Fairview Microwave

an INFINITG brand

Transfer Electromechanical Relay Latching Switch DC to 12.4 GHz, 2M Cycles, N, 160 Watts, 28V, Indicators, TTL, Diodes, Solder Pins

The FMSW6498 is a Transfer electromechanical relay switch that operates across a wide frequency range from DC to 12 GHz and can handle up to 160 Watts of average power in a break before make condition. The 50 Ohm design is rated for 2 million lifecycles and features a Latching Self Cut-Off Actuator that magnetically latches in place after the control voltage is removed. For power sensitive applications, this is the best actuator option. 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 +28Vdc bias voltage and operates over a temperature range of -25°C to +65°C. The rugged and compact package assembly supports N Type female connectors and solder terminal 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 Latching Indicator on: 2.4 t	age = +28 Vdc) rs, TTL Logic o 5.5 Volts 0.8 Volts	
Description	Min	Тур	Max	Units
Frequency Range Operating Voltage	DC	+28	12.4	GHz Volts
Actuating Current @ +28 \		250	mA	
VSWR		1.3:1	1.7:1	
Insertion Loss		0.2	0.7	dB
Isolation	60	70		dB
Input Power (CW) (at 12.4 GHz)			160	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC - 1	1 - 4	4 - 12			GHz
VSWR, Max	1.25:1	1.3:1	1.7:1			
Insertion Loss, Max	0.2	0.3	0.7			dB
Isolation, Min	70	70	60			dB

Mechanical Specifications

Size	
Length	2.52 in [64.01 mm]
Width/Diameter	3.12 in [79.25 mm]
Height	1.75 in [44.45 mm]
Weight	0.4 lbs [181.44 g]





Features:

- Transfer Electromechanical Relay Switch
- DC to 12 GHz Frequency Range
- Latching Actuator with Self Cut-Off
- 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
- N Type Female Connectors
- -25°C to +65°C Operating Temperature
- Up to 160 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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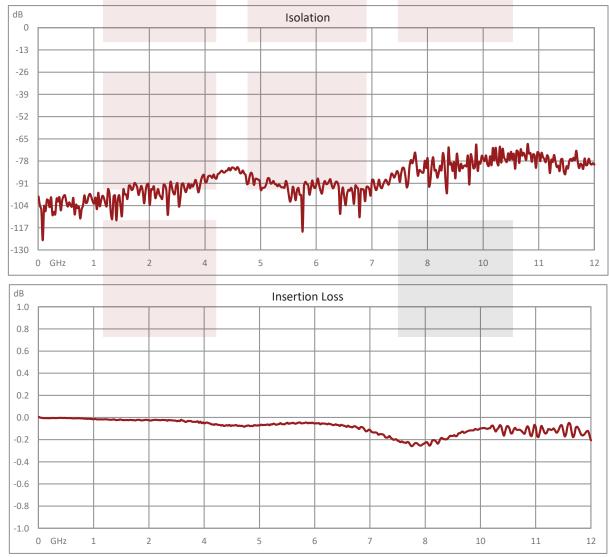
oper)

Connectors RF Connector Type	N Female
Environmental Specification Temperature Operating Range Storage Range	ns -25 to +65 deg C -55 to +100 deg C
Shock Vibration	MIL-STD-202 Method 213, Condition D, 500G (non oper) MIL-STD-202 Method 204, Condition D, 10G RMS (non oper)
Compliance Certifications (see product page for current document)

Plotted and Other Data

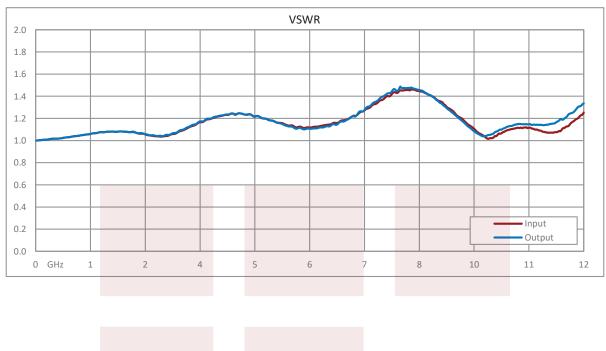
Notes:

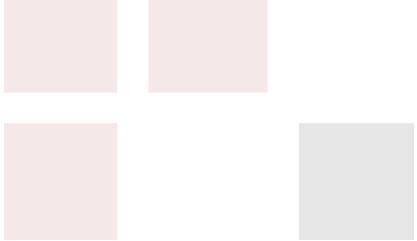
Typical Performance Data







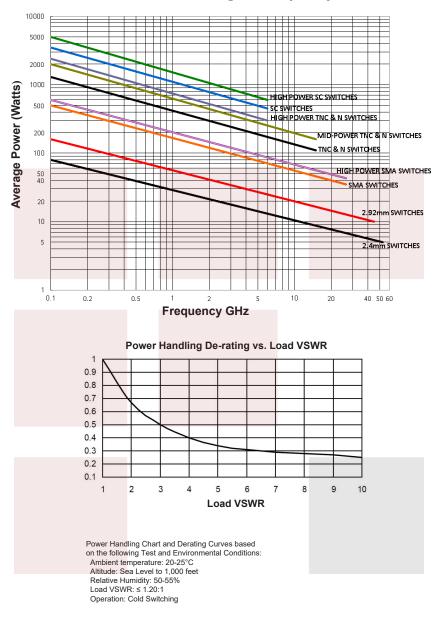








Power Handling vs. Frequency







Transfer Electromechanical Relay Latching Switch DC to 12.4 GHz, 2M Cycles, N, 160 Watts, 28V, 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.

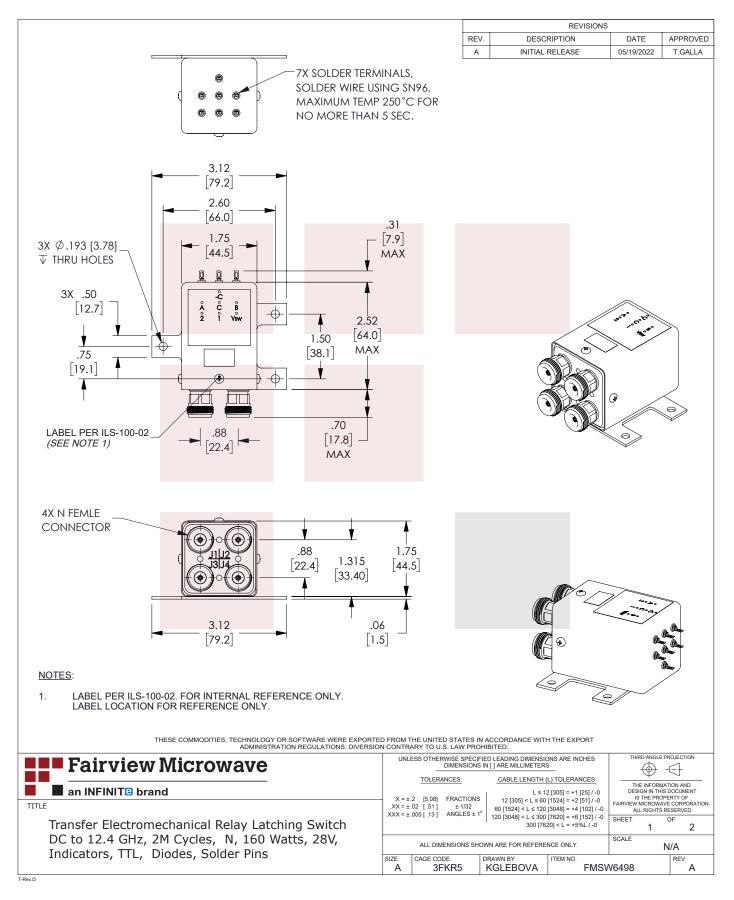
For additional information on this product, please click the following link: Transfer Electromechanical Relay Latching Switch DC to 12.4 GHz, 2M Cycles, N, 160 Watts, 28V, Indicators, TTL, Diodes, Solder Pins FMSW6498

URL: https://www.fairviewmicrowave.com/transfer-latching-12.4-ghz-electro-mechanical-relay-switch-indicators-160w-28v-n-fmsw6498-p.aspx





FMSW6498 DATA SHEET



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