



Electromechanical Relay Switches Technical Data Sheet

PE71S6390

Features

- Tranfer (DPDT)
- DC to 12 GHz Frequency Range
- Isolation greater than 70 dB typical
- 5M Cycle Min Operating Life
- +12 Volt DC
- 90 Watt average Power
- Latching Actuator

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
- 9 Pin D-Sub Connector for DC Control
- Hot Switching Capability Consult Factory
- S-Parameter Data available upon request
- Communications Systems
- Test & Measurement

Description

The PE71S6390 is a Transfer (DPDT) electromechanical relay switch that operates across a wide frequency range of DC to 12 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 0.2 dB typical and isolation greater than 70 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 SMA 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 | | | | | |
|--|---|---------|---------|--------|--|--|
| Description | Minimum | Typical | Maximum | Units | | |
| Frequency Range | DC | | 12 | GHz | | |
| Impedance | | 50 | | Ohms | | |
| Operating Voltage | 11 | 12 | 13 | Volts | | |
| Actuating Current @ 12 Volts | | 200 | | mA | | |
| VSWR | | 1.2:1 | 1.4:1 | | | |
| Insertion Loss | | 0.2 | 0.3 | dB | | |
| Isolation | 60 | 70 | | dB | | |
| Input Power (CW) | | | 75 | 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: Transfer Electromechanical Relay Latching Switch, DC to 12 GHz, up to 90W, 12V, SMA PE71S6390

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 | F3 | F4 | F5 | Units |
|---|-----------------------|-----------------|-------------|-----------------------------------|---------------|------------------|
| Frequency Range | DC to 6 | 6 to 12 | | | | GHz |
| VSWR, Max | 1.2:1 | 1.3:1 | | | | |
| Insertion Loss, Max | 0.2 | 0.3 | | | | dB |
| Isolation, Min | 70 | 60 | | | | dB |
| Input Power, Typ (CW) | 90 | 75 | | | | Watts |
| hanical Specification Size | าร | | | | | |
| Package Type | | | С | onnectorized | | |
| Operating Life | | | 5 | ,000,000 Cycle | es | |
| Connectors RF Connector Type Control Connector | | | | MA Female Pin D-Sub | | |
| ironmental Specifica Temperature Operating Range Storage Range | tions | | | 25 to +70 deg (55 to +100 deg | | |
| Shock | | | N | IIL-STD-202 M | ethod 213, Co | nd. D 500G Non C |
| Vibration | | | in N | g | | nd. D 10G RMS N |
| npliance Certificatior | is (see produc | ct page for cur | rent docume | nt) | | |
| ted and Other Data Notes: | | | | | | |

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VSWR 3.00 2.80 2.60 2.40 2.20 2.00 1.80 1.60 1.40 1.20 1.00 7 0 GHz 2 5 6 8 10 1 4 11 12 dB Insertion Loss 0.00 -0.30 -0.60 -0.90 -1.20 -1.50 1.80 -2.10 -2.40 -2.70 3.00 0.00GHz 1.20 2.40 3.60 4.80 6.00 7.20 8.40 9.60 10.80 12.00

Typical Performance Data

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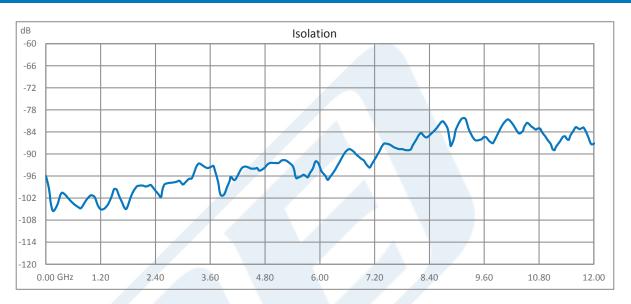
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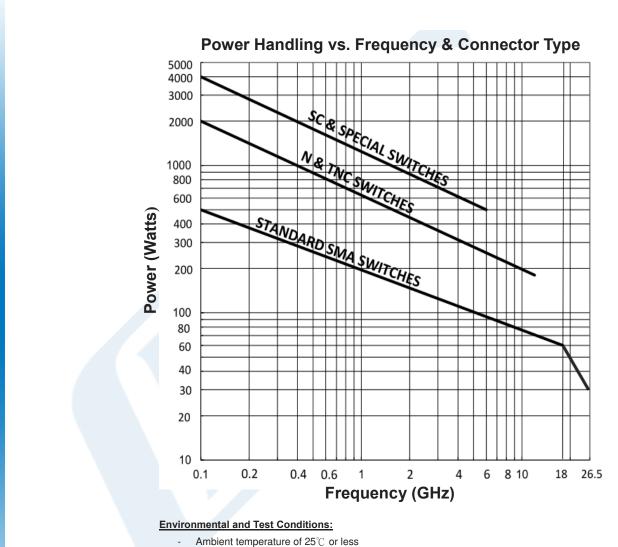
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- Altitude: Sea Level
- Load VSWR: 1.20:1 max.
- Cold Switching

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Transfer Electromechanical Relay Latching Switch, DC to 12 GHz, up to 90W, 12V, SMA 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.

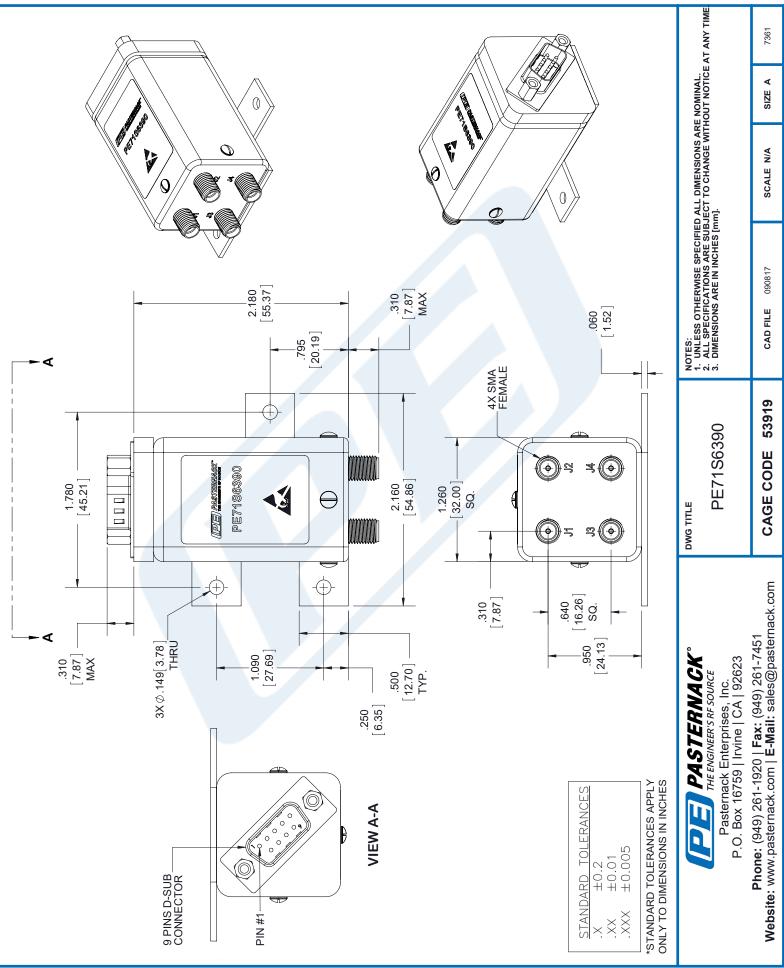
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URL: https://www.pasternack.com/transfer-electromechanical-relay-latching-switch-12-ghz-75w-12v-sma-pe71s6390-p.aspx

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PE71S6390 CAD Drawing Transfer Electromechanical Relay Latching Switch, DC to 12 GHz, up to 90W, 12V, SMA



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