



Transfer Latching DC to 18 GHz Electro-Mechanical Relay Switch, Indicators, up to 90W, 28V, SMA

The FMSW6402 is a Transfer (DPDT) 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 design features a Latching actuator with 1W Indicators, and is rated for 5M life cycles for high reliability operation. Insertion loss is specified as low as 0.2 dB maximum and Isolation up to 70 dB minimum. Operating voltage is +28 V and performance is guaranteed over -25°C to +70°C. The rugged and compact package assembly supports SMA Female connectors and Solder Pins for DC Control. 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
Actuator Options
Indicator Rating

Transfer Latching Break bef

Break before Make

Indicators

1 Watts / 32 Volts / 125 mA

Description	Min	Тур	Max	Units			
Frequency Range	DC		18	GHz			
Impedance		50		Ohms			
Operating Voltage	26	28	30	Volts			
Actuating Current @ 28 Volts		90		mA			
VSWR		1.2:1	1.4:1				
Insertion Loss		0.2	0.5	dB			
Insertion Loss Repeatability							
Isolation	60	70		dB			
Input Power (CW)			60	Watts			
Switching Time			20	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
Power In, Typ (CW)	90	75	60			Watts

Mechanical Specifications

Size

Weight 0.221 lbs [100.24 g]
Package Type Connectorized

Operating Life 5,000,000 Cycles

Connectors

RF Connector Type SMA Female Control Connector Solder Pin



Features:

- Tranfer (DPDT)
- DC to 18 GHz Frequency Range
- Isolation greater than 70 dB typical
- 5M Cycle Min Operating Life
- +28 Volt DC
- 90 Watt average Power
- Latching Actuator
- 1 Watt Indicators
- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.2 dB Max
- VSWR as low as 1.2:1 max
- SMA Female RF connectors
- Solder Pins for DC Control
- Hot Switching Capability
 - Consult Factory
- S-Parameter Data available upon request

Applications:

- High Performance Relay Switch
- Military Communications
- Communications Systems
- Test & Measurement

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Environmental Specifications

Temperature

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

Shock MIL-STD-202 Method 213, Cond. D 500G Non Operating Vibration MIL-STD-202 Method 214, Cond. D 10G RMS Non Operating

Compliance Certifications (see product page for current document)

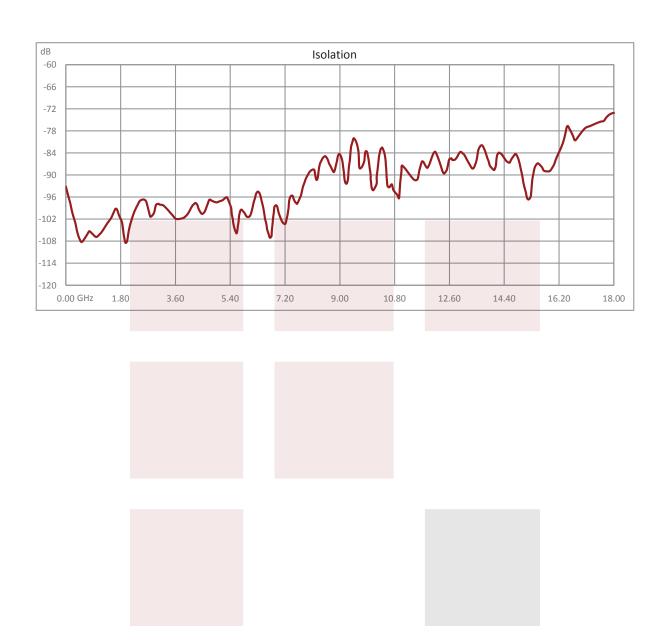
Plotted and Other Data

Notes:



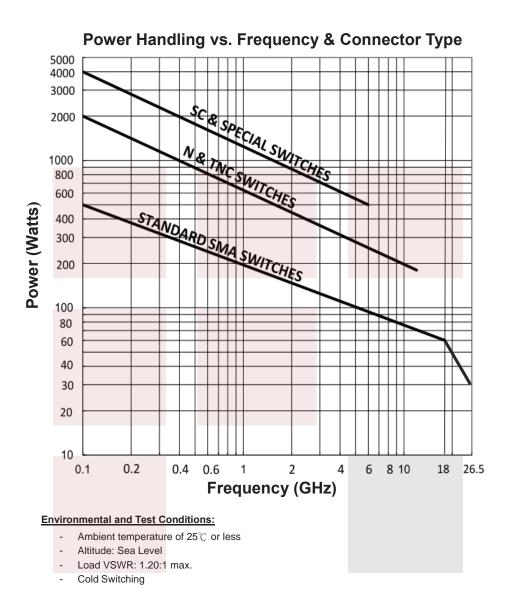












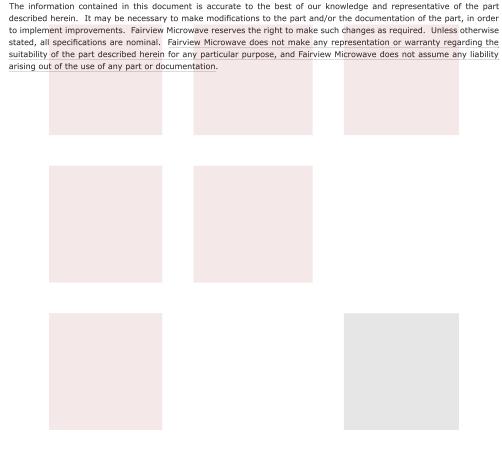




Transfer Latching DC to 18 GHz Electro-Mechanical Relay Switch, Indicators, up to 90W, 28V, SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

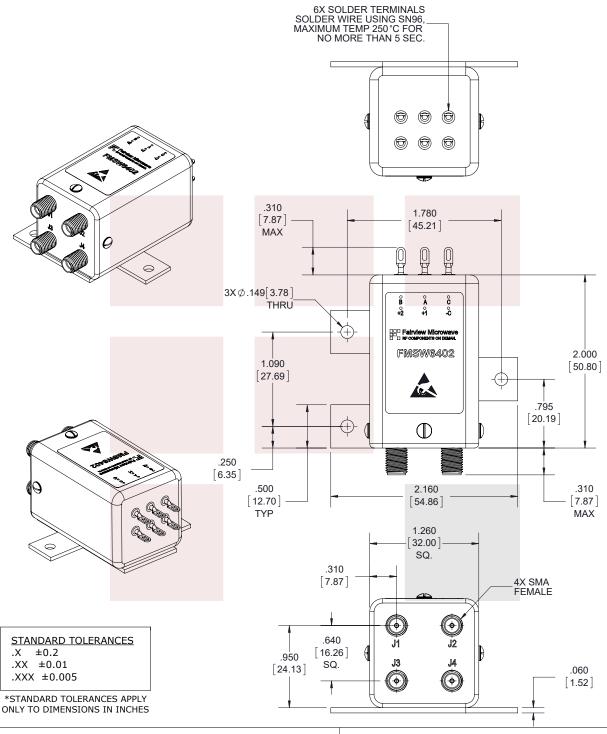
For additional information on this product, please click the following link: Transfer Latching DC to 18 GHz Electro-Mechanical Relay Switch, Indicators, up to 90W, 28V, SMA FMSW6402

URL: https://www.fairviewmicrowave.com/transfer-latching-18-ghz-electro-mechanical-relay-switch-indicators-60w-28v-sma-fmsw6402-p.aspx





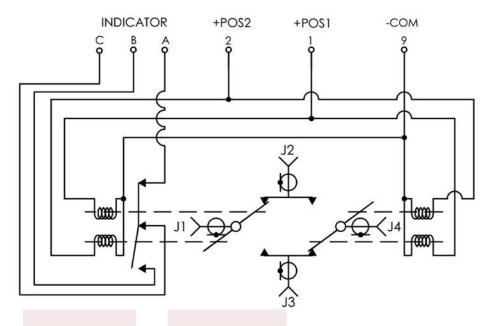




NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm]. FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM TITLE DWG NO CAGE CODE FMSW6402 3FKR5 Transfer Latching DC to 18 GHz Electro-Mechanical Relay Switch, Indicators, up to 90W, 28V, SMA CAD FILE 090817 SHEET SCALE N/A SIZE A 1 OF 2 7361







SCHEMATIC SHOWN IN LATCHING POSITION

POS	VOLTAGE	RF PATH	INDICATOR PATH
POS 1	1-9	JI-J2, J3-J4	A-C
POS 2	2-9	J1-J3, J2-J4	B-C

STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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