

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



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 0.9 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	
Insertion Loss			0.9	dB
Isolation	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

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Performance by Frequency

F1	F2	F3	F4	F5	Units
DC to 6	6 to 12	12 to 18	18 to 26.5	26.5 to 40	GHz
1.3:1	1.4:1	1.5:1	1.7:1	2:1	
0.2	0.4	0.5	0.7	0.9	dB
70	60	60	55	50	dB
	DC to 6 1.3:1 0.2	DC to 6 6 to 12 1.3:1 1.4:1 0.2 0.4	DC to 6 6 to 12 12 to 18 1.3:1 1.4:1 1.5:1 0.2 0.4 0.5	DC to 6 6 to 12 12 to 18 18 to 26.5 1.3:1 1.4:1 1.5:1 1.7:1 0.2 0.4 0.5 0.7	DC to 6 6 to 12 12 to 18 18 to 26.5 26.5 to 40 1.3:1 1.4:1 1.5:1 1.7:1 2:1 0.2 0.4 0.5 0.7 0.9

Mechanical Specifications

Size

Lenath

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

ESD Sensitivity

-35 to +85 deg C

Solder Pin

1.6 in [40.64 mm]

1.75 in [44.45 mm] 1.75 in [44.45 mm]

0.256 lbs [116.12 q]

Connectorized Module 1,000,000 Cycles

Beryllium Copper, Gold

Passivated Stainless Steel

Aluminum

15 ms Max

2.92mm Female

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

Temperature

Operating Range

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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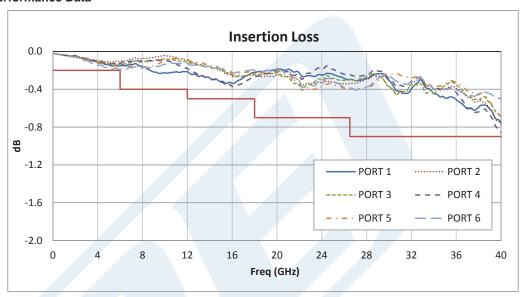
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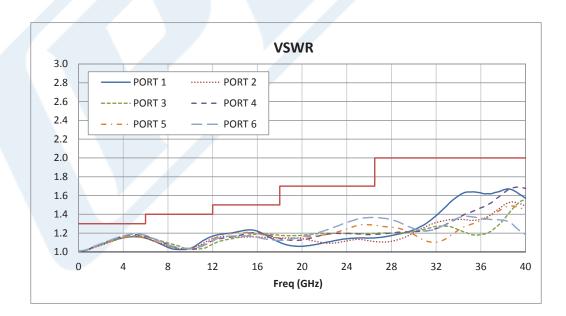


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Typical Performance Data





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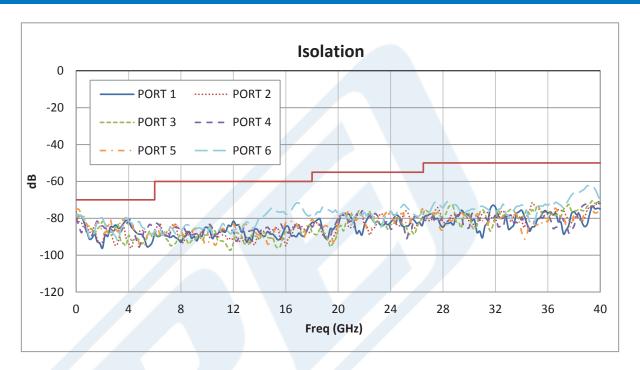


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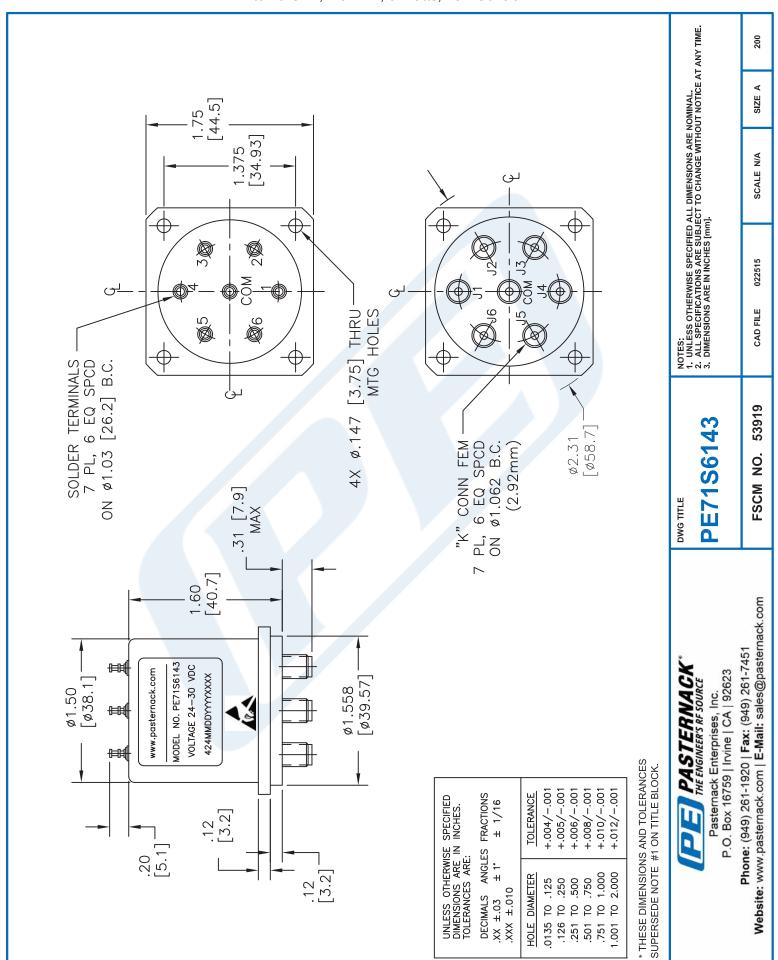
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PE71S6143 CAD Drawing

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



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