

SP4T Electro-Mechanical Relay Switch From DC to 22 GHz, 20 Watts with Indicators, TTL, SMA

FMSW6303 is a Single Pole Four Throw Absorptive Switch that operates from DC to 22 GHz. The switch has a normally open actuator and an indicator and 1M life cycles. The switch has an operating voltage of 12 Volts and has TTL control.

Electrical Specifications

Switch Type	SP4T, Absorptive
Actuator Type	Normally Open
Switching Sequence	Break Before Make
Actuator Options	Indicators, TTL Logic
TTL Control	on: "High" off: "Low"

Description	Min	Typ	Max	Units
Frequency Range	DC		22	GHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Volts		380		mA
VSWR			1.6:1	
Insertion Loss			0.6	dB
Isolation	60			dB
Input Power (CW) 22 GHz			20	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 8	8 to 12	12 to 18	18 to 22	GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	
Insertion Loss, Max	0.3	0.35	0.4	0.5	0.6	dB
Isolation, Min	75	70	65	60	60	dB

Mechanical Specifications

Size	
Length	2.13 in [54.1 mm]
Width/Diameter	2.13 in [54.1 mm]
Height	2.58 in [65.53 mm]
Weight	0.625 lbs [283.5 g]
Body Material and Plating	Aluminum, Nickel
Package Type	Connectorized Module
Operating Life	1,000,000 Cycles
Switching Time	15 ms Max

Connectors

RF Connector Type	SMA Female
RF Connector Contact Material & Plating	Beryllium Copper, Gold
RF Connector Body Plating	Passivated Stainless Steel
Control Connector	Solder Pin



Features:

- SP4T Absorptive Switch
- DC to 22 GHz Operating Frequency Range
- 1 M Cycles min

Applications:

- Test & Measurement
- Communications System
- Instrumentation

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Environmental Specifications

Temperature

Operating Range

ESD Sensitivity

-25 to +65 deg C

ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.



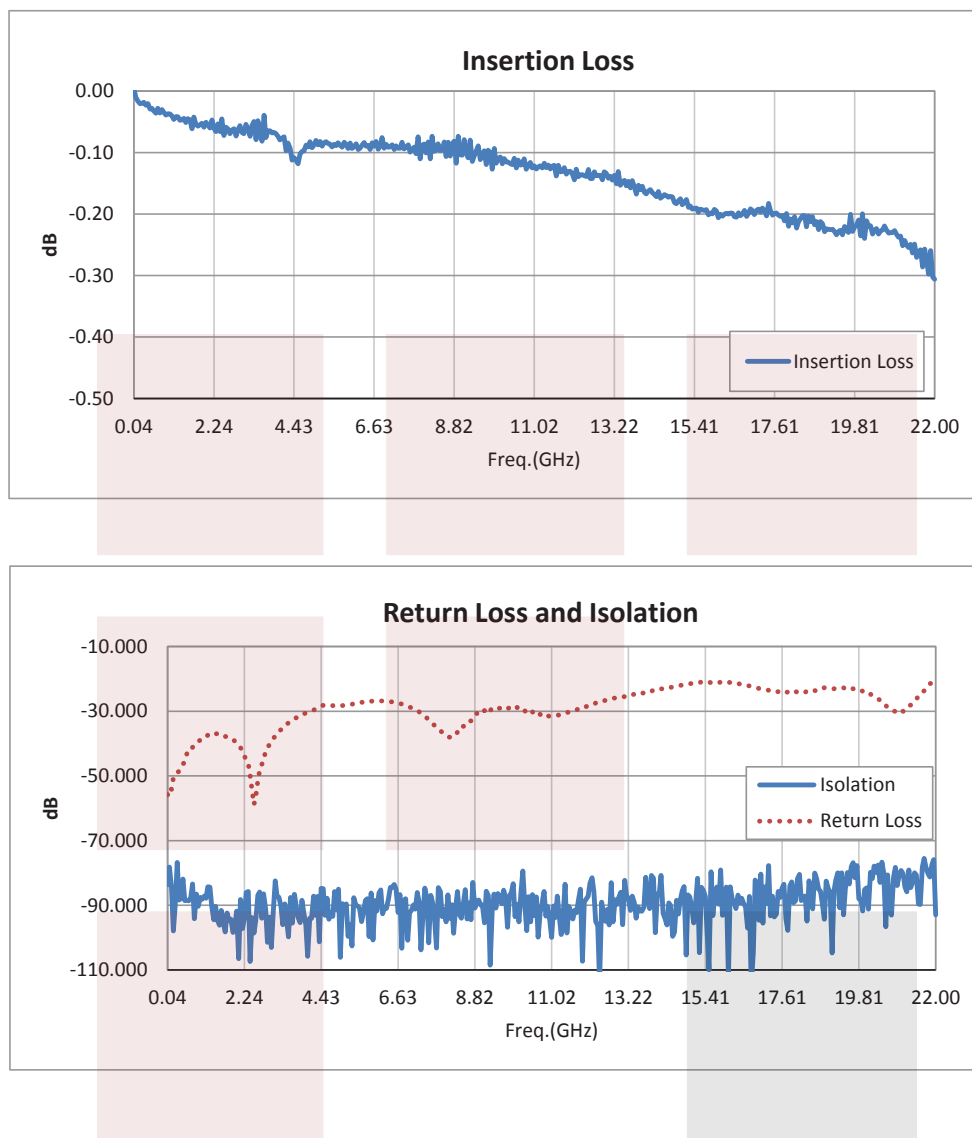
Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant

Plotted and Other Data

Notes:

Typical Performance Data



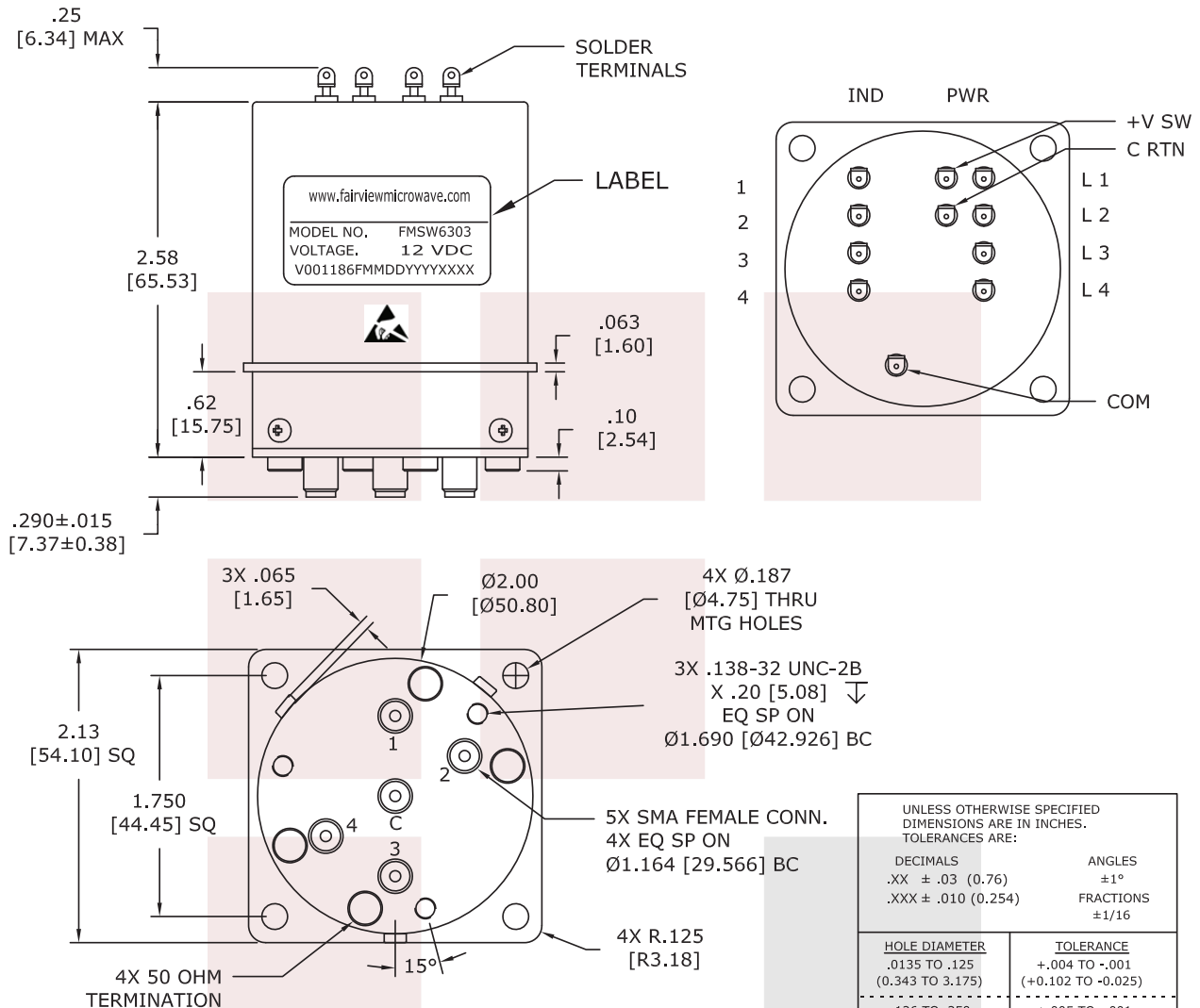
SP4T Electro-Mechanical Relay Switch From DC to 22 GHz, 20 Watts with Indicators, TTL, SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SP4T Electro-Mechanical Relay Switch From DC to 22 GHz, 20 Watts with Indicators, TTL, SMA FMSW6303](#)

URL: <http://www.fairviewmicrowave.com/sma-electro-mechanical-relay-switch-sp4t-22-ghz-20-watts-fmsw6303-p.aspx>

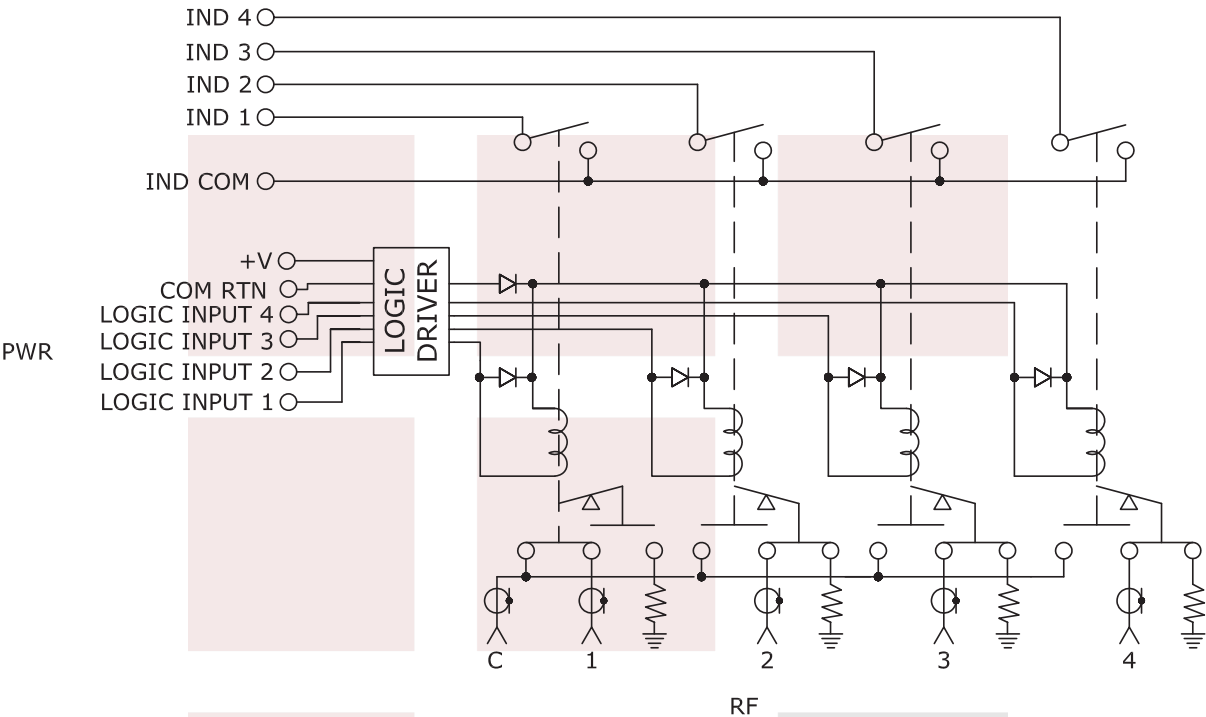
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* THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

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TITLE SP4T Electro-Mechanical Relay Switch From DC to 22 GHz, 20 Watts with Indicators, TTL, SMA					DWG NO FMSW6303		CAGE CODE 3FKR5		
CAD FILE 090815		SHEET		SCALE N/A		SIZE A		2233	



SCHEMATIC NORMALLY OPEN SHOWN IN DE-ENERGIZED POSITION

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