

A/B Coaxial DC to 1,000 MHz Electro-Mechanical Relay Switch, 5W, 12V, N



FMSW1002

Features

- A/B Coaxial Relay Switch
- DC to 1 GHz
- Insertion Loss 0.7 dB max
- Isolation 50 dB min
- Max Power 5 Watts (CW)

Applications

- Test & Measurement
- Communications System
- Instrumentation

Description

The FMSW1002 is an A/B coaxial relay switch that operates from DC to 1 GHz and has a rating of 5 Watts input power (CW). Electrical performance includes 0.7 dB max insertion loss, 50 dB min isolation with +12 Vdc operating voltage. Performance is guaranteed over -20°C to +60°C. The package interface uses solder terminals and N female connectors.

Electrical Specifications (TA = +25°C, DC Voltage = 12 Vdc)

Switch Type: A/B Coaxial
Switching Sequence: Break Before Make

Description	Min	Typ	Max	Units
Frequency Range	DC		1,000	MHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Volts			45	mA
VSWR		1.2:1	1.6:1	
Insertion Loss		0.3	0.7	dB
Isolation	50	62		dB
Input Power (CW)			5	Watts
Switching Time			15	ms

Electrical Specification Notes:

- Max input power rated for common to switched port.
- Max power of 0.5W (CW) for switched to common port.

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Mechanical Specifications

Size	
Length	2.88 in [73.15 mm]
Width/Diameter	1.5 in [38.1 mm]
Height	0.88 in [22.35 mm]
Weight	0.378 lbs [171.46 g]
Package Type	Connectorized
Connectors	
RF Connector Type	N Female
Control Connector	Solder Pin

Environmental Specifications

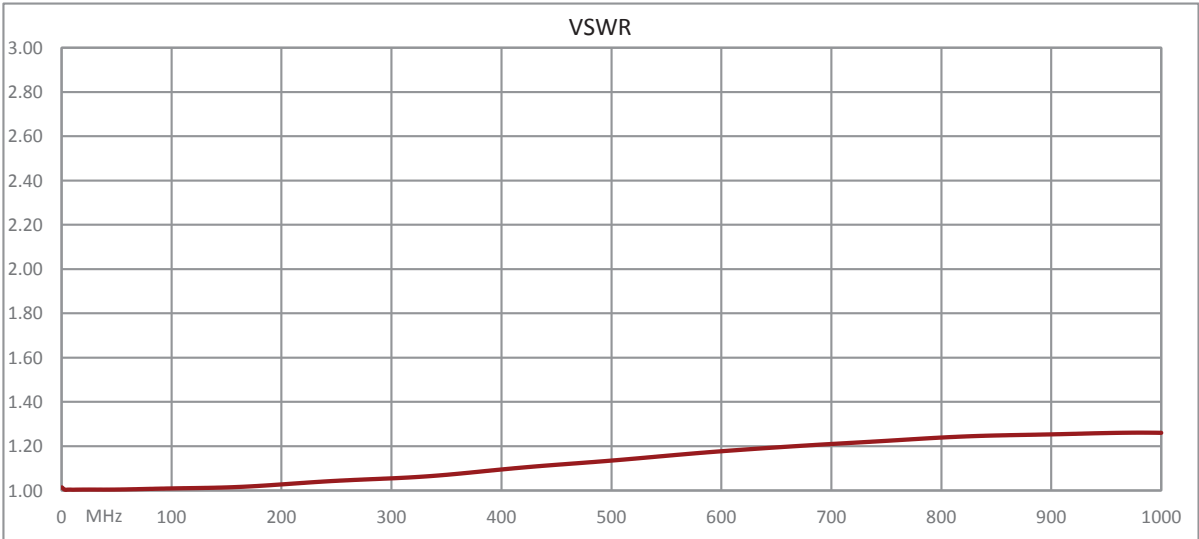
Temperature	
Operating Range	-20 to +60 deg C
Storage Range	-30 to +100 deg C
Humidity	95% relative humidity max

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

Plotted and Other Data

Notes:

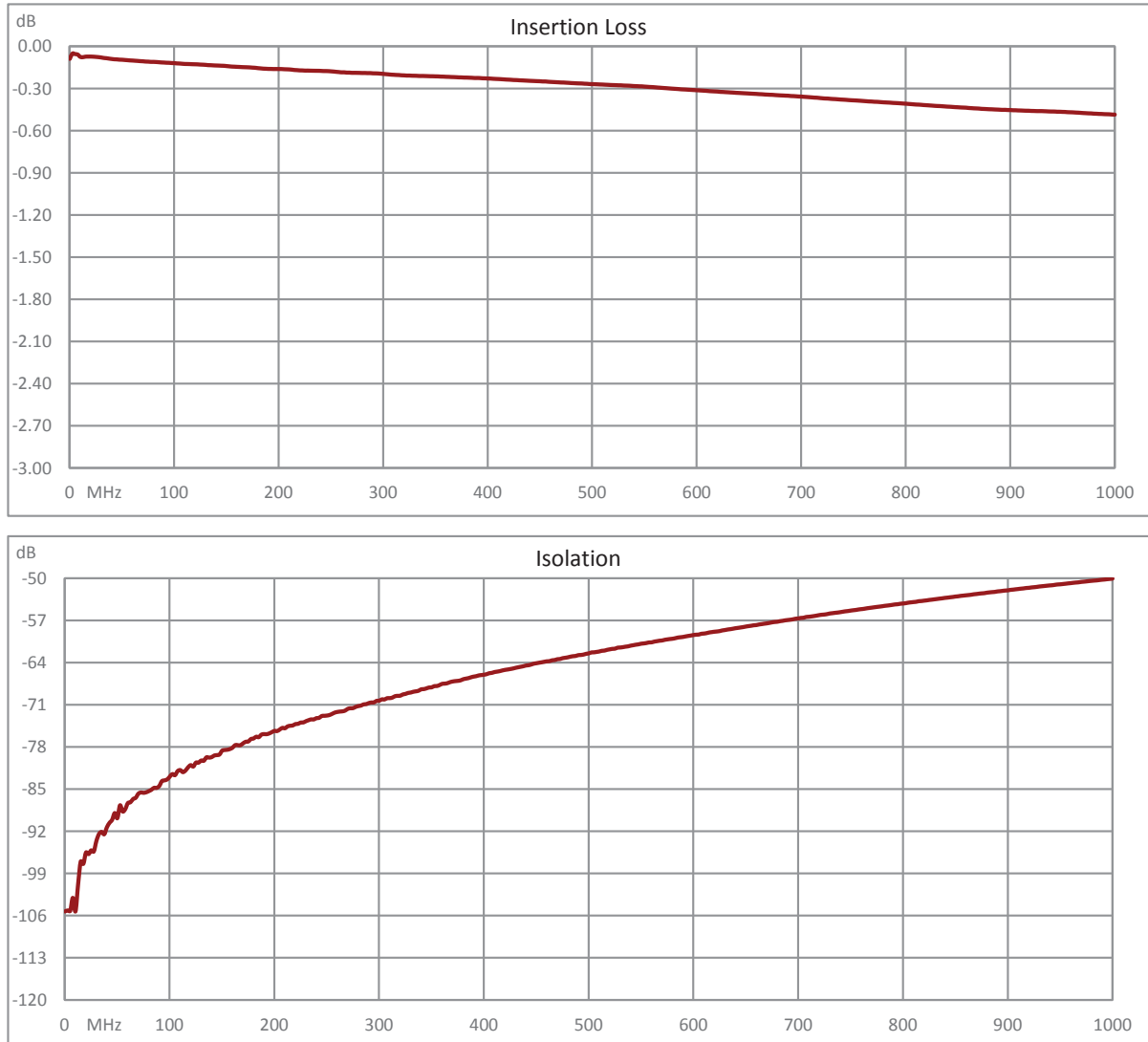
Typical Performance Data



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A/B Coaxial DC to 1,000 MHz Electro-Mechanical Relay Switch, 5W, 12V, N 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.

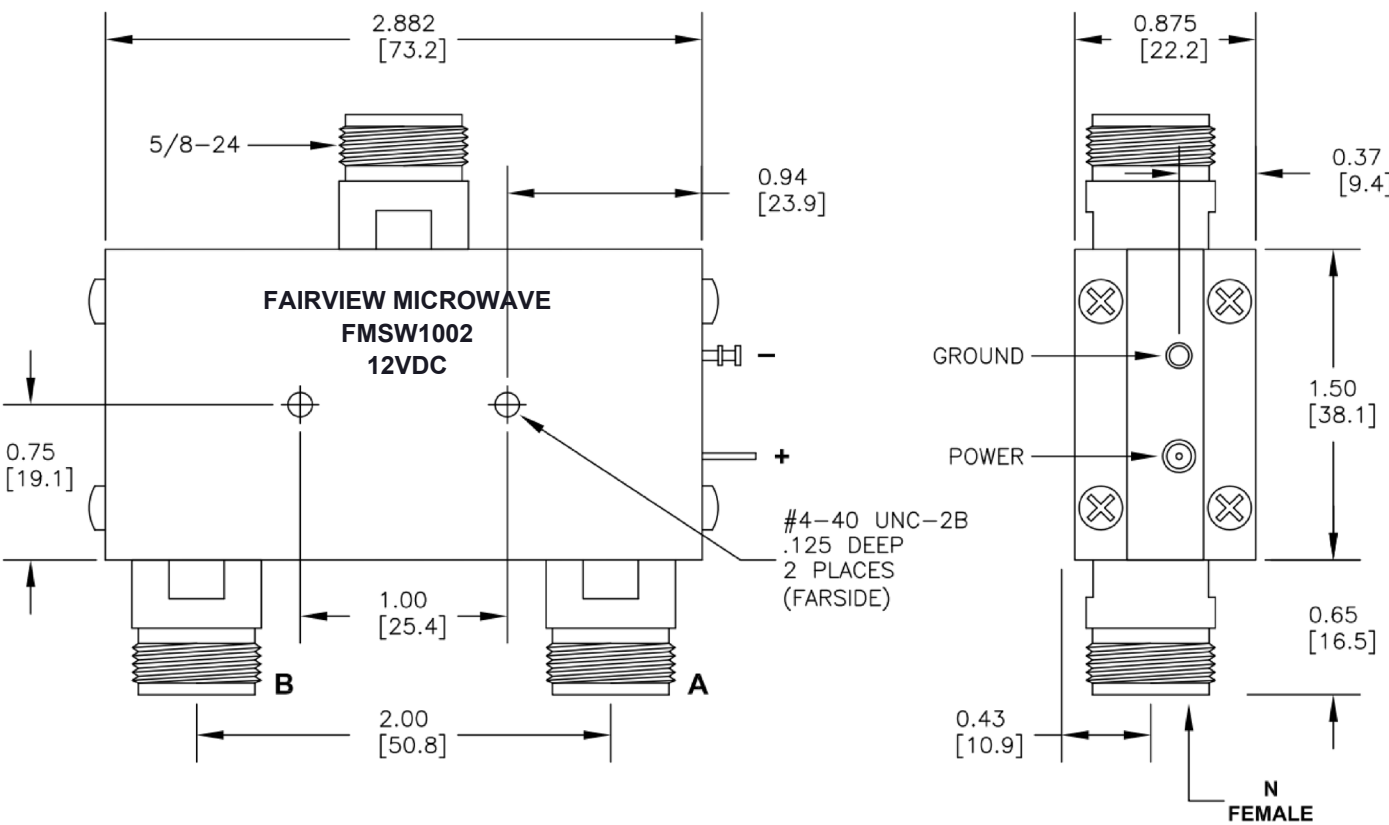
For additional information on this product, please click the following link: [A/B Coaxial DC to 1,000 MHz Electro-Mechanical Relay Switch, 5W, 12V, N FMSW1002](#)

URL: <https://www.fairviewmicrowave.com/a-b-coaxial-dc-to-1000-mhz-electro-mechanical-relay-switch-fmsw1002-p.aspx>

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FMSW1002 CAD Drawing

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ACTIVE PORT	CONNECTED GROUND	DC POWER
A	YES	OFF
B	YES	ON

STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

<div><div></div><div>Fairview Microwave</div><div>RF COMPONENTS ON DEMAND. <i>Done!</i></div></div>	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].	
	DWG NO FMSW1002	CAGE CODE 3FKR5
	CAD FILE 05/21/18	SHEET 1 OF 1
SCALE N/A		SIZE A
7361		