



Electromechanical Relay Switches Technical Data Sheet

PE71S6349

Features

- Single Pole Double Throw
- DC to 12 GHz Frequency Range
- Isolation greater than 90 dB typical
- 5M Cycle Min Operating Life
- +12 Volt DC
- · 600 Watt average Power
- · Latching Actuator

- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.2 dB Max
- VSWR as low as 1.25:1 max
- N Female RF connectors
- 9 Pin D-Sub Connector for DC Control
- · Hot Switching Capability Consult Factory
- · S-Parameter Data available upon request

Applications

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

Description

The PE71S6349 is a Single Pole Double Throw (SPDT) electromechanical relay switch that operates across a wide frequency range of DC to 12 GHz and can handle up to 600 Watts of CW input power in a break before make condition. The design features a Latching actuator and is rated for 5M life cycles for high reliability operation. Impressive performance includes insertion loss less than 0.15 dB typical and isolation greater than 90 dB typical. The Latching actuator has a +12 Vdc bias voltage, and operates over a temperature range of -25°C to +70°C. The rugged and compact package assembly supports N Female connectors and a 9 Pin D-Sub Connector for DC Control. And for highly reliable operation, the model is guranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

Electrical Specifications

Switch Type
Actuator Type
Switching Sequence

SPDT Latching

Break before Make

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12	GHz
Impedance		50		Ohms
Operating Voltage	11	12	13	Volts
Actuating Set Current @ 12 Volts		200		mA
VSWR		1.25:1	1.4:1	
Insertion Loss		0.3	0.5	dB
Isolation	70	90		dB
Input Power (CW)			200	Watts
Switching Time			20	ms Max

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SPDT Electromechanical Relay Latching Switch, DC to 12 GHz, up to 600W, 12V, N PE71S6349

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

F1	F2	F3	F4	F5	Units
DC to 1	1 to 4	4 to 8	8 to 12		GHz
1.25:1	1.3:1	1.4:1	1.4:1		
0.3	0.4	0.4	0.5		dB
90	80	80	70		dB
600	300	230	200		Watts
	DC to 1 1.25:1 0.3 90	DC to 1 1 to 4 1.25:1 1.3:1 0.3 0.4 90 80	DC to 1 1 to 4 4 to 8 1.25:1 1.3:1 1.4:1 0.3 0.4 0.4 90 80 80	DC to 1 1 to 4 4 to 8 8 to 12 1.25:1 1.3:1 1.4:1 1.4:1 0.3 0.4 0.4 0.5 90 80 80 70	DC to 1 1 to 4 4 to 8 8 to 12 1.25:1 1.3:1 1.4:1 1.4:1 0.3 0.4 0.4 0.5 90 80 80 70

Mechanical Specifications

Size

Body Material and Plating

Package Type

Operating Life

Connectors

RF Connector Type

RF Connector Contact Material and Plating

RF Connector Body Material and Plating

Control Connector

N Female

Aluminum

Connectorized

5,000,000 Cycles

Beryllium Copper, Gold

Aluminum, Nickel

9-Pin D-Subminiature

Environmental Specifications

Temperature

Operating Range

Storage Range

Shock

Vibration

-25 to +70 deg C -55 to +100 deg C

-55 to +100 deg C

MIL-STD-202 Method 213, Cond. D 500G Non Operat-

ıng

MIL-STD-202 Method 214, Cond. D 10G RMS Non

Operating

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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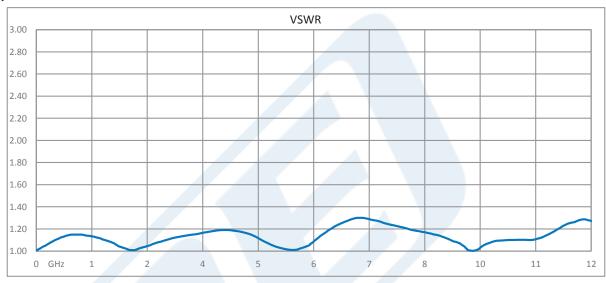


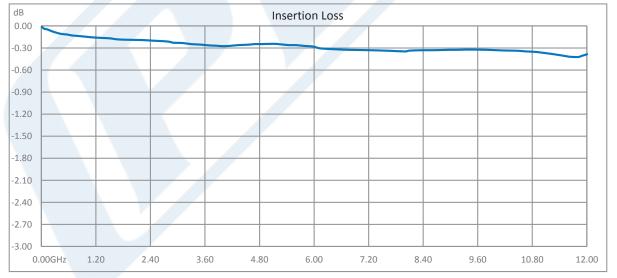


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Typical Performance Data





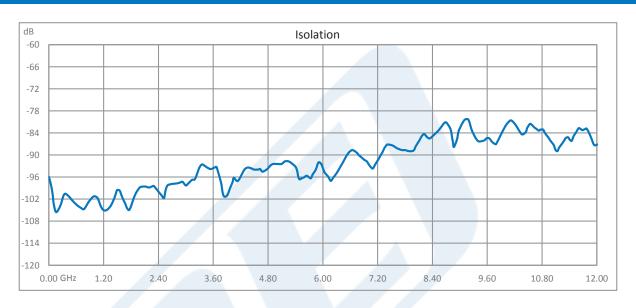
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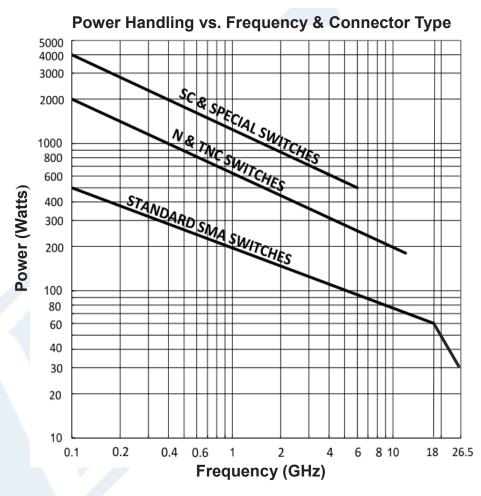
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Environmental and Test Conditions:

- Ambient temperature of 25[°]C or less
- Altitude: Sea Level
- Load VSWR: 1.20:1 max.
- Cold Switching

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SPDT Electromechanical Relay Latching Switch, DC to 12 GHz, up to 600W, 12V, N 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/spdt-electromechanical-relay-latching-switch-12-ghz-200w-12v-n-pe71s6349-p.aspx

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PE71S6349 CAD Drawing

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