



Transfer Failsafe DC to 12 GHz Electro-Mechanical Relay Switch, TTL, up to 430W, 28V, N

The FMSW6386 is a Transfer (DPDT) electromechanical relay switch that operates across a wide frequency range of DC to 12 GHz and can handle up to 430 Watts of CW input power in a break before make condition. The design features a Failsafe actuator and is rated for 2M life cycles for high reliability operation. Insertion loss is specified from 0.7 dB maximum and Isolation from 60 dB minimum. The Failsafe TTL controlled actuator has a +28 Vdc bias voltage, and operates over a temperature range of -25°C to +70°C. The rugged and compact package assembly supports N Female connectors and a 9 Pin D-Sub Connector for DC Control. And for highly reliable operation, the model is guranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.



Switch Type
Actuator Type
Switching Sequence
Actuator Options
TTL Control

Transfer
Failsafe
Break before Make
TTL Logic
TTL Control

on: 2.4 to 5 Volts
off: 0 to 0.8 Volts

Description Min Max Units Typ DC 12 Frequency Range GHz **Impedance** 50 Ohms Operating Voltage 28 Volts 26 30 90 Actuating Current @ 28 Volts mA **VSWR** 1.2:1 1.7:1 Insertion Loss 0.7 0.2 dB Insertion Loss Repeatability Isolation 60 80 dB Input Power (CW) 200 Watts Switching Time 20 ms

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	1.4:1	1.5:1	1.7:1		
Insertion Loss, Max	0.2	0.4	0.5	0.7		dB
Isolation, Min	80	80	70	60		dB
Power In, Typ (CW)	430	300	230	200		Watts

Mechanical Specifications

Size

Weight 0.582 lbs [263.99 g]
Package Type Connectorized

Operating Life 2,000,000 Cycles



Features:

- Tranfer (DPDT)
- DC to 12 GHz Frequency Range
- Isolation greater than 80 dB typical
- 2M Cycle Min Operating Life
- +28 Volt DC
- · 430 Watt average Power
- Failsafe Actuator
- TTL Control
- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.2 dB Max
- VSWR as low as 1.2:1 max
- N Female RF connectors
- 9 Pin D-Sub Connector 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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Connectors

RF Connector Type N Female 9 Pin D-Sub Control Connector

Environmental Specifications

Temperature

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

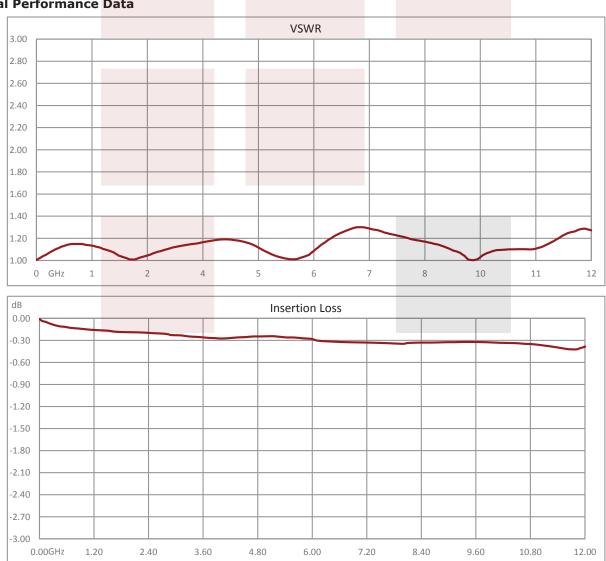
Shock MIL-STD-202 Method 213, Cond. D 500G Non Operating Vibration MIL-STD-202 Method 214, Cond. D 10G RMS Non Operating

Compliance Certifications (see product page for current document)

Plotted and Other Data

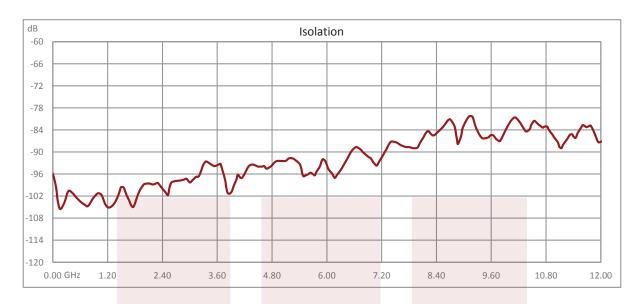
Notes:

Typical Performance Data









Transfer Failsafe DC to 12 GHz Electro-Mechanical Relay Switch, TTL, up to 430W, 28V, N from Fairview Microwave is instock 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.

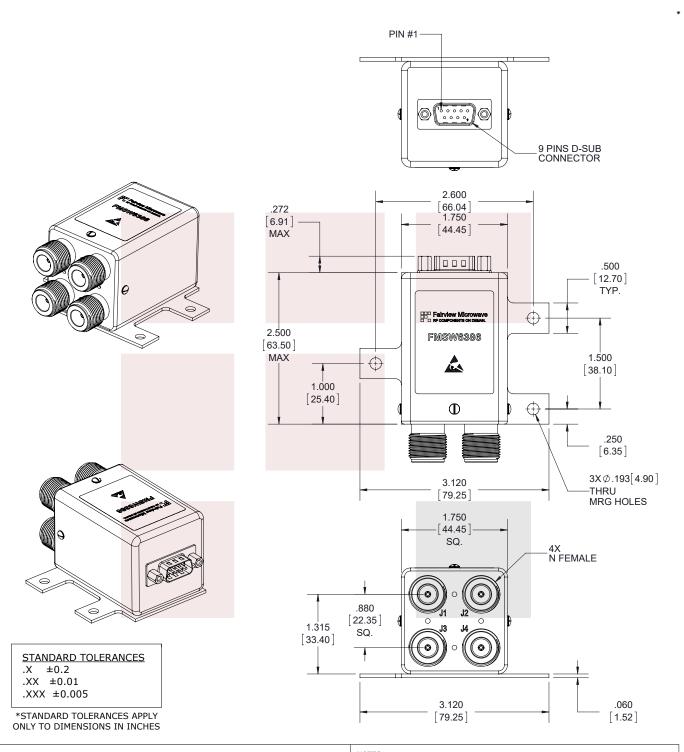
For additional information on this product, please click the following link: Transfer Failsafe DC to 12 GHz Electro-Mechanical Relay Switch, TTL, up to 430W, 28V, N FMSW6386

URL: https://www.fairviewmicrowave.com/transfer-failsafe-12-ghz-electro-mechanical-relay-switch-ttl-200w-28v-n-fm-sw6386-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.



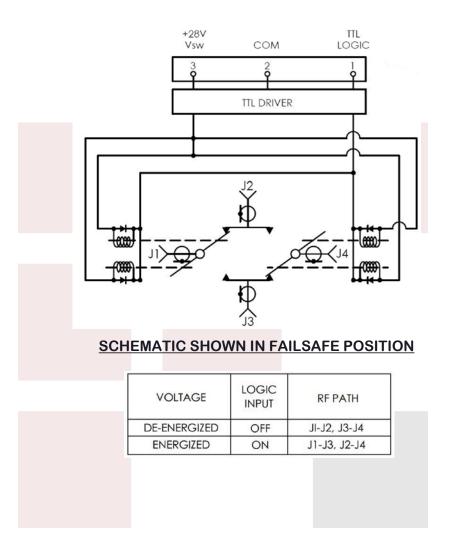




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Transfer Failsafe DC to 12 GHz Electro-Mechanical Relay Switch, TTL, up to 430W, 28V, N	DWG NO FMSW6386				CAGE CODE 3FKR5		
	CAD FILE 090817	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361	







STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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Transfer Failsafe DC to 12 GHz Electro-Mechanical	FMSW6386				CAGE CODE 3FKR5		
Relay Switch, TTL, up to 430W, 28V, N	CAD FILE 090817	SHEET 2 OF 2	SCAL	E N/A	SIZE A	7361	