

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

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 and the switch assembly is RoHS compliant. The package interface uses solder terminals and N female connectors.



Electrical Specifications

Switch Type		A/B Coaxial		
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			1.6:1	
Insertion Loss			0.7	dB
Isolation	50			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.

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

Plotted and Other Data

Notes:

Features:

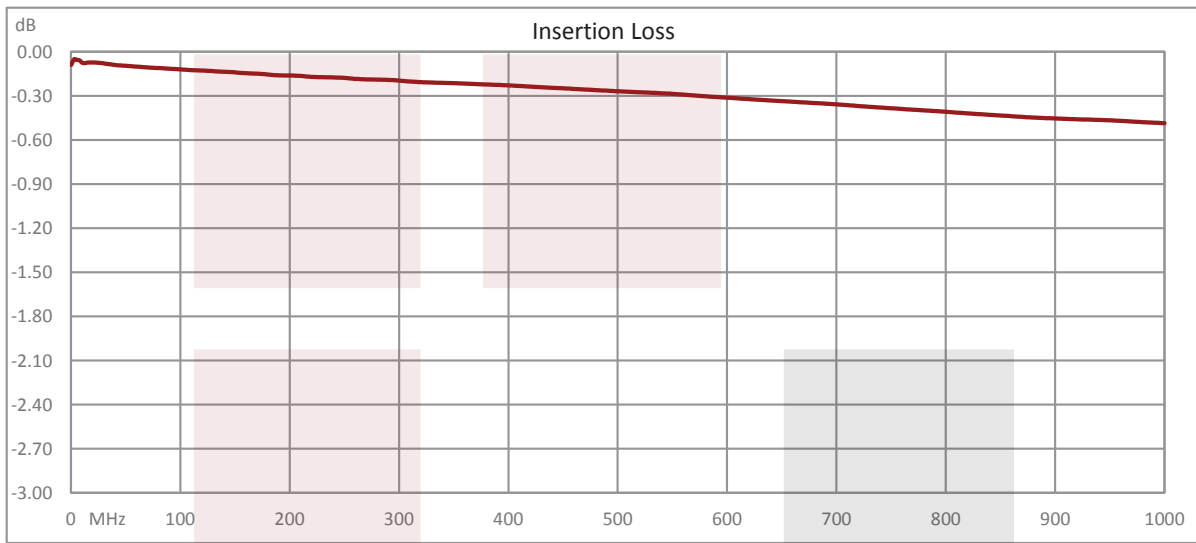
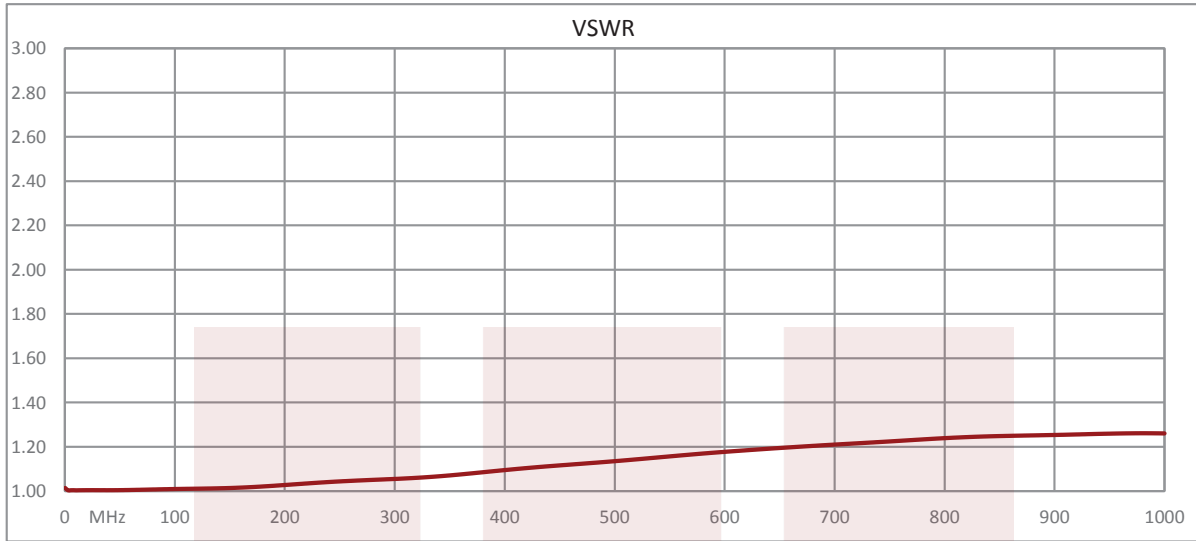
- A/B Coaxial Relay Switch
- DC to 1 GHz
- Insertion Loss 0.7 dB max
- Isolation 50 dB min
- Max Power 5 Watts (CW)

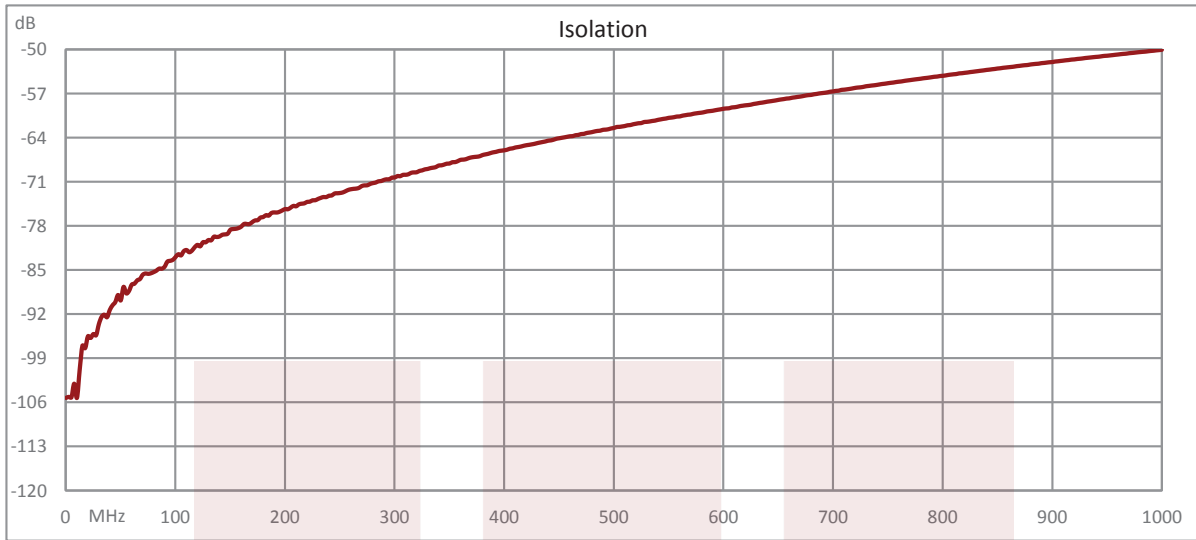
Applications:

- Test & Measurement
- Communications System
- Instrumentation

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Typical Performance Data



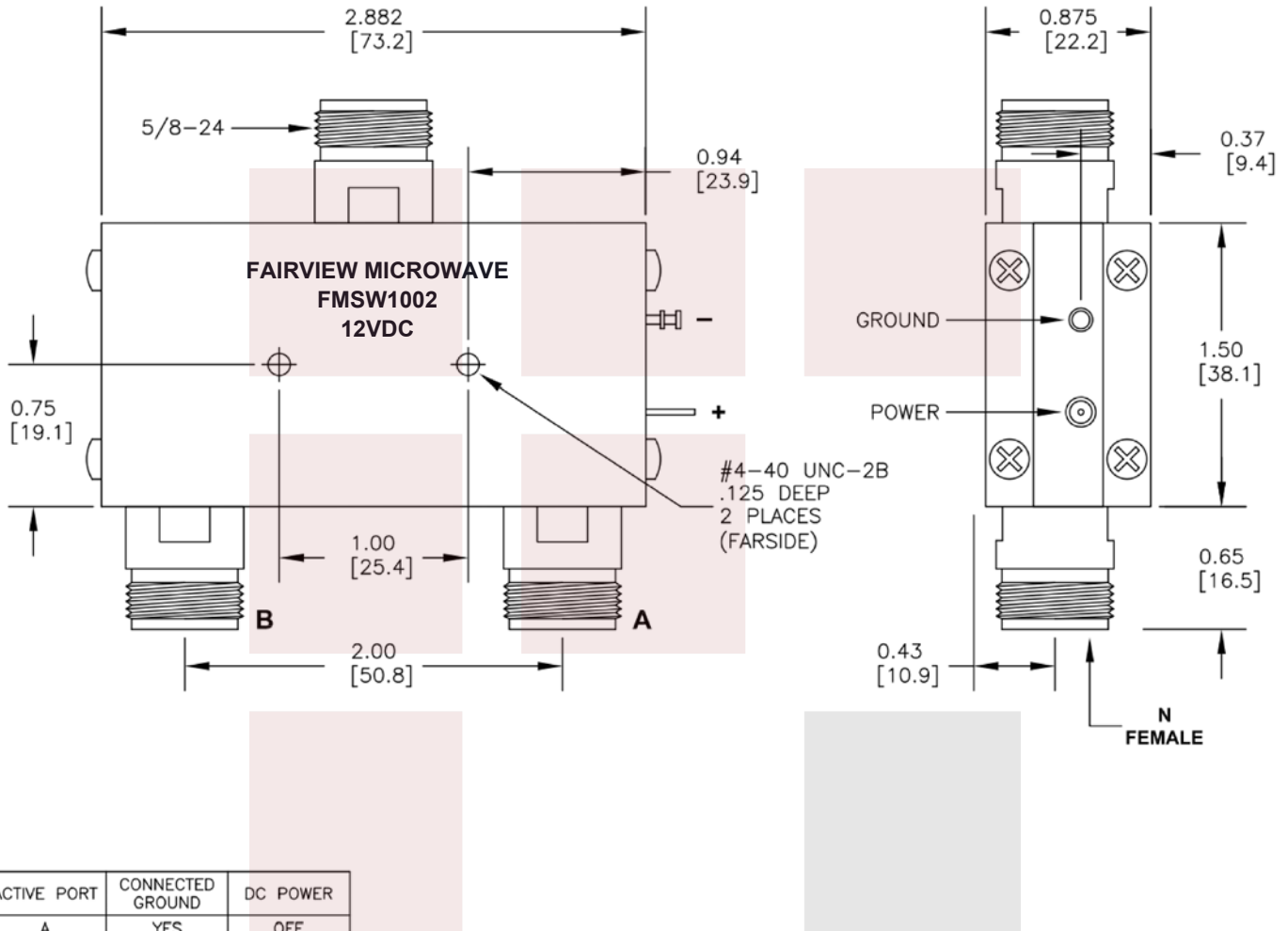


A/B Coaxial DC to 1,000 MHz Electro-Mechanical Relay Switch, 5W, 12V, N from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

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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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

		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].						
TITLE A/B Coaxial DC to 1,000 MHz Electro-Mechanical Relay Switch, 5W, 12V, N		DWG NO FMSW1002		CAGE CODE 3FKR5				
CAD FILE	05/21/18	SHEET	1 OF 1	SCALE	N/A	SIZE	A	7361