

Transfer Electromechanical Relay Failsafe Switch DC to 12.4 GHz, 2M Lifecycles, TNC, 160 Watts, 12V, Indicators, TTL, Diodes, Solder Pins

The FMSW6511 is a Transfer electromechanical relay switch that operates across a wide frequency range of DC to 12 GHz and can handle up to 160W of average power in a break before make condition. The design is rated for 2 million lifecycles and features a Failsafe Actuator. Additional features include TTL control logic, suppression diodes which limit voltage spikes or reverse current, and indicators to monitor the switch position. Impressive typical performance includes 0.2 dB insertion loss and isolation greater than 80 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 TNC female connectors and Solder Pins for DC command control functions. And for highly reliable operation, the model is guaranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

Electrical Specification Switch Type Actuator Type Actuator Options TTL Control	ns (TA = +25	Transfer Failsafe Indicator on: 2.4 t	age = +12 Vdc) rs, TTL Logic to 5.5 Volts 0.8 Volts	
Description	Min	Тур	Мах	Units
Frequency Range	DC		12.4	GHz
Operating Voltage		+12		Volts
Actuating Current @ +12 \		380	mA	
VSWR		1.3:1	1.7:1	
Insertion Loss		0.2	0.6	dB
Isolation	60	80		dB
Input Power (CW) (at 12.4 GHz)			50	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 2	2 - 4	4 - 8	8 - 12		GHz
VSWR, Max	1.2:1	1.3:1	1.5:1	1.7:1		
Insertion Loss, Max	0.2	0.4	0.5	0.6		dB
Isolation, Min	80	80	70	60		dB

Mechanical Specifications

Size Length Width/Diameter Height Weight

2.52 in [64.01 mm] 3.12 in [79.25 mm] 1.75 in [44.45 mm] 0.4 lbs [181.44 g]

FMSW6511 DATA SHEET



Features:

- Transfer Electromechanical Relay Switch
- DC to 12 GHz Frequency Range
- Failsafe Actuator
- TTL Logic Control
- Suppression Diodes
- Indicators
- 2M Lifecycle Rating
- Insertion Loss 0.2 dB typ
- Isolation > 80 dB typ
- VSWR as low as 1.25:1 max
- +28 Volt DC Bias
- Solder Terminal Pins for DC Command Control
- TNC Female Connectors
- -25°C to +65°C Operating Temperature
- Up to 160 Watt Average Power Handling
- 50 Ohm Design
- Hot Switching Capability
- Consult FactoryS-Parameter Data
- available upon requestRugged 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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Connectors				
RF Connector Type				

TNC Female

Environmental Specifications

Operating Range	-25 to +65 deg C
Storage Range	-55 to +100 deg C
Shock	MIL-STD-202 Method 213, Condition D, 500G (non oper)

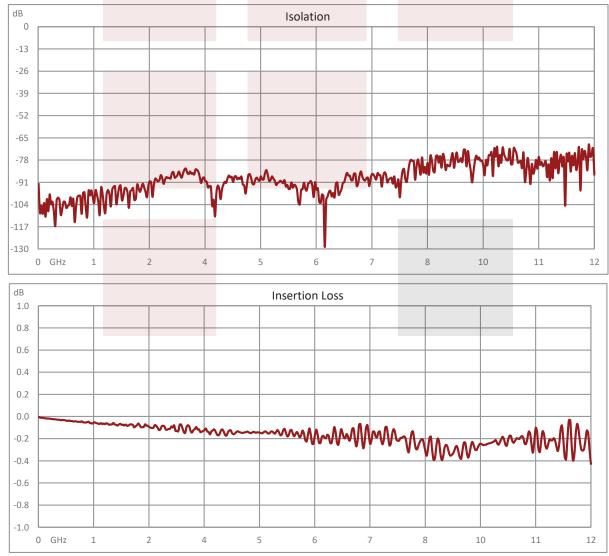
Vibration MIL-STD-202 Method 204, Condition D, 10G RMS (non oper)

Compliance Certifications (see product page for current document)

Plotted and Other Data

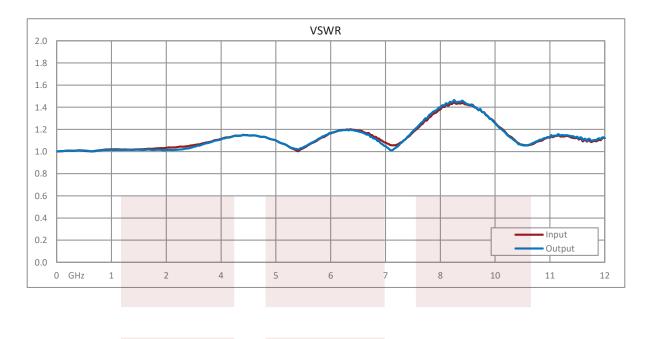
Notes:

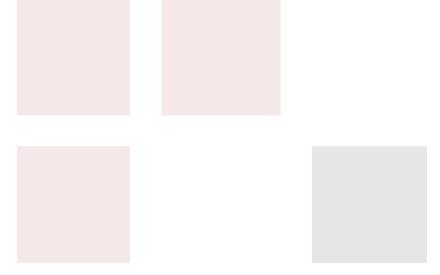
Typical Performance Data







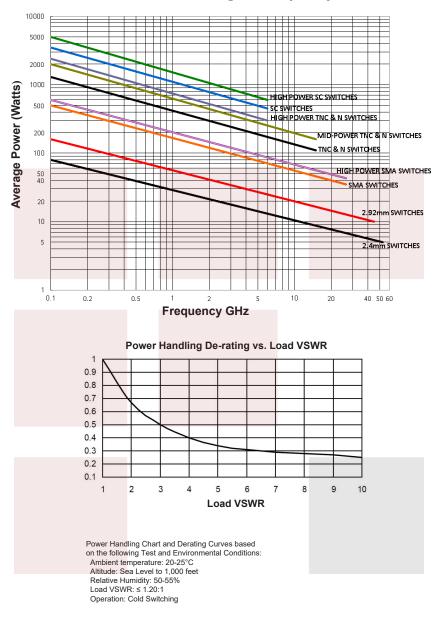








Power Handling vs. Frequency



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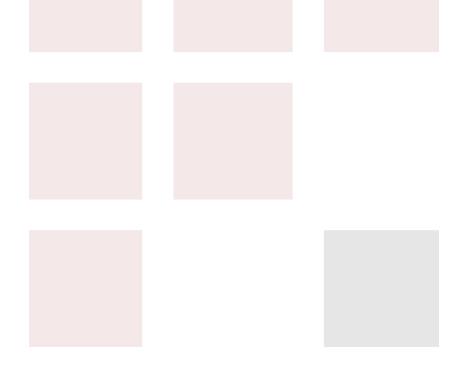


Transfer Electromechanical Relay Failsafe Switch DC to 12.4 GHz, 2M Lifecycles, TNC, 160 Watts, 12V, Indicators, TTL, Diodes, Solder Pins from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Transfer Electromechanical Relay Failsafe Switch DC to 12.4 GHz, 2M Lifecycles, TNC, 160 Watts, 12V, Indicators, TTL, Diodes, Solder Pins FMSW6511

URL: https://www.fairviewmicrowave.com/transfer-failsafe-12.4-ghz-electro-mechanical-relay-switch-indicators-50w-12vtnc-fmsw6511-p.aspx

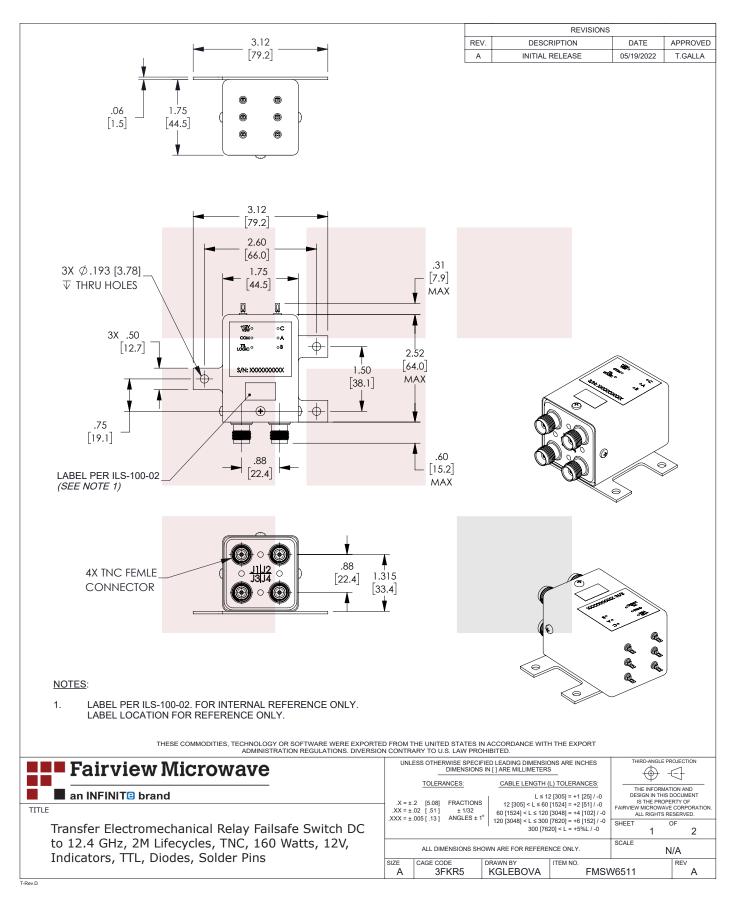
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