



Electromechanical Relay Switches Technical Data Sheet

PE71S6143

Features

- Single Pole Six Throw Relay Switch
- DC to 40 GHz Frequency Range
- 1M Cycle Min Operating Life
- Normally Open Actuator

- · Insertion Loss 1 dB max
- Isolation 50 dB min
- 3 Watts Avg Power Max
- Switching Sequence Break Before Make

Applications

- Test & Measurement
- · Communications System
- Instrumentation
- · Suitable for Aircraft

Description

The PE71S6143 is a Single Pole Six Throw Electromechanical Relay Switch that operates from DC to 40 GHz and has a rating of 3 Watts input power (CW) in a Break Before Make condition. The design features a Normally Open Actuator and is rated for 1M Life Cycles for high reliability operation. Insertion loss is specified from 0.2 dB max and Isolation from 70 dB min, with +28 Vdc operating voltage and performance is guaranteed over -35°C to +85°C. The package interface uses solder terminals and 2.92mm Female connectors.

Electrical Specifications

Switch Type Actuator Type Switching Sequence Polarity SP6T, Reflective Normally Open Break Before Make Positive Common

Description	Minimum Typical		Maximum	Units					
Frequency Range	DC		40	GHz					
Impedance		50		Ohms					
Operating Voltage	24	28	30	Volts					
Actuating Current @ 28 Volts			180	mA					
VSWR			2:1						
nsertion Loss			1	dB					
solation	50			dB					
Input Power (CW)			3	Watts					
(at 40 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 Normally Open Switch DC to 40 GHz, 2.92mm, 3 Watts, 28V Control PE71S6143

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 6	6 to 12	12 to 18	18 to 26.5	26.5 to 40	GHz
VSWR, Max	1.3:1	1.4:1	1.5:1	1.7:1	2:1	
Insertion Loss, Max	0.2	0.4	0.5	0.7	1	dB
Isolation, Min	70	60	60	55	50	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

1.6 in [40.64 mm] 1.75 in [44.45 mm] 1.75 in [44.45 mm]

0.256 lbs [116.12 q]

Aluminum

Connectorized

1,000,000 Cycles

15 ms Max

2.92mm Female

Beryllium Copper, Gold

Passivated Stainless Steel

Solder Pin

-35 to +85 deg C

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

Environmental Specification Notes:

Designed to meet MIL-E-5400 and MIL-DTL-3928

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

Not RoHS Compliant

Plotted and Other Data

Notes:

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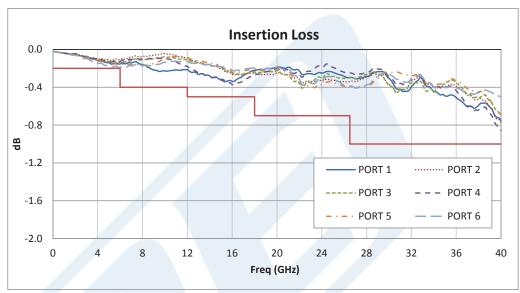


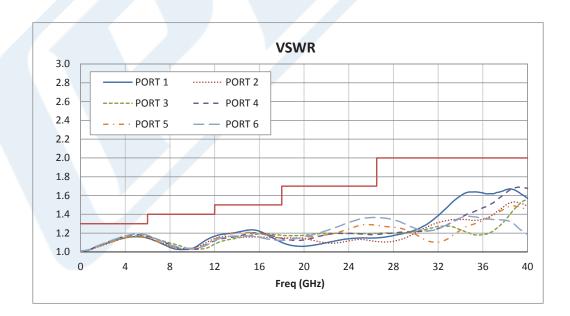


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Typical Performance Data





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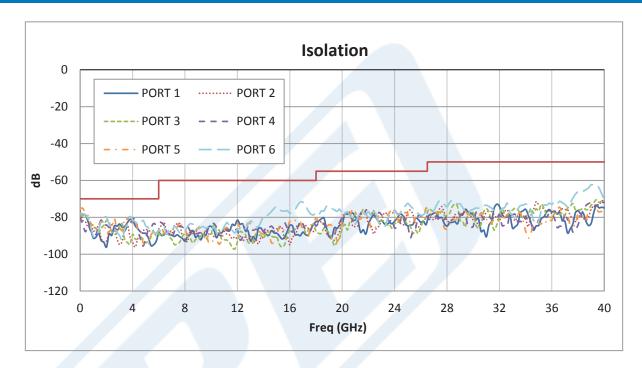
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SP6T Electromechanical Relay Normally Open Switch DC to 40 GHz, 2.92mm, 3 Watts, 28V Control from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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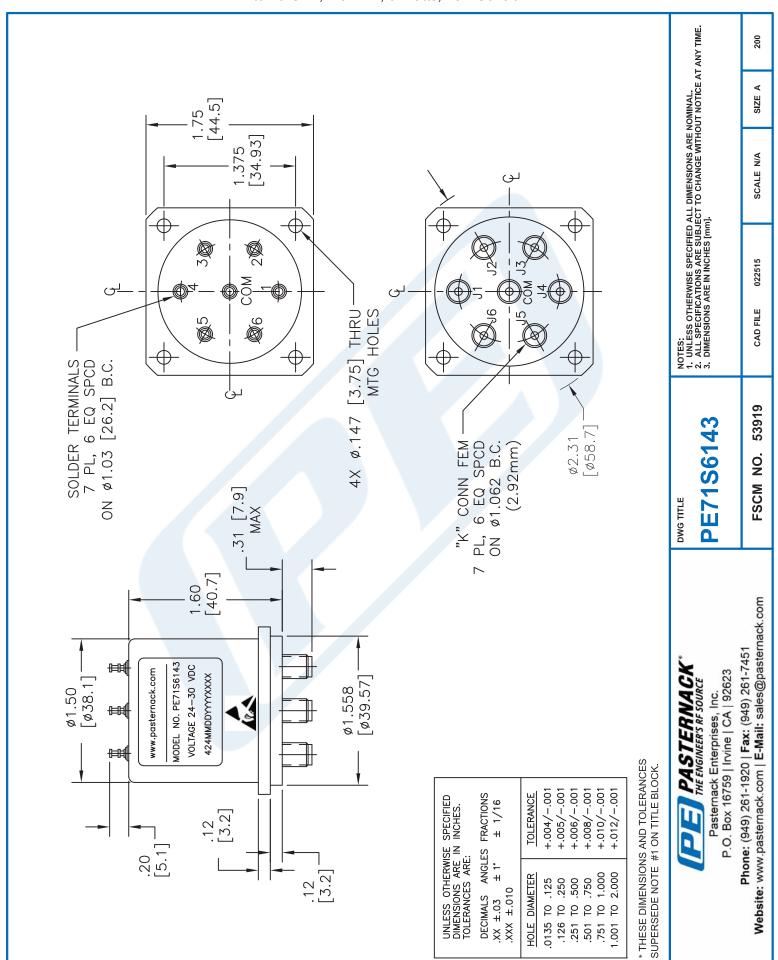
URL: http://www.pasternack.com/2.92mm-sp6t-electromechanical-relay-switch-40-ghz-normally-open-pe71s6143-p.aspx

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PE71S6143 CAD Drawing

SP6T Electromechanical Relay Normally Open Switch DC to 40 GHz, 2.92mm, 3 Watts, 28V Control



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