

FMSW6432 DATA SHEET

Transfer Failsafe Electro-Mechanical Relay Switch DC to 40 GHz , Up To 10W, 12V, 2M Lifecycles, 2.92mm

The FMSW6432 is a Transfer electromechanical relay switch that operates across a wide frequency range of DC to 40 GHz and can handle up to 10 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 0.35 dB insertion loss and 80 dB isolation. 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 2.92mm 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	Тур Мах	
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Operating Voltage	11	12	13	Volts
Actuating Current @ 12 Vo	lts		800	mA
VSWR		1.4:1	1.7:1	
Insertion Loss		0.35	0.6	dB
Isolation	50	80		dB
Input Power (CW)			90	Watts
Switching Time			20	ms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 6	6 - 12	12 - 18	18 - 33	33 - 40	GHz
VSWR, Max	1.15:1	1.2:1	1.25:1	2:1	2.5:1	
Insertion Loss, Max	0.15	0.25	0.35	1	1.35	dB
Isolation, Min	70	70	65	50	50	dB

Mechanical Specifications

Size

Body Material and Plating Aluminum
Package Type Connectorized
Operating Life 2,000,000 Cycles

Connectors

RF Connector Type 2.92mm Female Control Connector Solder Terminals



Features:

- Transfer Electromechanical Relay Switch
- DC to 40 GHz Frequency Range
- Failsafe Actuator
- 2M Lifecycle Rating
- Insertion Loss 0.35 dB typ
- Isolation 80 dB typ
- VSWR 1.4:1 typ
- +12 Volt DC Bias
- Solder Terminal Pins for DC Control
- 2.92mm Female Connectors
- -25°C to +65°C Operating Temperature
- Up to 10 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

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056

Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Environmental Specifications

Temperature

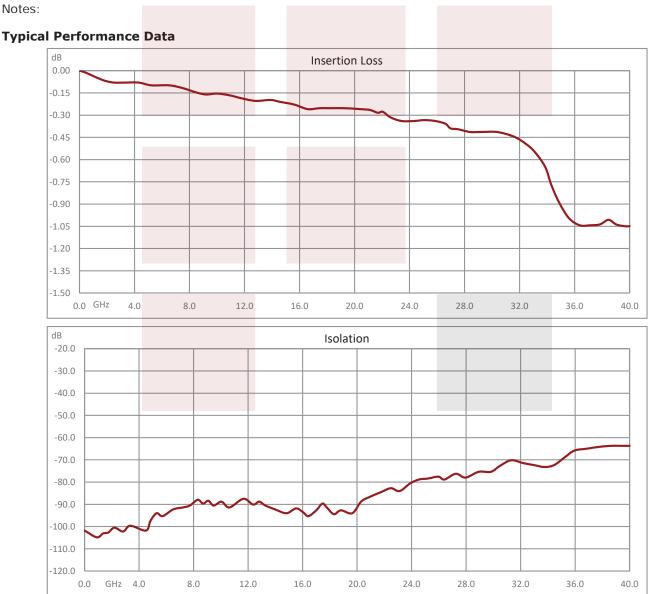
Operating Range -25 to +65 deg C Storage Range -55 to +100 deg C

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









Transfer Failsafe Electro-Mechanical Relay Switch DC to 40 GHz , Up To 10W, 12V, 2M Lifecycles, 2.92mm 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 40 GHz , Up To 10W, 12V, 2M Lifecycles, 2.92mm FMSW6432

URL: https://www.fairviewmicrowave.com/transfer-failsafe-40-ghz-electro-mechanical-relay-switch-90w-12v-2.92mm-fmsw6432-p.aspx

The information contained in 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 any liability arising out of the use of any part or documentation.





