



# Transfer Failsafe Electro-Mechanical Relay Switch DC to 18 GHz , 90W, 28V, 2M Lifecycles, SMA

The FMSW6433 is a Transfer electromechanical relay switch that operates across a wide frequency range of DC to 18 GHz and can handle up to 90 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 0.2 dB insertion loss and isolation greater than 70 dB. This switch requires +28Vdc bias voltage and operates over a temperature range of -25°C to +65°C. The rugged and compact package assembly supports SMA 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

Transfer Failsafe

Break before Make

Description	Min	Тур	Max	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Operating Voltage	26	28	30	Volts
Actuating Current @ 28 Vo At +20°C	Its		400	mA
VSWR		1.2:1	1.4:1	
Insertion Loss		0.3	0.5	dB
Isolation	60	70		dB
Input Power (CW)			90	Watts
Switching Time			15	ms

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 6	6 - 12	12 - 18			GHz
VSWR, Max	1.2:1	1.3:1	1.4:1			
Insertion Loss, Max	0.2	0.3	0.5			dB
Isolation, Min	70	60	60			dB

## **Mechanical Specifications**

## Size

Body Material and Plating Package Type Operating Life Aluminum Connectorized

2,000,000 Cycles

**Connectors** 

RF Connector Type Control Connector

SMA Female Solder Terminals



## Features:

- Transfer Electromechanical Relay Switch
- DC to 18 GHz Frequency Range
- Failsafe Actuator
- 2M Lifecycle Rating
- Insertion Loss 0.2 dB typ
- Isolation > 70 dB typ
- VSWR 1.2:1 typ
- +28 Volt DC Bias
- Solder Terminal Pins for DC Control
- SMA Female Connectors
- -25°C to +65°C Operating Temperature
- Up to 90 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** 

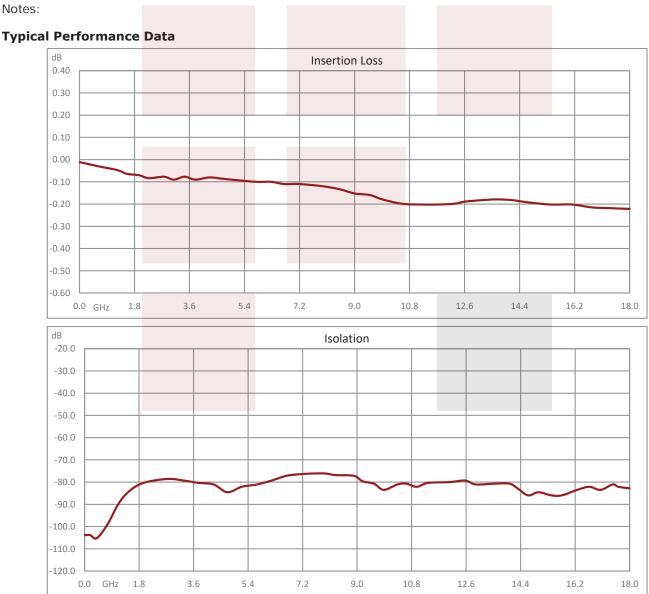
Operating Range -25 to +70 deg CStorage Range -55 to +100 deg C

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

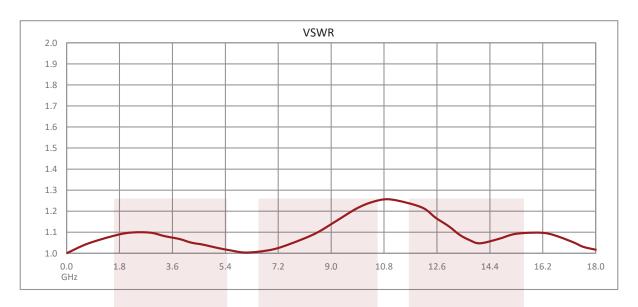
## **Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**









Transfer Failsafe Electro-Mechanical Relay Switch DC to 18 GHz , 90W, 28V, 2M Lifecycles, 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Transfer Failsafe Electro-Mechanical Relay Switch DC to 18 GHz , 90W, 28V, 2M Lifecycles, SMA FMSW6433

URL: https://www.fairviewmicrowave.com/transfer-failsafe-26.5-ghz-electro-mechanical-relay-switch-90w-28v-sma-fm-sw6433-p.aspx

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