



Electromechanical Relay Switches Technical Data Sheet

PE71S6379

Features

- Single Pole Six Throw
- DC to 26.5 GHz Frequency Range
- Isolation greater than 80 dB typical
- 5M Cycle Min Operating Life
- +28 Volt DC
- 90 Watt average Power
- Latching Actuator
- Internally Terminated

Applications

- High Performance Relay Switch
- Military Communications

- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.2 dB Max
- VSWR as low as 1.2:1 max
- SMA Female RF connectors
- 15 Pin D-Sub Connector for DC Control
- Hot Switching Capability Consult Factory
- · S-Parameter Data available upon request
- Communications Systems
- Test & Measurement

Description

The PE71S6379 is a Single Pole Six Throw (SP6T) electromechanical relay switch that operates across a wide frequency range of DC to 26.5 GHz and can handle up to 90 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 80 dB typical. The Latching actuator has 50 Ohm Terminations and a +28 Vdc bias voltage, and operates over a temperature range of -25°C to +70°C. The rugged and compact package assembly supports SMA Female connectors and a 15 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

| | Description | Minimum | Typical | Maximur |
|---|---|---------|---|---------|
| A | witch Type ctuator Type witching Sequence | | SP6T, Termi Latching Break before | |

| Description | Minimum | Typical | Maximum | Units |
|------------------------------|---------|---------|---------|--------|
| Frequency Range | DC | | 26.5 | GHz |
| Impedance | | 50 | | Ohms |
| Termination Impedance | | 50 | | Ohms |
| Operating Voltage | 26 | 28 | 30 | Volts |
| Actuating Current @ 28 Volts | | 90 | | mA |
| VSWR | | 1.2:1 | 1.7:1 | |
| Insertion Loss | | 0.15 | 0.7 | dB |
| Isolation | 70 | 80 | | dB |
| Input Power (CW) | | | 50 | Watts |
| Termination Input Power (CW) | | | 5 | 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: SP6T Electromechanical Relay Latching Switch, Terminated, DC to 26.5 GHz, up to 90W, 28V, SMA PE71S6379

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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| Description | F1 | F2 | F 3 | F4 | F5 | Units | |
|--|----------------------|----------------|--------------|--|----|-------|--|
| Frequency Range | DC to 6 | 6 to 12 | 12 to 18 | 18 to 26.5 | | GHz | |
| VSWR, Max | 1.2:1 | 1.3:1 | 1.4:1 | 1.7:1 | | | |
| Insertion Loss, Max | 0.15 | 0.25 | 0.4 | 0.7 | | dB | |
| Isolation, Min | 80 | 80 | 80 | 70 | | dB | |
| Input Power, Typ (CW) | 90 | 75 | 60 | 50 | | Watts | |
| hanical Specificatio Size | ns | | | | | | |
| Package Type | | | C | Connectorized | | | |
| Operating Life | | | 5 | 5,000,000 Cycles | | | |
| Connectors RF Connector Type Control Connector | | | | MA Female 5 Pin D-Sub | | | |
| ironmental Specifica | ations | | | | | | |
| Temperature Operating Range Storage Range | | | | 25 to +70 deg C 55 to +100 deg (| | | |
| Shock | | | | MIL-STD-202 Method 213, Cond. D 500G Non Op | | | |
| Vibration | | | Ν | ing MIL-STD-202 Method 214, Cond. D 10G RMS No Operating | | | |
| npliance Certification | ns (see produ | ct page for cu | rrent docume | ent) | | | |
| tted and Other Data | | | | | | | |
| Notes: | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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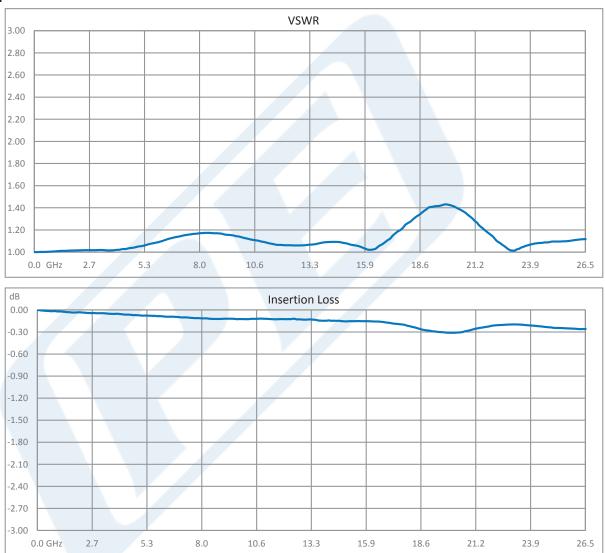
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Typical Performance Data

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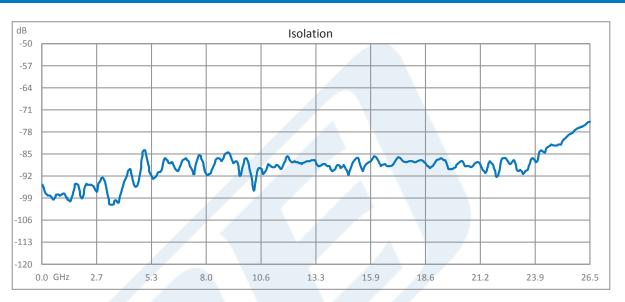
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Power Handling vs. Frequency & Connector Type 5000 4000 3000 SC & SPECIAL SW 2000 1000 TCHE 800 600 STANDARD SMA SWITCHES Power (Watts) 400 300 200 100 80 60 40 30 20 10 0.1 0.2 0.4 0.6 1 2 4 6 8 10 18 26.5 Frequency (GHz) Environmental and Test Conditions:

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

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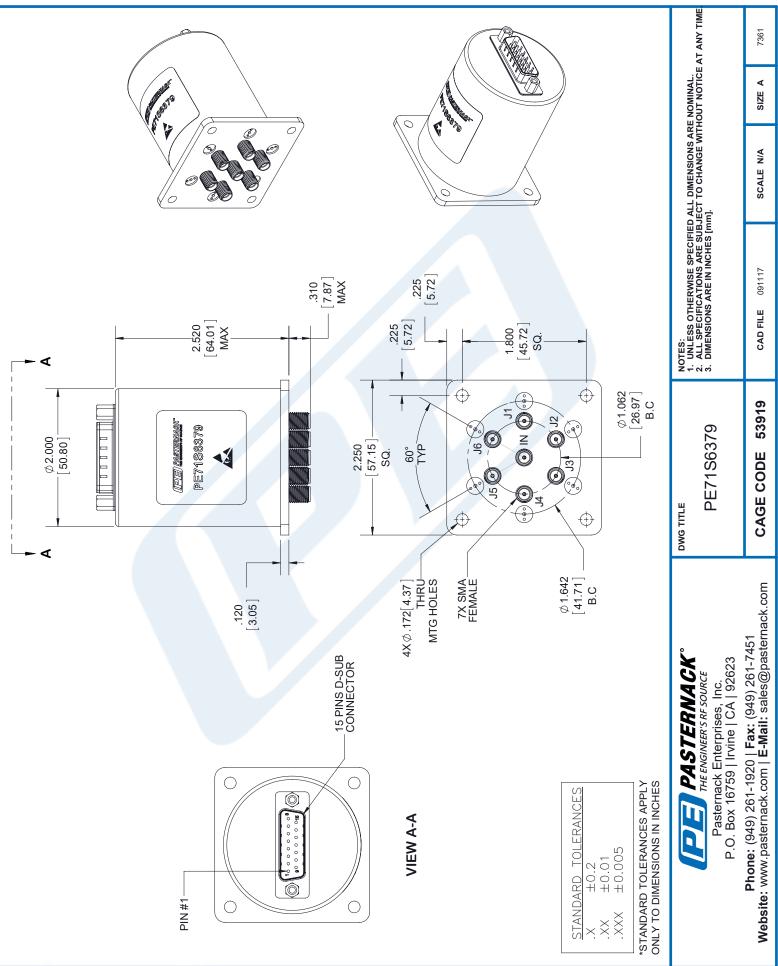
URL: https://www.pasternack.com/sp6t-electromechanical-relay-latching-switch-terminated-26.5-ghz-50w-28v-smape71s6379-p.aspx

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SP6T Electromechanical Relay Latching Switch, Terminated,

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PE71S6379 CAD Drawing SP6T Electromechanical Relay Latching Switch, Terminated,

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