



Electromechanical Relay Switches Technical Data Sheet

PE71S6399

Features

- Single Pole Double Throw
- DC to 12 GHz Frequency Range
- Isolation greater than 90 dB typical
- 5M Cycle Min Operating Life
- +28 Volt DC
- · 200 Watt Power Hot Switching
- · Latching Actuator
- 1 Watt Indicators

- -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
- Solder Pins 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 PE71S6399 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 430 Watts of CW input power in a break before make condition. The design features a Latching actuator with 1W Indicators, and is rated for 5M life cycles for high reliability operation. Insertion loss is specified as low as 0.3 dB maximum and Isolation up to 90 dB minimum. Operating voltage is +28 V and performance is guaranteed over -25°C to +70°C. The rugged and compact package assembly supports N Female connectors and Solder Pins for DC Control. The model is guaranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

Electrical Specifications

Switch Type
Actuator Type
Switching Sequence
Actuator Options
Indicator Rating

SPDT Latching

Break before Make

Indicators

1 Watt / 32 Volts / 125 mA

Minimum	Typical	Maximum	Units
DC		12	GHz
	50		Ohms
26	28	30	Volts
	90		mA
	1.25:1	1.4:1	
	0.3	0.5	dB
70	90		dB
		200	Watts
		20	ms Max
	DC 26	DC 50 26 28 90 1.25:1 0.3	DC 12 50 26 28 30 90 1.25:1 1.4:1 0.3 0.5 70 90 200

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, 28V, Indicators, N PE71S6399

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

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

Environmental Specifications

Temperature

Operating Range

Storage Range

Shock

Vibration

Aluminum Connectorized

5,000,000 Cycles

N Female

Beryllium Copper, Gold

Aluminum, Nickel

Solder Pin

-25 to +70 deg C

-55 to +100 deg C

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

ina

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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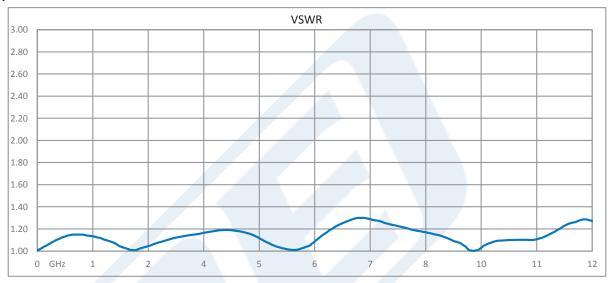


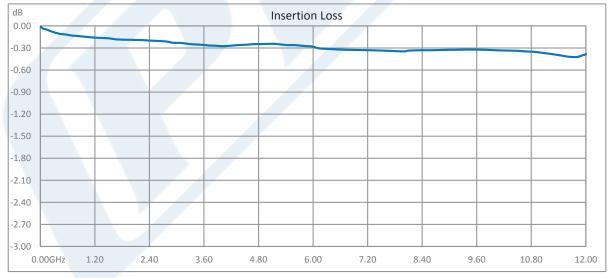


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Typical Performance Data





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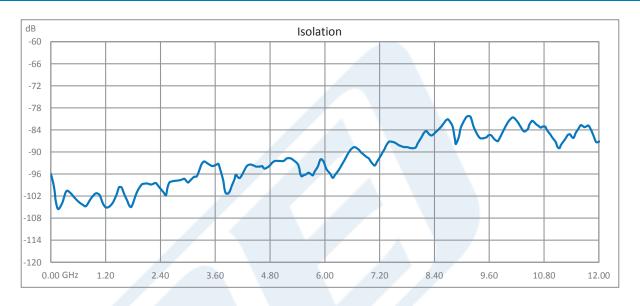
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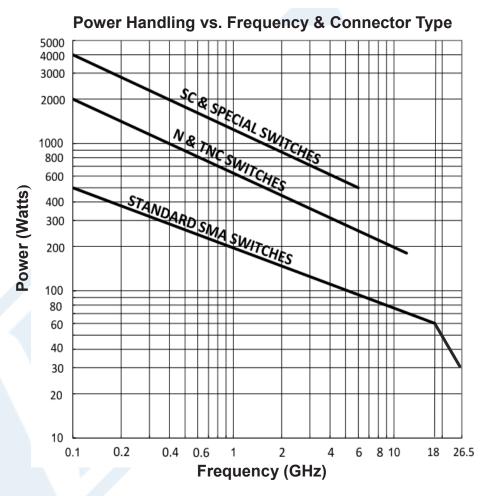
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Environmental and Test Conditions:

- 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, 28V, Indicators, 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-28v-indicators-n-pe71s6399-p. aspx

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PE71S6399 CAD Drawing

SPDT Electromechanical Relay Latching Switch, DC to 12 GHz, up to 600W, 28V, Indicators, N

