



Electromechanical Relay Switches Technical Data Sheet

PE71S6362

Features

- · Single Pole Three Throw
- DC to 18 GHz Frequency Range
- Isolation greater than 80 dB typical
- 5M Cycle Min Operating Life
- +28 Volt DC
- 90 Watt average Power
- · Latching Actuator

- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.15 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

Applications

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

Description

The PE71S6362 is a Single Pole Three Throw (SP3T) electromechanical relay switch that operates across a wide frequency range of DC to 18 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 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

Switch Type Actuator Type Switching Sequence SP3T Latching Break be

Break before Make

| Description | Minimum | Typical | Maximum | Units | |
|------------------------------|---------|---------|---------|--------|--|
| Frequency Range | DC | | 18 | GHz | |
| Impedance | | 50 | | Ohms | |
| Operating Voltage | 26 | 28 | 30 | Volts | |
| Actuating Current @ 28 Volts | | 90 | | mA | |
| VSWR | | 1.2:1 | 1.4:1 | | |
| Insertion Loss | | 0.15 | 0.4 | dB | |
| Isolation | 80 | 80 | | dB | |
| Input Power (CW) | | | 60 | 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: SP3T Electromechanical Relay Latching Switch, DC to 18 GHz, up to 90W, 28V, SMA PE71S6362

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





Electromechanical Relay Switches Technical Data

PE71S6362

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|---------|---------|----------|----|----|-------|
| Frequency Range | DC to 6 | 6 to 12 | 12 to 18 | | | GHz |
| VSWR, Max | 1.2:1 | 1.3:1 | 1.4:1 | | | |
| Insertion Loss, Max | 0.15 | 0.25 | 0.4 | | | dB |
| Isolation, Min | 80 | 80 | 80 | | | dB |
| Input Power, Typ (CW) | 90 | 75 | 60 | | | Watts |
| | | | | | | |

Mechanical Specifications

Package Type Connectorized 5,000,000 Cycles Operating Life

Connectors

RF Connector Type **SMA Female** Control Connector 15 Pin D-Sub

Environmental Specifications

Temperature

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

Shock

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

Vibration

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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP3T Electromechanical Relay Latching Switch, DC to 18 GHz, up to 90W, 28V, SMA PE71S6362

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



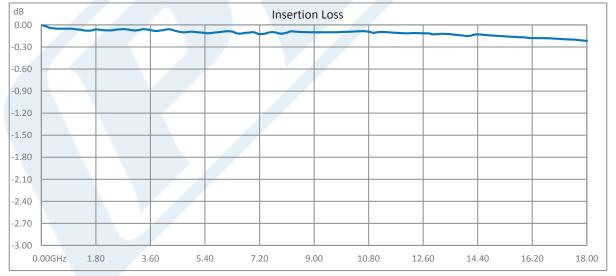


Electromechanical Relay Switches Technical Data

PE71S6362

Typical Performance Data





Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP3T Electromechanical Relay Latching Switch, DC to 18 GHz, up to 90W, 28V, SMA PE71S6362

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623

Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

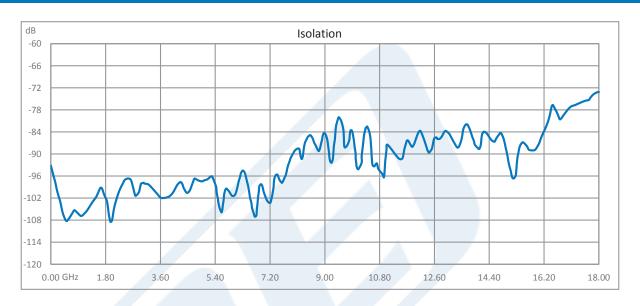
Sales@Pasternack.com • Techsupport@Pasternack.com





Electromechanical Relay Switches Technical Data

PE71S6362



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP3T Electromechanical Relay Latching Switch, DC to 18 GHz, up to 90W, 28V, SMA PE71S6362

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623

Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

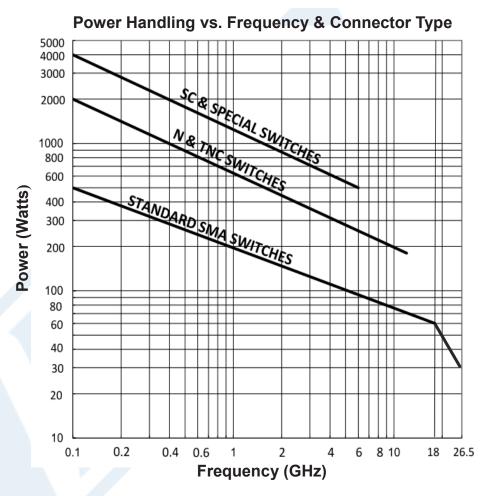
Sales@Pasternack.com • Techsupport@Pasternack.com





Electromechanical Relay Switches Technical Data

PE71S6362



Environmental and Test Conditions:

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP3T Electromechanical Relay Latching Switch, DC to 18 GHz, up to 90W, 28V, SMA PE71S6362

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





Electromechanical Relay Switches Technical Data

PE71S6362

SP3T Electromechanical Relay Latching Switch, DC to 18 GHz, up to 90W, 28V, 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.

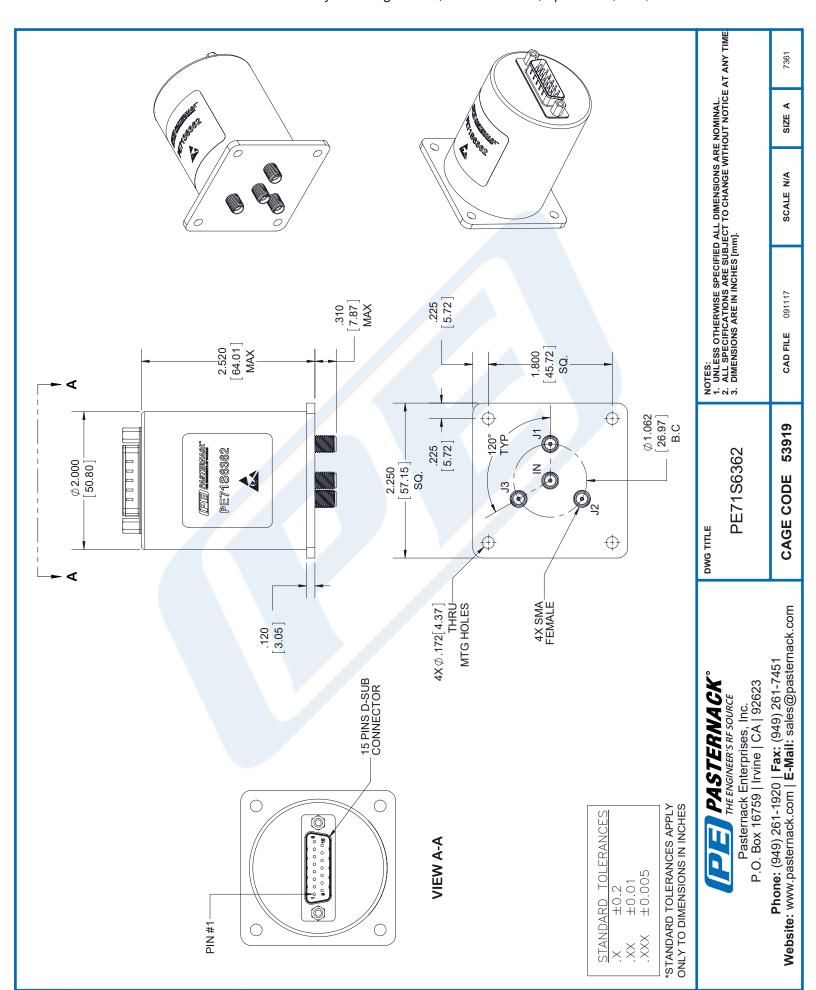
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP3T Electromechanical Relay Latching Switch, DC to 18 GHz, up to 90W, 28V, SMA PE71S6362

URL: https://www.pasternack.com/sp3t-electromechanical-relay-latching-switch-18-ghz-60w-28v-sma-pe71s6362-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

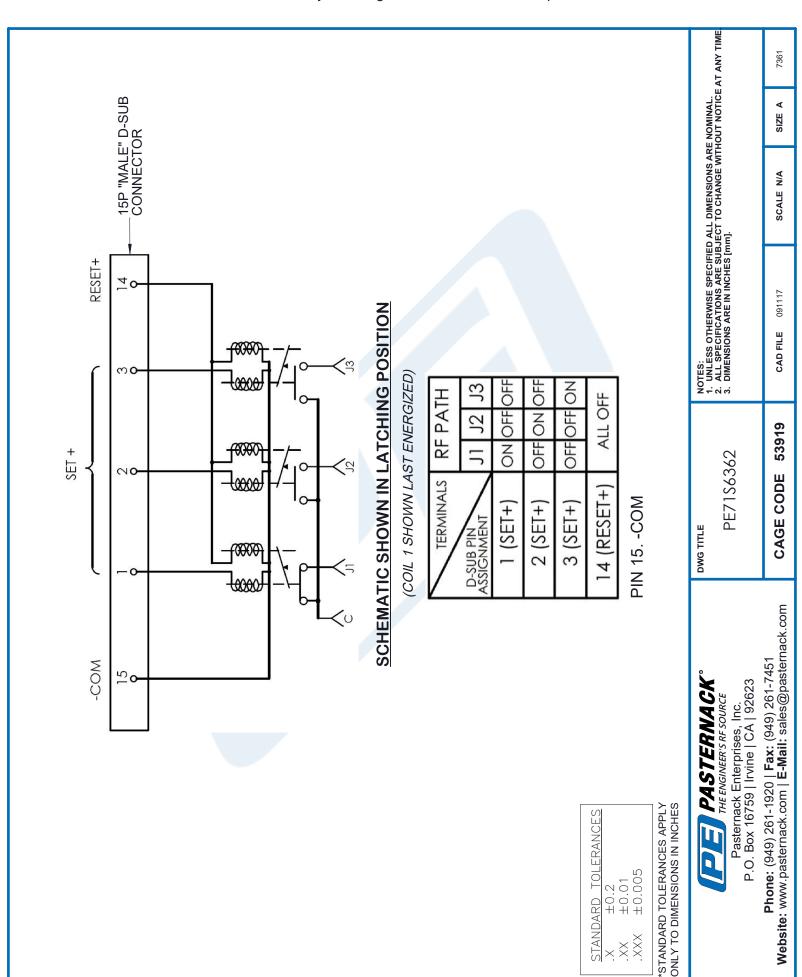
Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com



PE71S6362 CAD Drawing

SP3T Electromechanical Relay Latching Switch, DC to 18 GHz, up to 90W, 28V, SMA



 $\overset{\times}{\times}$ $\overset{\times}{\times}$