

SPDT Failsafe Electro-Mechanical Relay Switch DC to 10 GHz , Up To 600W, 12V, 2M Lifecycles, N

The FMSW6426 is a Single Pole Double Throw (SPDT) electromechanical relay switch that operates across a wide frequency range of DC to 12 GHz and can handle up to 600 Watts of CW input power in a break before make condition. The 50 Ohm design features a Failsafe Actuator and is rated for 2 million lifecycles. Impressive typical performance includes 0.4 dB insertion loss and isolation greater than 90 dB. This switch requires +12Vdc bias voltage and operates over a temperature range of -25°C to +65°C. The rugged and compact package assembly supports N Type female connectors and solder terminal pins for DC control. And for highly reliable operation, the model is guaranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

Electrical Specifications

Switch Type Actuator Type Switching Sequence SPDT Failsafe Break before Make

Description	Min	Тур	Мах	Units
Frequency Range	DC		10	GHz
Impedance		50		Ohms
Operating Voltage	11	12	13	Volts
Actuating Current @ 12 Vo At +20°C	lts		450	mA
VSWR		1.25:1	1.4:1	
Insertion Loss		0.3	0.5	dB
Isolation	70	80		dB
Input Power (CW)			600	Watts
Switching Time			20	ms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 1	1 - 4	4 - 8	8 - 10		GHz
VSWR, Max	1.25:1	1.3:1	1.4:1	1.4:1		
Insertion Loss, Max	0.3	0.4	0.4	0.5		dB
Isolation, Min	90	80	80	70		dB

Mechanical Specifications

Size

Body Material and Plating Package Type

Operating Life

Connectors RF Connector Type Control Connector Aluminum Connectorized

2,000,000 Cycles

N Female Solder Terminals

FMSW6426 DATA SHEET



Features:

- Single Pole Double Throw Electromechanical Relay Switch
- DC to 12 GHz Frequency Range
- Failsafe Actuator
- 2M Lifecycle Rating
- Insertion Loss 0.4 dB typ
- Isolation > 90 dB typ
- VSWR 1.4:1 typ
- +12 Volt DC Bias
- Solder Terminal Pins for DC Control
- N Type Female Connectors
- -25°C to +65°C Operating Temperature
- Up to 600 Watt Average
 Power Handling
- 50 Ohm Design
- Hot Switching Capability
 Consult Factory
- S-Parameter Data available upon request
- Rugged Design meets Mil-STD-202 Test Conditions

Applications:

- Aerospace & Defense
- Test & Measurement
- Microwave Radio Systems
- Military & Commercial Communication Systems
- Research & Development
- SATCOM
- Wireless Communications
- Enterprise
- IoT

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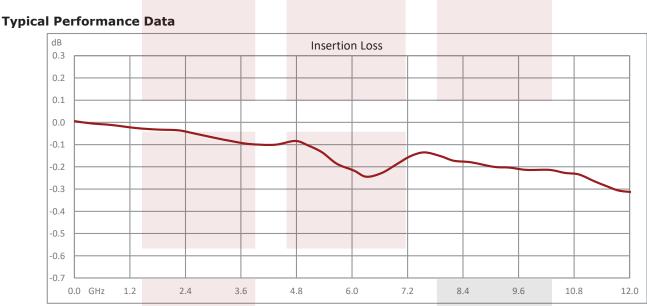
Environmental Specifications

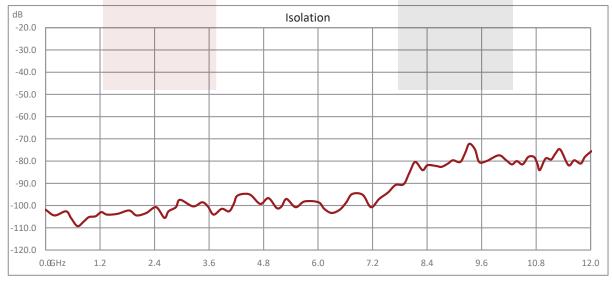
Temperature	
Operating Range	-25 to +65 deg C
Storage Range	-55 to +100 deg C
Humidity	Moisture Resistance
Shock	MIL-STD-202 Method 213, Cond. D 500G Non Operating
Vibration	MIL-STD-202 Method 204, Cond. D 10G RMS Non Operating

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

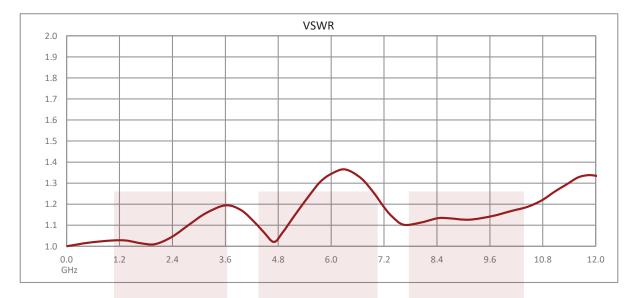




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For additional information on this product, please click the following link: SPDT Failsafe Electro-Mechanical Relay Switch DC to 10 GHz , Up To 600W, 12V, 2M Lifecycles, N FMSW6426

URL: https://www.fairviewmicrowave.com/spdt-failsafe-10-ghz-electro-mechanical-relay-switch-600w-12v-tnc-fmsw6426-p.aspx

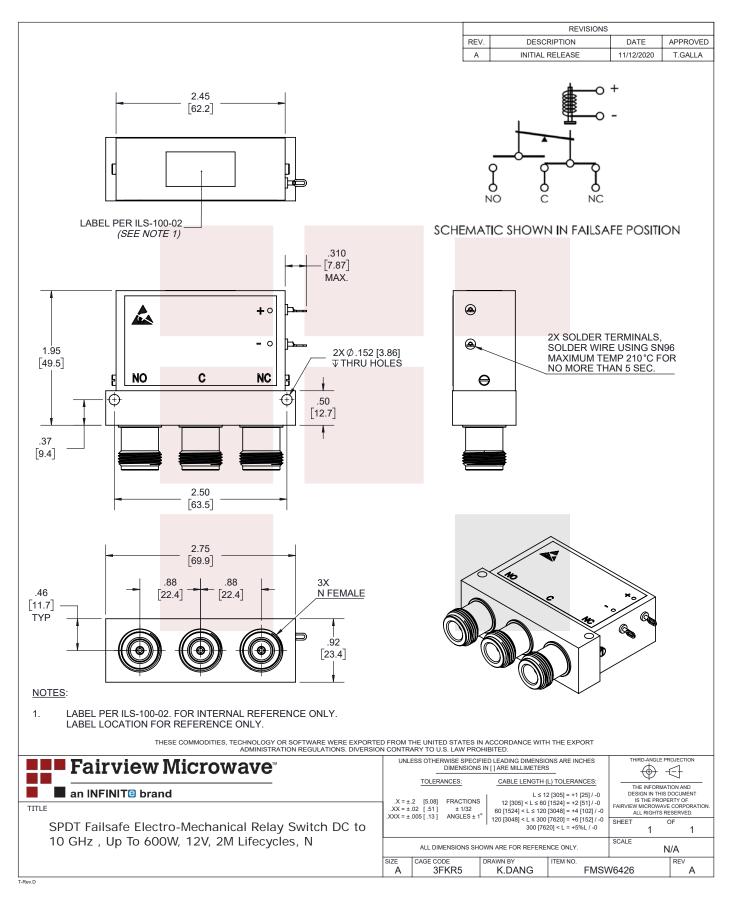
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