



Electromechanical Relay Switches Technical Data Sheet

PE71S6076

Features

- Single Pole Ten Throw Relay Switch
- DC to 18 GHz Frequency Range
- 2M Cycle Min Operating Life
- 100 Watt Avg Power Max

- -40 to +85 Deg C Operating Temperature
- Insertion Loss 0.7 dB Max
- VSWR 1.7:1 Max

Applications

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

Description

The PE71S6076 is a Single Pole Ten Throw Electromechanical Relay Switch that operates from DC to 18 GHz and can handle up to 240 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. Insertion loss is specified from 0.2 dB max and Isolation from 80 dB min, with +28 Vdc operating voltage. Performance is guaranteed over -40°C to +85°C and the switch assembly is RoHS and REACH compliant. The package interface uses solder terminals and SMA Female connectors.

Electrical Specifications

Switch Type Actuator Type Switching Sequence Polarity SP10T Normally Open Break before Make Negative Common

Minimum	Typical	Maximum	Units
DC		18	GHz
	50		Ohms
24	28	30	Volts
	102		mA
		1.7:1	
		0.7	dB
55			dB
		100	Watts
		15	ms Max
	DC 24	DC 50 24 28 102	DC 18 50 24 28 30 102 1.7:1 0.7 55 100

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP10T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 240W, 28V, SMA PE71S6076

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 8	8 to 12.4	12.4 to 15.5	15.5 to 18	GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1	1.7:1	
Insertion Loss, Max	0.2	0.3	0.4	0.5	0.7	dB
Isolation, Min	80	70	60	60	55	dB
Input Power, Max (CW)	240	150	120	110	100	Watts

Electrical Specification Notes:

Average Power and Actuating Current values at 25°C.

Mechanical Specifications

Size

 Length
 1.97 in [50.04 mm]

 Width/Diameter
 2.5 in [63.5 mm]

 Height
 2.5 in [63.5 mm]

 Weight
 0.7005 lbs [317.74 g]

 Package Type
 Connectorized

 Operating Life
 2,000,000 Cycles

Connectors

RF Connector Type SMA Female
RF Connector Specification MIL C 39012
Control Connector Solder Pin

Mechanical Specification Notes: Solder Pins: 250°C max/30sec.

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C Storage Range -55 to +85 deg C

Construction Splashproof

Humidity MIL-DTE-3928E, Cond.B

Shock MIL-STD-202, Method 213B, Cond.C (survival) Vibration MIL-STD-202, Method 204D, Cond.D (survival)

Environmental Specification Notes:

Environmental specifications are guaranteed but not tested.

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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values shown are typical at 25°C.

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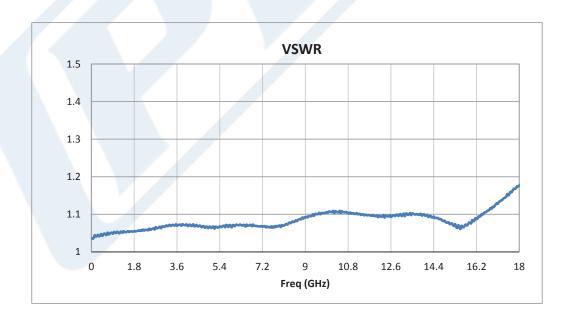


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Typical Performance Data





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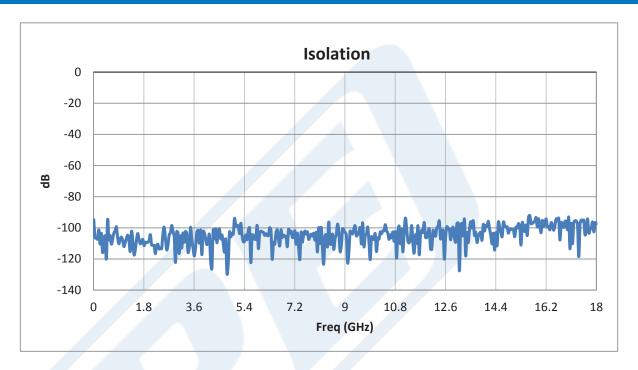
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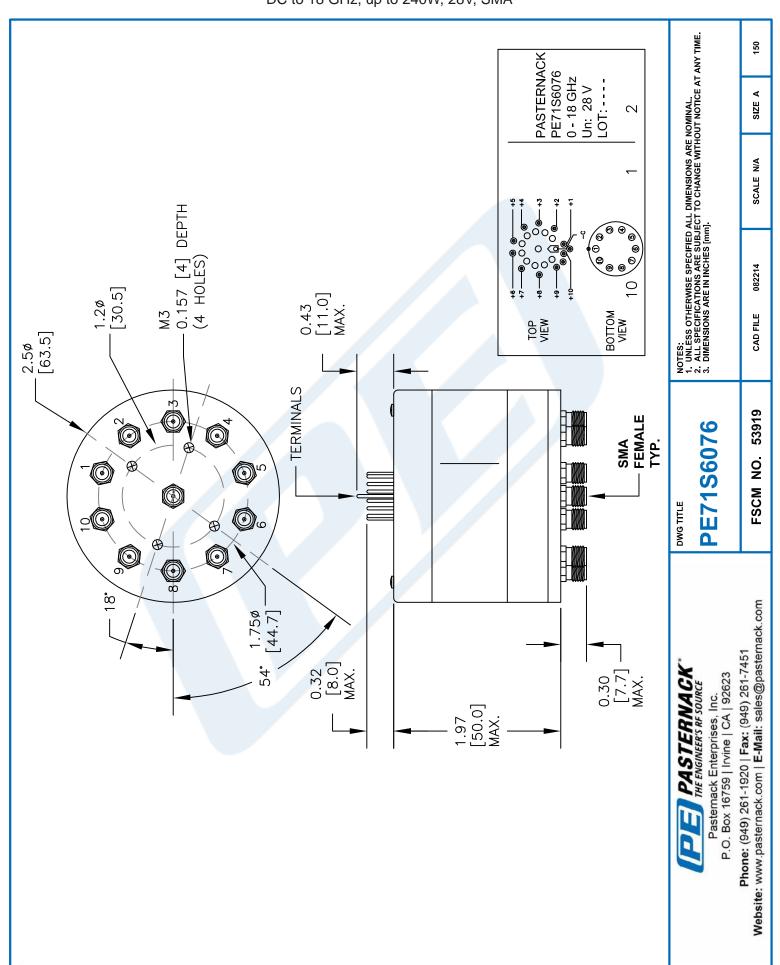
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PE71S6076 CAD Drawing

SP10T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 240W, 28V, SMA



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