

Manual SPDT Toggle Switch from DC to 40 GHz, 2.92mm Female, and Rated to 20 Watts



FMSM1004

Features

- SP2T
- Manual Toggle Switch
- 40 dB min Isolation
- DC to 40 GHz
- Low VSWR 1.9:1 Max
- 2.92mm Female Connectors

Applications

- Test and Measurements
- Redundancy Systems
- Manual Switching between antenna bands (special ops vehicles)
- OEM Front Panel Control

Description

FMSM1004 is a manual single pole double throw (SP2T) RF coaxial Switch, with a manual toggle actuator configuration. This unit operates across the DC to 40 GHz Frequency Range with a max VSWR of 1.9:1 and a maximum Insertion Loss of 0.9 dB. It features a housing with SMA female connectors and a minimum Isolation of 40 dB.

Electrical Specifications

Design	SPDT
Actuator Type	Manual
Selector Type	Toggle
RF Connector Type	2.92mm Female
RF Connector Specs.	MIL-C-39012

Description	Min	Typ	Max	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
VSWR			1.9:1	
Insertion Loss			0.9	
Isolation	40			dB
Input Power (CW)			21	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 6	6 - 12	12 - 18	18 - 26.5	26.5 - 40	GHz
VSWR, Max	1.3:1	1.4:1	1.5:1	1.7:1	1.9:1	
IL, Max	0.2	0.4	0.5	0.7	0.9	dB
Isolation, Min	70	60	60	40	40	dB
Power In, Max (CW)	60	40	30	28	21	Watts

Mechanical Specifications

Size	
Length	0.99 in [25.15 mm]
Width/Diameter	1.5 in [38.1 mm]
Height	0.5 in [12.7 mm]

Manual SPDT Toggle Switch from DC to 40 GHz, 2.92mm Female, and Rated to 20 Watts



FMSM1004

Weight	0.01 lbs [4.54 g]
Connectors	
RF Connector Type	2.92mm Female
RF Connector Specs.	MIL-C-39012

Environmental Specifications

Temperature

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

Plotted and Other Data

Notes:

Manual SPDT Toggle Switch from DC to 40 GHz, 2.92mm Female, and Rated to 20 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: [Manual SPDT Toggle Switch from DC to 40 GHz, 2.92mm Female, and Rated to 20 Watts FMSM1004](#)

URL: <https://www.fairviewmicrowave.com/0-port-2.92mm-manual-coaxial-switch-surge-protection-dc-40-ghz-0watts-fmsm1004-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FMSM1004 CAD Drawing

Manual SPDT Toggle Switch from DC to 40 GHz, 2.92mm Female, and Rated to 20 Watts

