Fairview Microwave

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Transfer Electromechanical Relay Latching Switch DC to 12.4 GHz, 2M Cycles, N, 50 Watts, 12V, Self Cut Off, TTL, Diodes, Solder Pins

The FMSW6495 is a Transfer electromechanical relay switch that operates across a wide frequency range from DC to 12 GHz and can handle up to 50W of average power in a break before make condition. The 50 Ohm design is rated for 5 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, and suppression diodes which limit voltage spikes or reverse current. Impressive typical performance includes 0.2 dB insertion loss and isolation greater than 70 dB. 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 N Type female connectors and Solder 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	is (TA = +25	Transfe Latchin Self Cu on: 2.4	er	
Description	Min	Тур	Мах	Units
Frequency Range	DC		12.4	GHz
Operating Voltage		+12		Volts
Actuating Current @ +12 Volts 300				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)			50	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
Width/Diameter
Height
Weight

2.52 in [64.01 mm] 3.12 in [79.25 mm] 1.75 in [44.45 mm] 0.4 lbs [181.44 g]

FMSW6495 DATA SHEET



Features:

- Transfer Electromechanical Relay Switch
- DC to 12 GHz Frequency Range
- Latching Self Cut-Off Actuator
- TTL Logic Control
- Suppression Diodes
- 2M Lifecycle Rating
- Insertion Loss 0.2 dB typ
- Isolation > 70 dB typ
- VSWR as low as 1.25:1 max
- +12 Volt DC Bias
- Solder Terminal Pins for DC Command Control
- N Type Female Connectors
 -25°C to +65°C Operating
- Temperature
- Up to 50 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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Connectors
RF Connector Type

N Female

Environmental Specifications

Operating Range	-25 to +65 deg C
Storage Range	-55 to +100 deg C
Shock	MIL-STD-202 Method 213 Condition

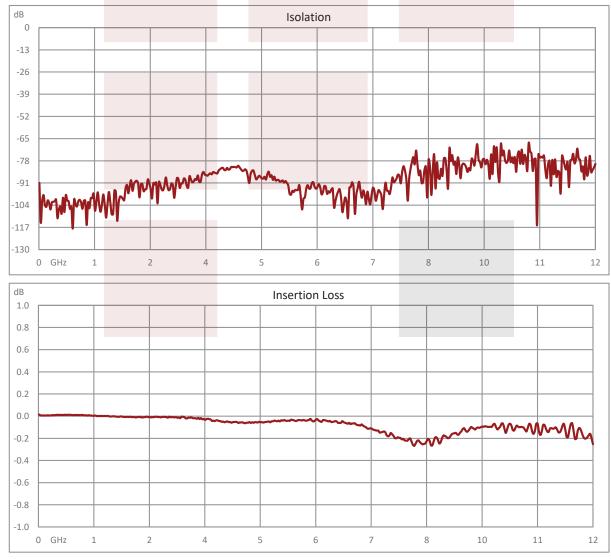
Shock Vibration MIL-STD-202 Method 213, Condition D, 500G (non oper) MIL-STD-202 Method 204, Condition D, 10G RMS (non oper)

Compliance Certifications (see product page for current document)

Plotted and Other Data

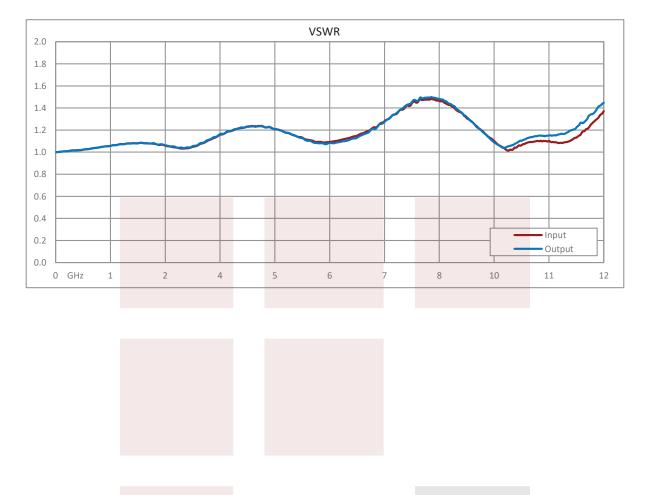
Notes:

Typical Performance Data





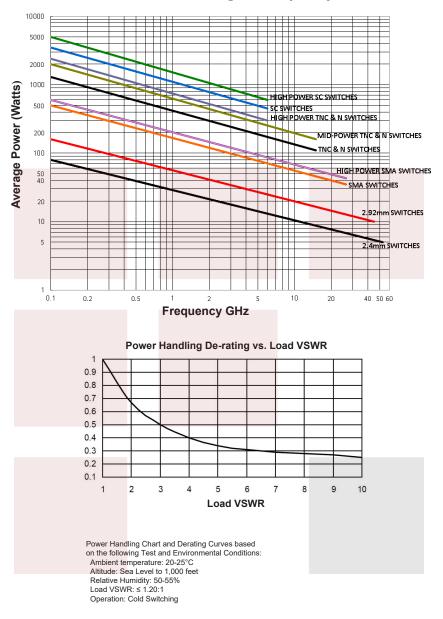








Power Handling vs. Frequency



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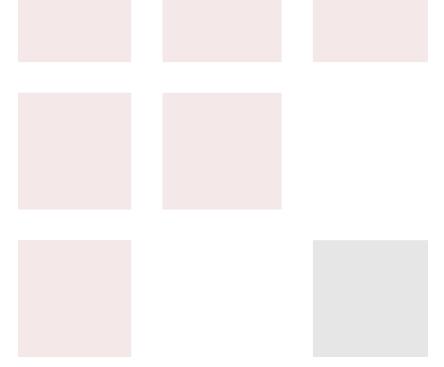


Transfer Electromechanical Relay Latching Switch DC to 12.4 GHz, 2M Cycles, N, 50 Watts, 12V, Self Cut Off, TTL, Diodes, Solder Pins from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities 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, 50 Watts, 12V, Self Cut Off, TTL, Diodes, Solder Pins FMSW6495

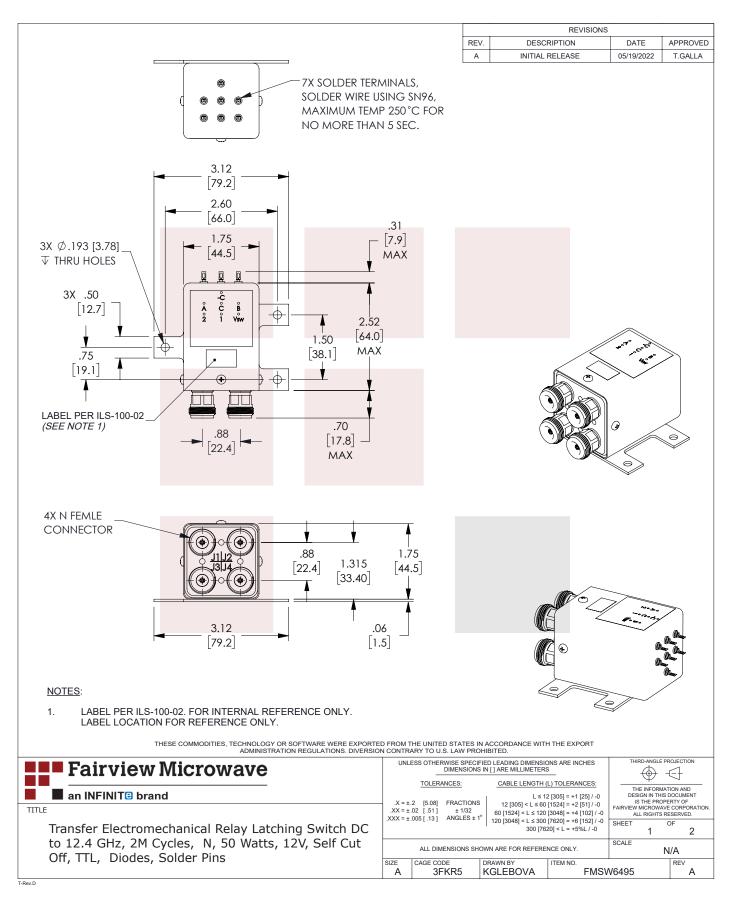
URL: https://www.fairviewmicrowave.com/transfer-latching-12.4-ghz-electro-mechanical-relay-switch-ttl-50w-12v-n-fmsw6495-p.aspx

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