



SP6T NO DC to 18 GHz Electro-Mechanical Relay Switch, up to 90W, 12V, SMA

The FMSW6373 is a Single Pole Six Throw (SP6T) 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 Normally Open actuator and is rated for 2M life cycles for high reliability operation. Impressive performance includes insertion loss less than 0.15 dB typical and isolation greater than 80 dB typical. The Normally Open actuator has a +12 Vdc bias voltage, and operates over a temperature range of -25°C to +70°C. The rugged and compact package assembly supports SMA Female connectors and a DB-9 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.

Electrical Specifications

Switch Type SP6T
Actuator Type Normally Open
Switching Sequence Break before Make

Description	Min	Тур	Max	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Operating Voltage	11	12	13	Volts
Actuating Set Current @ 12	2 Volts	200		mA
VSWR		1.2:1	1.4:1	
Insertion Loss		0.15	0.4	dB
Insertion Loss Repeatabi	lity			
Isolation	80	80		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	0.15	0.25	0.4			dB
Isolation, Min	80	80	80			dB
Power In, Typ (CW)	90	75	60			Watts

Mechanical Specifications

Operating Life

Size

Weight Body Material and Plating Package Type 0.263 lbs [119.29 g] Aluminum Connectorized 2,000,000 Cycles



Features:

- Single Pole Six Throw
- DC to 18 GHz Frequency Range
- Isolation greater than 80 dB typical
- 2M Cycle Min Operating Life
- +12 Volt DC
- 90 Watt average Power
- Normally Open Actuator
- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.15 dB Max
- VSWR as low as 1.2:1 max
- SMA Female RF connectors
- DB-9 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

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





Connectors

RF Connector Type SMA Female

RF Connector Contact Material & Plating
RF Connector Body Material & Plating
Control Connector

Beryllium Copper, Gold
Aluminum, Nickel
15-Pin D-Subminiatur

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

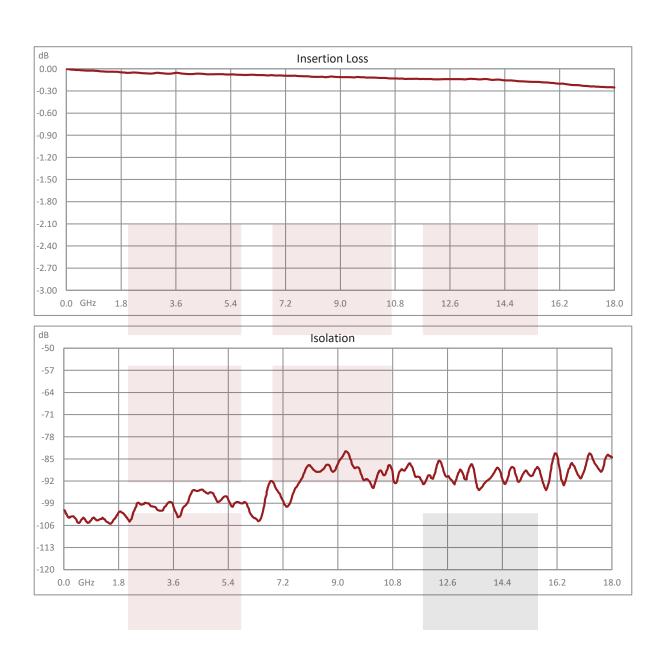
Notes:

Typical Performance Data



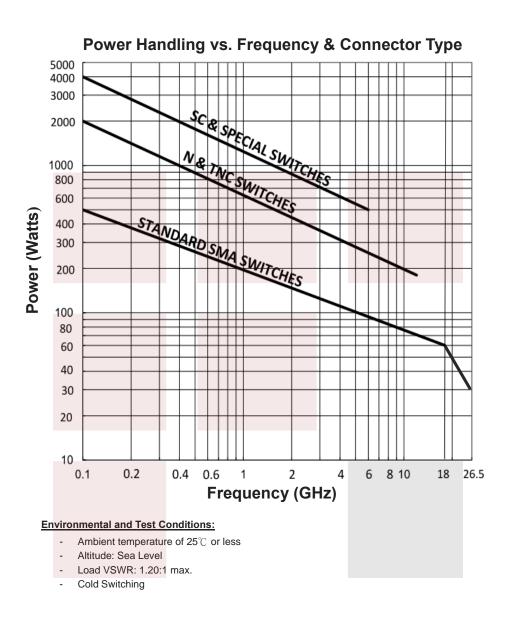
















SP6T NO DC to 18 GHz Electro-Mechanical Relay Switch, up to 90W, 12V, SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SP6T NO DC to 18 GHz Electro-Mechanical Relay Switch, up to 90W, 12V, SMA FMSW6373

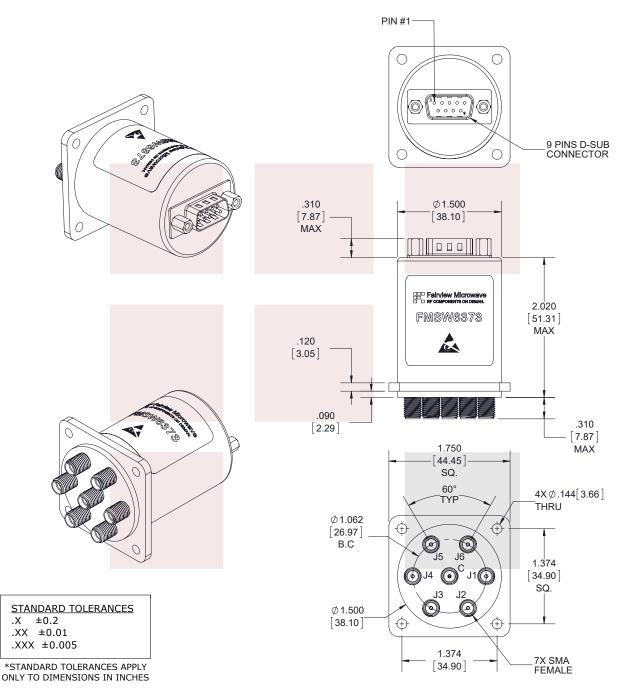
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order

URL: https://www.fairviewmicrowave.com/sp6t-normally-open-18-ghz-electro-mechanical-relay-switch-60w-12v-sma-fmsw6373-p.aspx

to implen	nent improvement	s. Fairview	Microw	ave reserve	es the righ	nt to mak	e such	changes	as requ	ired. Unle	ss ot	herwise
	Il specifications ar											
suitability	of the part descr	ibed hereir	for any	particular	purpose,	and Fair	view M	licrowave	does r	ot assume	any	liability
arising ou	it of the use of an	y part or do	ocument	ation.								



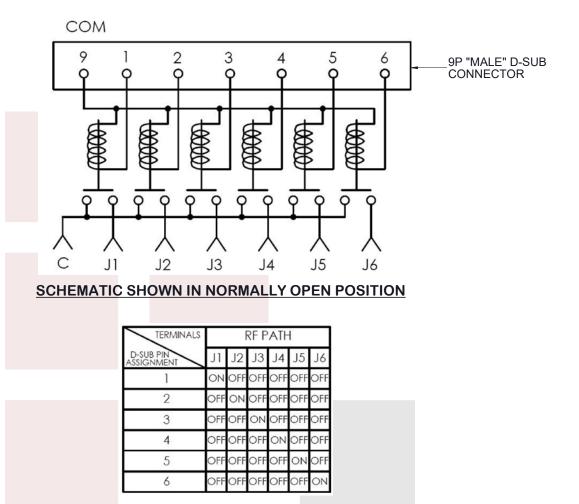




NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm]. FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM TITLE DWG NO CAGE CODE FMSW6373 3FKR5 SP6T NO DC to 18 GHz Electro-Mechanical Relay Switch, up to 90W, 12V, SMA CAD FILE 090817 SHEET SCALE N/A SIZE A 1 OF 2 7361







STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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