



## Electromechanical Relay Switches Technical Data Sheet

PE71S6430

#### **Features**

- Single Pole Double Throw Electromechanical Relay Switch
- DC to 26.5 GHz Frequency Range
- · Failsafe Actuator
- · 2M Lifecycle Rating
- Insertion Loss 0.35 dB typ
- Isolation > 80 dB typ
- VSWR 1.4:1 typ
- +24 Volt DC Bias

- Solder Terminal Pins for DC Control
- SMA Female Connectors
- -25°C to +65°C Operating Temperature
- Up to 90 Watt Average Power Handling
- 50 Ohm Design
- Hot Switching Capability Consult Factory
- · 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 PE71S6430 is a Single Pole Double Throw (SPDT) 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 50 Ohm design features a Failsafe Actuator and is rated for 2 million lifecycles. Impressive typical performance includes 0.35 dB insertion loss and isolation greater than 80 dB. This switch requires +24Vdc bias voltage and operates over a temperature range of -25°C to +65°C. The rugged and compact package assembly supports SMA female connectors and solder terminal pins for DC control. 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 SPDT
Actuator Type Failsafe
Switching Sequence Break before Make

**Description Minimum Typical Maximum Units** Frequency Range DC 26.5 GHz Impedance Ohms 50 Volts Operating Voltage 22 24 26 Actuating Set Current @ 24 Volts 110 mΑ At +20°C **VSWR** 1.4:1 1.7:1 Insertion Loss 0.35 0.6 Isolation 80 dB Input Power (CW) 90 Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SPDT Failsafe DC to 26.5 GHz Electro-Mechanical Relay Switch, Up To 90W, 24V, 2M Lifecycles, SMA PE71S6430

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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Switching Time	20	ms Max

#### **Performance by Frequency**

F1	F2	F3	F4	F5	Units
DC to 6	6 to 12	12 to 18	18 to 26.5		GHz
1.2:1	1.3:1	1.4:1	1.7:1		
0.15	0.25	0.35	0.6		dB
80	70	60	50		dB
	DC to 6 1.2:1 0.15	DC to 6 6 to 12 1.2:1 1.3:1 0.15 0.25	DC to 6     6 to 12     12 to 18       1.2:1     1.3:1     1.4:1       0.15     0.25     0.35	DC to 6     6 to 12     12 to 18     18 to 26.5       1.2:1     1.3:1     1.4:1     1.7:1       0.15     0.25     0.35     0.6	DC to 6     6 to 12     12 to 18     18 to 26.5       1.2:1     1.3:1     1.4:1     1.7:1       0.15     0.25     0.35     0.6

### Mechanical Specifications

Size

Weight 0.5 lbs [226.8 g]
Body Material and Plating Aluminum
Package Type Connectorized

Operating Life 2,000,000 Cycles

Connectors

RF Connector Type SMA Female
Control Connector Solder Terminals

#### **Environmental Specifications**

**Temperature** 

Operating Range -25 to +65 deg C Storage Range -55 to +100 deg C

Humidity Moisture Resistance

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

Vibration MIL-STD-202 Method 204, Cond. D 10G RMS Non

Operating

#### Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

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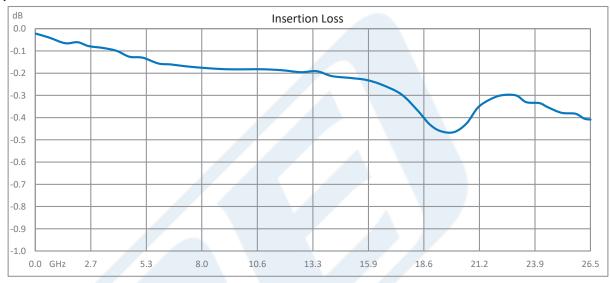


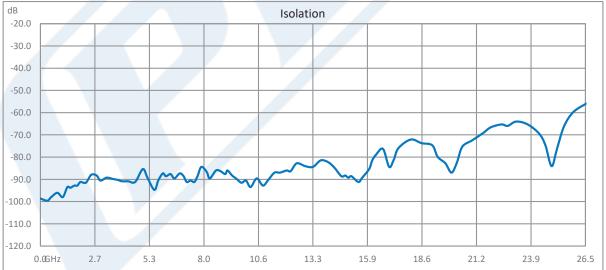


# Electromechanical Relay Switches Technical Data

### PE71S6430

#### **Typical Performance Data**





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PE71S6430 REV 1.1

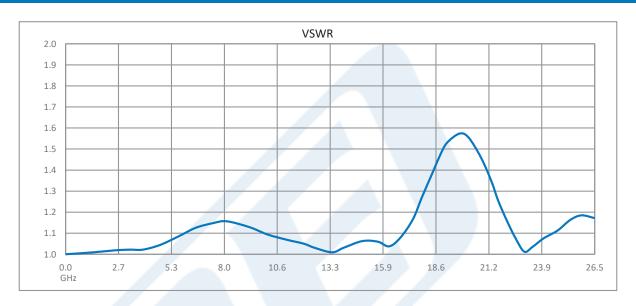
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SPDT Failsafe DC to 26.5 GHz Electro-Mechanical Relay Switch, Up To 90W, 24V, 2M Lifecycles, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% 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-26.5-ghz-90w-24v-sma-pe71s6430-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.

## PE71S6430 CAD Drawing

SPDT Failsafe DC to 26.5 GHz Electro-Mechanical Relay Switch, Up To 90W, 24V, 2M Lifecycles, SMA

