

# Transfer Electromechanical Relay Latching Switch, DC to 12 GHz, up to 430W, 12V, N



## **Electromechanical Relay Switches Technical Data Sheet**

PE71S6387

#### **Features**

- Tranfer (DPDT)
- DC to 12 GHz Frequency Range
- Isolation greater than 80 dB typical
- 5M Cycle Min Operating Life
- +12 Volt DC
- 430 Watt average Power
- · Latching Actuator

- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.2 dB Max
- VSWR as low as 1.2:1 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 PE71S6387 is a Transfer (DPDT) 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 and is rated for 5M life cycles for high reliability operation. Insertion loss is specified from 0.7 dB maximum and Isolation from 60 dB minimum. 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 Transfer Latching

Break before Make

| Minimum | Typical | Maximum                               | Units   |
|---------|---------|---------------------------------------|---|
| DC      |         | 12                                    | GHz   |
|         | 50      |                                       | Ohms  |
| 11      | 12      | 13                                    | Volts   |
|         | 200     |                                       | mA  |
|         | 1.2:1   | 1.7:1                                 |   |
|         | 0.2     | 0.7                                   | dB  |
| 60      | 80      |                                       | dB  |
|         |         | 200                                   | Watts   |
|         |         | 20                                    | ms Max  |
|         | DC 11   | DC 50<br>11 12<br>200<br>1.2:1<br>0.2 | DC 12  50 11 12 13  200  1.2:1 1.7:1  0.2 0.7  60 80  200 |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Transfer Electromechanical Relay Latching Switch, DC to 12 GHz, up to 430W, 12V, N PE71S6387

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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## **Electromechanical Relay Switches Technical Data**

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#### Performance by Frequency

| Description           | F1      | F2     | F3     | F4      | F5 | Units |
|-----------------------|---------|--------|--------|---------|----|-------|
| Frequency Range       | DC to 2 | 2 to 4 | 4 to 8 | 8 to 12 |    | GHz   |
| VSWR, Max             | 1.2:1   | 1.4:1  | 1.5:1  | 1.7:1   |    |       |
| Insertion Loss, Max   | 0.2     | 0.4    | 0.5    | 0.7     |    | dB    |
| Isolation, Min        | 80      | 80     | 70     | 60      |    | dB    |
| Input Power, Typ (CW) | 430     | 300    | 230    | 200     |    | Watts |

#### **Mechanical Specifications**

Size

Package Type Connectorized

Operating Life 5,000,000 Cycles

Connectors

RF Connector Type N Female
Control Connector 9 Pin D-Sub

**Environmental Specifications** 

Temperature

Operating Range -25 to +70 deg C Storage Range -55 to +100 deg C

Shock

Vibration

MIL-STD-202 Method 213, Cond. D 500G Non Operating
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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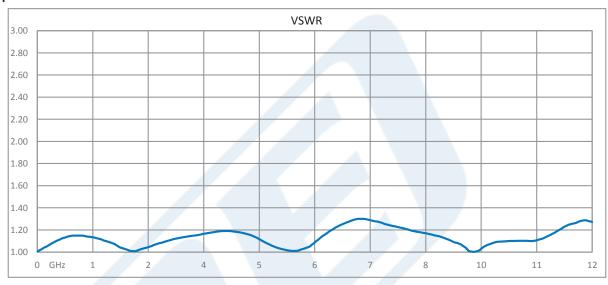
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## **Electromechanical Relay Switches Technical Data**

#### PE71S6387

#### **Typical Performance Data**





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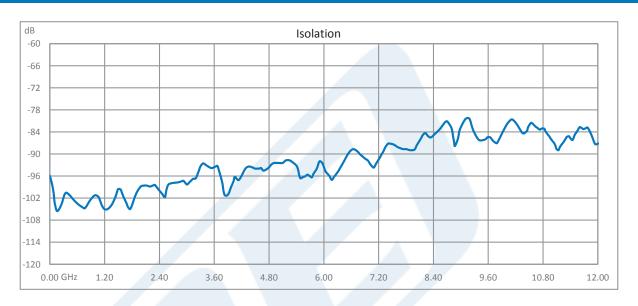


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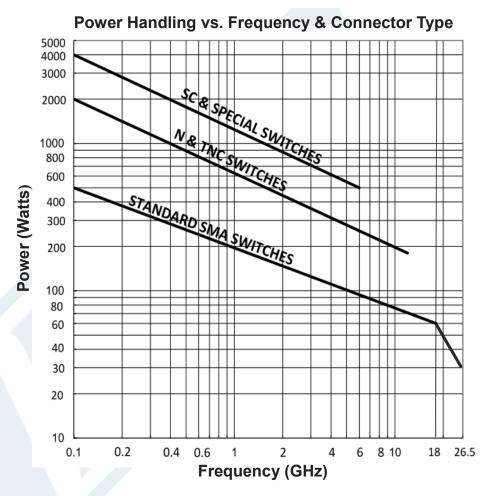


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#### **Environmental and Test Conditions:**

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

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## **Electromechanical Relay Switches Technical Data**

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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Transfer Electromechanical Relay Latching Switch, DC to 12 GHz, up to 430W, 12V, N PE71S6387

URL: https://www.pasternack.com/transfer-electromechanical-relay-latching-switch-12-ghz-200w-12v-n-pe71s6387-p.aspx

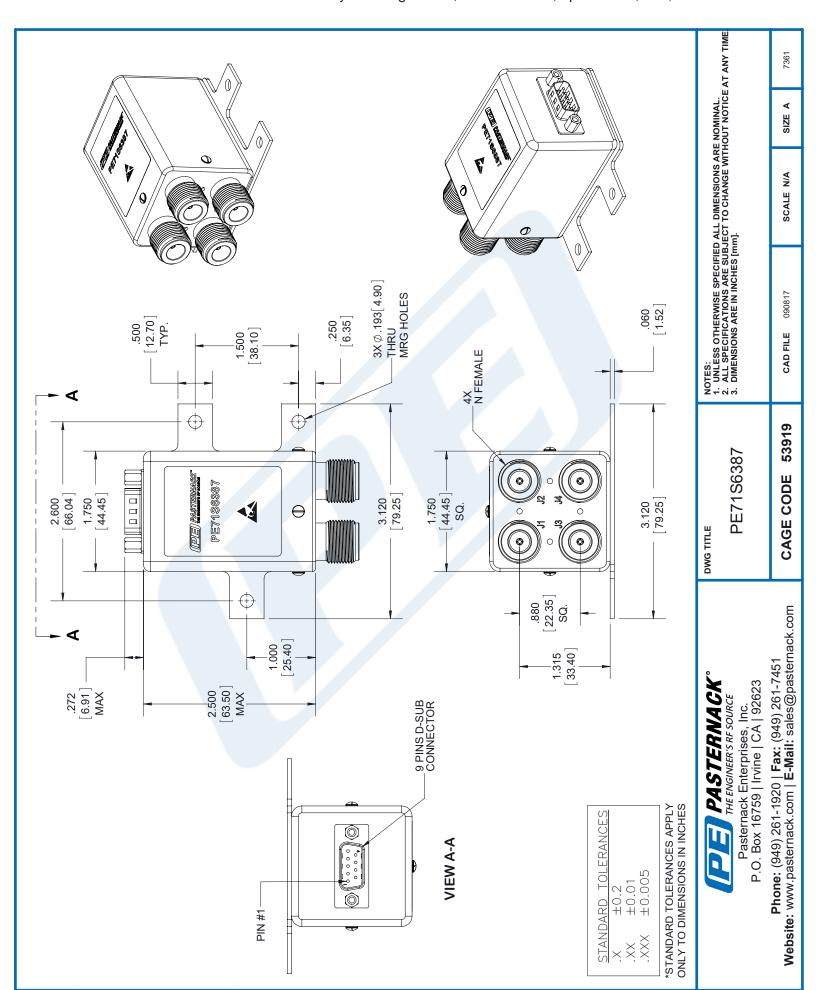
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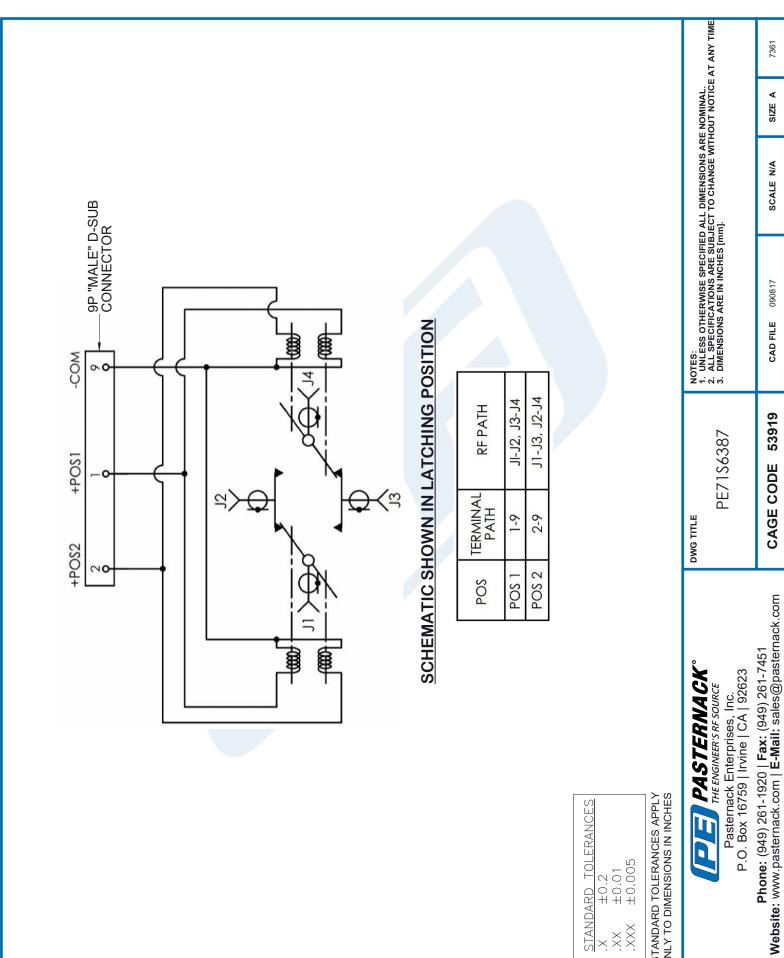
## PE71S6387 CAD Drawing

Transfer Electromechanical Relay Latching Switch, DC to 12 GHz, up to 430W, 12V, N



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\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

±0.005 ±0.2 ±0.01

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