SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 26.5 GHz , up to 90 W , 2M Lifecycles, 12 V , TTL, Indicators, SMA


## Features

- Single Pole Double Throw Electromechanical Relay Switch
- DC to 26.5 GHz Frequency Range
- Failsafe Actuator
- TTL Logic Control
- Indicators
- 2M Lifecycle Rating
- Insertion Loss 0.3 dB typ
- Isolation $>80 \mathrm{~dB}$ typ
- Internally Terminated
- VSWR as low as 1.2:1 max
- +12 Volt DC Bias
- Solder Terminal Pins for DC Command Control
- SMA Female Connectors
- $-25^{\circ} \mathrm{C}$ to $+65^{\circ} \mathrm{C}$ Operating Temperature
- Up to 90 Watt Average Power Handling
- 50 Ohm Design
- Hot S witching Capability - Consult F actory
- S-Parameter Data available upon request
- Rugged Design meets Mil-STD-202 Test Conditions


## Applications

- Aerospace \& Defense
- Test \& Measurement
- Microwave Radio Systems
- Military \& Commercial Communication Systems
- Research \& Development
- SATCOM
- Wireless Communications
- Enterprise
- IoT


## Description

The PE71S 6468 is a Single Pole Double Throw (SP2T) electromechanical relay switch that operates across a wide frequency range of DC to 26.5 GHz and can handle up to 90 W of Average power in a break before make condition. The design is rated for 2 million lifecycles and features a Failsafe Actuator. The output port is terminated in 50 ohms when swtiched in the isolation (off) state. Additional features include TTL control logic, and indicators. Impressive typical performance includes 0.3 dB insertion loss and isolation greater than 80 dB . This switch requires +12 Vdc bias voltage and operates over a temperature range of $-25^{\circ} \mathrm{C}$ to $+65^{\circ} \mathrm{C}$. The rugged and compact package assembly supports SMA female connectors and solder terminal pins for DC command control functions. And for highly reliable operation, 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
TTL Control

SPDT, Terminated
Failsafe
Break Before Make
Indicators, TTL Logic
on: 2.4 to 5.5 Volts
off: 0 to 0.8 Volts

| Description | Minimum | Typical | Maximum | Units |
| :--- | :---: | :---: | :---: | :---: |
| Frequency Range | DC |  | 26.5 | GHz |
| Impedance | 11 | 50 |  | Ohms |
| Operating Voltage |  | 12 | 13 | Volts |
| Actuating Set Current @ 12 Volts | $1.3: 1$ | 420 | mA |  |
| VSWR |  | $1.7: 1$ |  |  |

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 Failsafe Switch, Terminated, DC to 26.5 GHz , up to 90W, 2M Lifecycles, 12V, TTL, Indicators, SMA PE71S 6468

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Electromechanical Relay Switches Technical Data
PE71S6468


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## Typical Performance Data




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## Electromechanical Relay Switches Technical Data

SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 26.5 GHz , up to 90 W , 2 M Lifecycles, 12 V , TTL, Indicators, 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/spdt-electromechanical-relay-failsafe-switch-terminated-26.5-ghz-12v-indicators-ttl-sma-pe71s6468-p.aspx


#### Abstract

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.






| POS | RF PATH | TERMINATION |
| :---: | :---: | :---: |
| NC | C-NC | NO TERMINATED |
| NO | C-NO | NC TERMINATED |





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