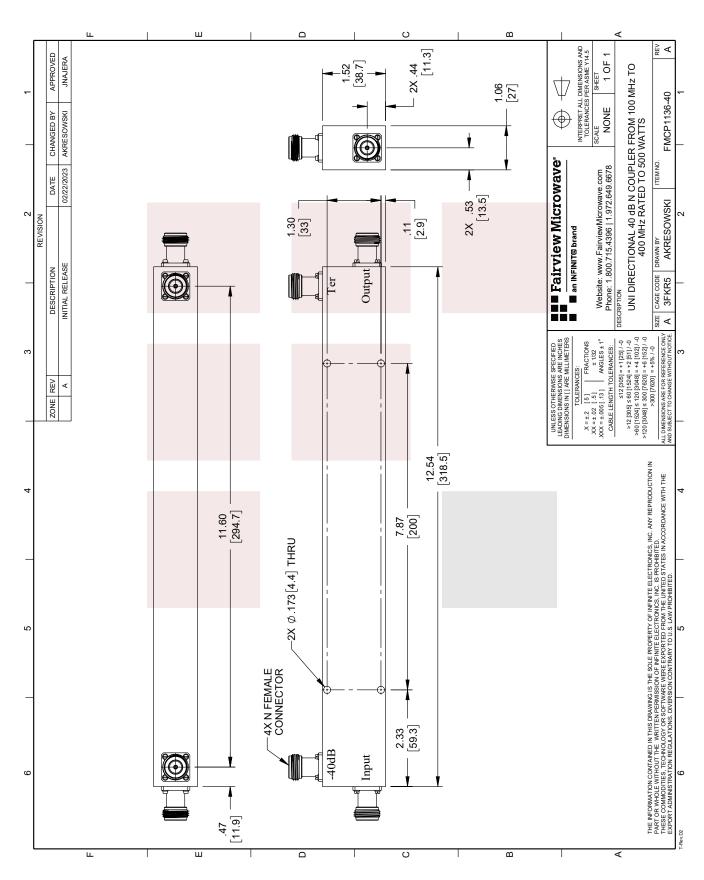
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