



Electromechanical Relay Switches Technical Data Sheet

PE71S6313

Features

- Single Pole Six Throw Terminated Relay Switch
- DC to 22 GHz Frequency Range
- 1M Cycle Min Operating Life
- Latching Actuator
- Self Cut Off, Suppression Diodes

- · Insertion Loss 0.6 dB max
- Isolation 60 dB min
- 20 Watts Avg Power Max
- · Switching Sequence Break Before Make

Applications

- Test & Measurement
- Communications System
- Instrumentation

Description

The PE71S6313 is a Single Pole Six Throw Terminated Electromechanical Relay Switch that operates from DC to 22 GHz and has a rating of 20 Watts input power (CW) in a Break Before Make condition. The design features a Latching Actuator with Self Cut Off circuitry, Internal Terminations, Suppression Diodes and is rated for 1M Life Cycles for high reliability operation. Insertion loss is specified from 0.3 dB max and Isolation from 75 dB min, with +12 Vdc operating voltage. Performance is guaranteed over -25°C to +65°C and the switch assembly is RoHS compliant. The package interface uses solder terminals and SMA Female connectors.

Electrical Specifications

Switch Type Actuator Type Switching Sequence Actuator Options Polarity SP6T, Absorptive Latching Break Before Make Self Cut Off, Diodes Positive

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		22	GHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Volts		300		mA
VSWR			1.6:1	
Insertion Loss			0.6	dB
Isolation	60			dB
Input Power (CW)			20	Watts
(at 22 GHz)				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP6T Electromechanical Relay Latching Switch DC to 22 GHz, SMA, 20 Watts, 12V Control, Self Cut Off, Diodes PE71S6313

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

Sales@Pasternack.com • Techsupport@Pasternack.com





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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 8	8 to 12	12 to 18	18 to 22	GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	
Insertion Loss, Max	0.3	0.35	0.4	0.5	0.6	dB
Isolation, Min	75	70	65	60	60	dB

Mechanical Specifications

Size

Length

Width/Diameter

Height

Weight

Body Material and Plating

Package Type

Operating Life

Switching Time

Connectors

RF Connector Type

RF Connector Contact Material and Plating

RF Connector Body Material and Plating

Control Connector

Environmental Specifications

Temperature

Operating Range

ESD Sensitivity

2.13 in [54.1 mm]

2.13 in [54.1 mm] 2.33 in [59.18 mm]

0.625 lbs [283.5 g]

Aluminum

Connectorized Module

1,000,000 Cycles

20 ms Max

SMA Female

Beryllium Copper, Gold

Passivated Stainless Steel

Solder Pins

-25 to +65 deg C

ESD Sensitive Material. Transport material in Approved ESD bags. Handle in approved ESD Workstation.



Environmental Specification Notes: Designed to meet MIL-DTL-3928

Compliance Certifications (visit www.Pasternack.com for current document) RoHS Compliant

Plotted and Other Data

Notes:

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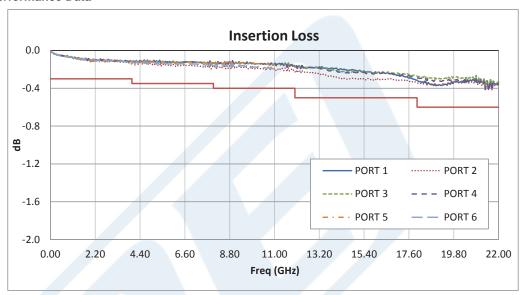


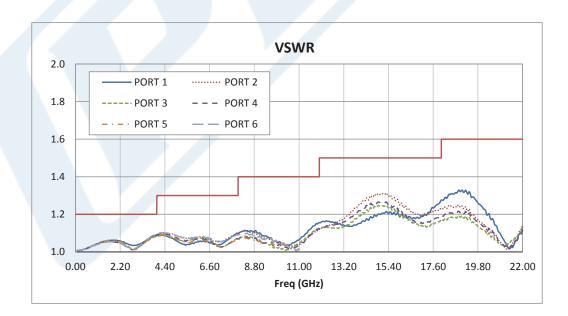


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Typical Performance Data





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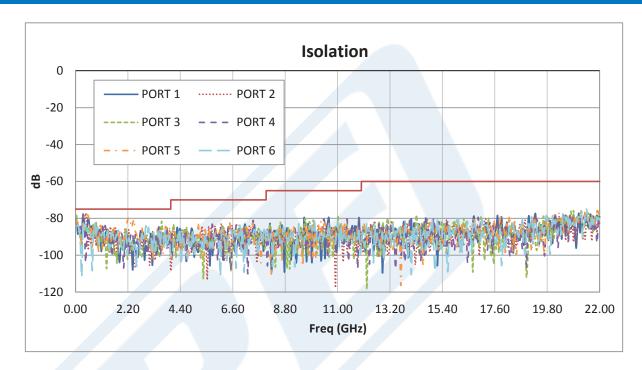
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SP6T Electromechanical Relay Latching Switch DC to 22 GHz, SMA, 20 Watts, 12V Control, Self Cut Off, Diodes from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/sma-sp6t-electromechanical-relay-latching-switch-self-cut-off-diodes-pe71s6313-p.aspx

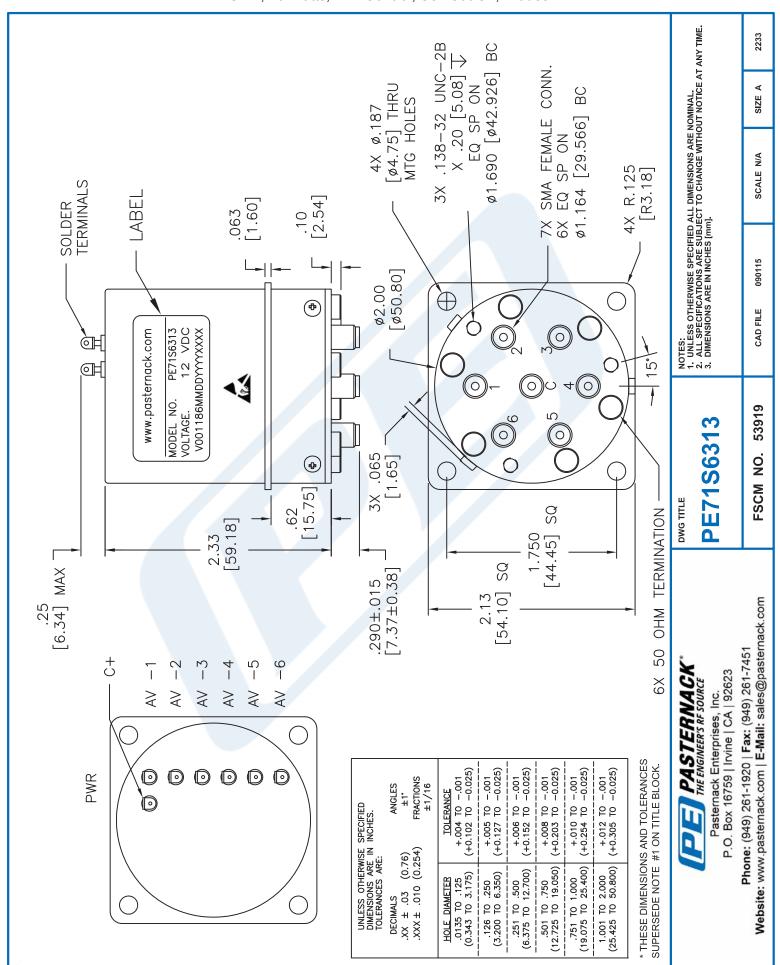
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PE71S6313 CAD Drawing

SP6T Electromechanical Relay Latching Switch DC to 22 GHz, SMA, 20 Watts, 12V Control, Self Cut Off, Diodes



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