



Electromechanical Relay Switches Technical Data Sheet

PE71S6082

Features

- Single Pole Twelve Throw Terminated Relay Switch
- DC to 12.4 GHz Frequency Range
- 2M Cycle Min Operating Life
- 120 Watt Avg Power Max

- -40 to +85 Deg C Operating Temperature
- Insertion Loss 0.6 dB Max
- VSWR 1.6:1 Max

Applications

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

Description

The PE71S6082 is a Single Pole Twelve Throw Terminated Electromechanical Relay Switch that operates from DC to 12.4 GHz and can handle up to 240 Watts of CW input power in a Break Before Make condition. The design features a Latching Actuator with Terminations, Diodes, Position Indicators, Self Cut Off and Auto Reset circuitry 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 a 44 pin D-SUB Male connector and SMA Female connectors.

Electrical Specifications

Switch Type
Actuator Type
Switching Sequence
Actuator Options
Polarity
Indicator Rating
Self Cut-Off Time

SP12T, Terminated
Latching
Break before Make
Self Cut Off, Auto Reset, Indicators, Diodes
Negative Common
1 Watt / 30 Volts / 100 mA
40 ms < CT < 120 ms

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
Impedance		50		Ohms
Operating Voltage	24	28	30	Volts
Actuating Set Current @ 28 Volts		500		mA
VSWR			1.6:1	
Insertion Loss			0.6	dB
Isolation	60			dB
Input Power (CW)			120	Watts
Termination Input Power (CW)			1	Watt
Switching Time			50	ms Max

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP12T Electromechanical Relay Latching Switch, Terminated, DC to 12.4 GHz, up to 240W, 28V Self Cut Off, Auto Reset, Indicators, Diodes, SMA PE71S6082

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			GHz
VSWR, Max	1.2:1	1.4:1	1.6:1			
Insertion Loss, Max	0.2	0.4	0.6			dB
Isolation, Min	80	70	60			dB
Input Power, Max (CW)	240	150	120			Watts

Electrical Specification Notes:

Average Power and Actuating Current values at 25°C.

Termination Average Power: 1W per termination / 3W total power.

Mechanical Specifications

Size

 Length
 2.598 in [65.99 mm]

 Width/Diameter
 2.68 in [68.07 mm]

 Height
 2.68 in [68.07 mm]

 Weight
 0.9075 lbs [411.64 g]

 Package Type
 Connectorized

 Operating Life
 2,000,000 Cycles

Connectors

RF Connector Type SMA Female
RF Connector Specification MIL C 39012
Control Connector DB-44 Male

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)
ESD Sensitivity ESD Sensitive Material. Transport material in approved

ESD bags. Handle in approved ESD Workstation.

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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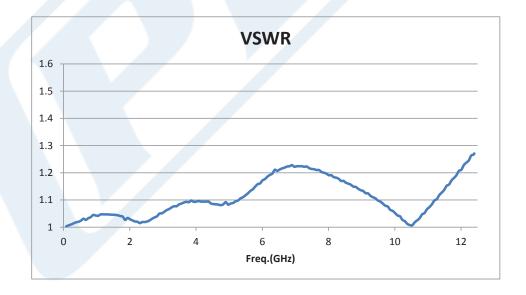


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Typical Performance Data





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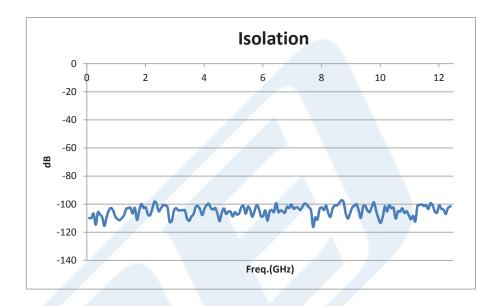
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SP12T Electromechanical Relay Latching Switch, Terminated, DC to 12.4 GHz, up to 240W, 28V Self Cut Off, Auto Reset, Indicators, Diodes, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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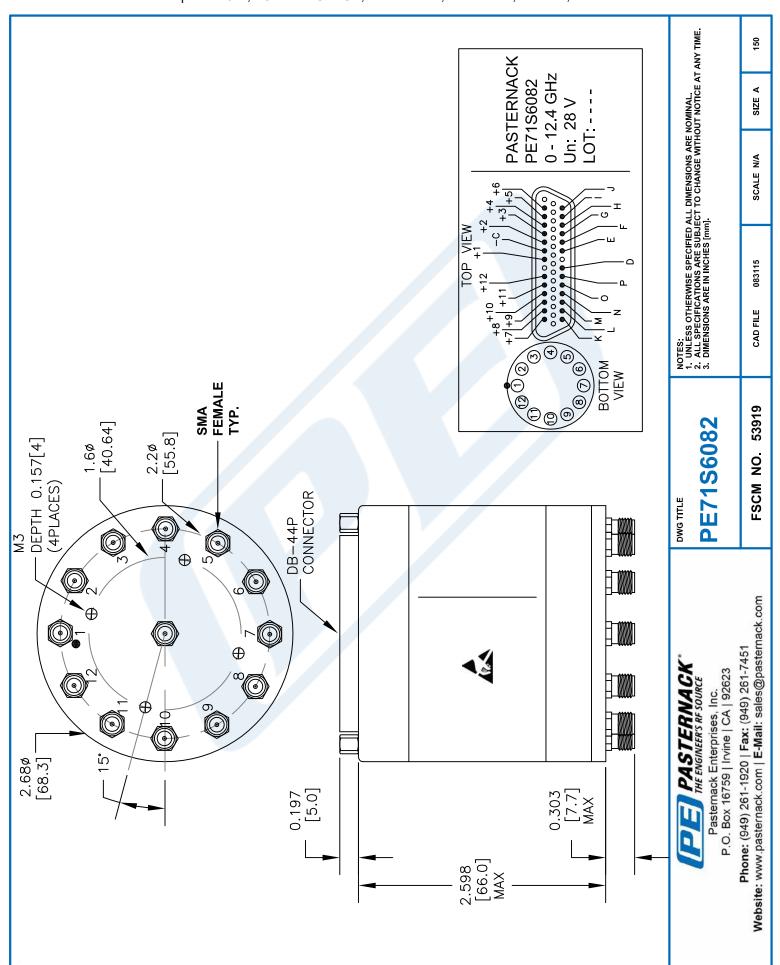
URL: https://www.pasternack.com/sma-sp12t-electromechanical-relay-switch-12.4-ghz-latching-pe71s6082-p.aspx

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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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PE71S6082 CAD Drawing

SP12T Electromechanical Relay Latching Switch, Terminated, DC to 12.4 GHz, up to 240W, 28V Self Cut Off, Auto Reset, Indicators, Diodes, SMA



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