

SPDT Electromechanical Relay Failsafe Switch, DC to 40 GHz, up to 80W, 28V Indicators, 2.92mm



Electromechanical Relay Switches Technical Data Sheet

PE71S6056

Features

- Single Pole Double Throw Relay Switch
- DC to 40 GHz Frequency Range
- 10M Cycle Min Operating Life
- 10 Watt Avg Power Max

- -40 to +85 Deg C Operating Temperature
- Insertion Loss 0.8 dB Max
- VSWR 1.9:1 Max

Applications

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

Description

The PE71S6056 is a Single Pole Double Throw Electromechanical Relay Switch that operates from DC to 40 GHz and can handle up to 80 Watts of CW input power in a Break Before Make condition. The design features a Failsafe Actuator with Position Indicators and is rated for 10M Life Cycles for high reliability operation. Insertion loss is specified from 0.3 dB max and Isolation from 70 dB min, with +28 Vdc operating voltage. Performance is guaranteed over -40°C to +85°C and the switch assembly is RoHS and REACH compliant. The package interface uses solder terminals and 2.92mm Female connectors.

Electrical Specifications

Switch Type
Actuator Type
Switching Sequence
Actuator Options
Indicator Rating

SPDT Failsafe Break before Make Indicators

1 Watts / 30 Volts / 100 mA

Description	Minimum Typical		Maximum	Units	
Frequency Range	DC		40	GHz	
Impedance		50		Ohms	
Operating Voltage	24	28	30	Volts	
Actuating Current @ 28 Volts		102		mA	
VSWR			1.9:1		
Insertion Loss			0.8	dB	
Isolation	50			dB	
Input Power (CW)			10	Watts	
Switching Time			10	ms Max	

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, DC to 40 GHz, up to 80W, 28V Indicators, 2.92mm PE71S6056

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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Performance by Frequency

F1	F2	F3	F4	F5	Units
DC to 6	6 to 12.4	12.4 to 18	18 to 26.5	26.5 to 40	GHz
1.3:1	1.4:1	1.5:1	1.7:1	1.9:1	
0.3	0.4	0.5	0.7	0.8	dB
70	60	60	55	50	dB
80	60	50	20	10	Watts
	DC to 6 1.3:1 0.3 70	DC to 6 6 to 12.4 1.3:1 1.4:1 0.3 0.4 70 60	DC to 6 6 to 12.4 12.4 to 18 1.3:1 1.4:1 1.5:1 0.3 0.4 0.5 70 60 60	DC to 6 6 to 12.4 12.4 to 18 18 to 26.5 1.3:1 1.4:1 1.5:1 1.7:1 0.3 0.4 0.5 0.7 70 60 60 55	DC to 6 6 to 12.4 12.4 to 18 18 to 26.5 26.5 to 40 1.3:1 1.4:1 1.5:1 1.7:1 1.9:1 0.3 0.4 0.5 0.7 0.8 70 60 60 55 50

Electrical Specification Notes:

Average Power and Actuating Current values at 25°C.

Mechanical Specifications

Size

 Length
 1.5 in [38.1 mm]

 Width/Diameter
 1.5 in [38.1 mm]

 Height
 0.5 in [12.7 mm]

 Weight
 0.0112 lbs [5.08 g]

 Package Type
 Connectorized

 Operating Life
 10,000,000 Cycles

Connectors

RF Connector Type 2.92mm Female
RF Connector Specification MIL C 39012
Control Connector Solder Pin

Mechanical Specification Notes: Solder Pins: 250°C max/30sec.

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C Storage Range -55 to +85 deg C

Construction Splashproof

Shock MIL-STD-202, Method 213B, Cond.C Vibration MIL-STD-202, Method 204D, Cond.D

Environmental Specification Notes:

Environmental specifications are guaranteed but not tested.

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Compliance Certifications (see product page for current document)

Plotted and Other Data

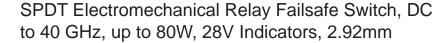
Notes:

• Values shown are typical at 25°C.

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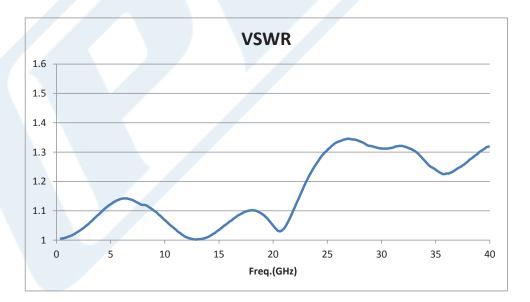


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Typical Performance Data





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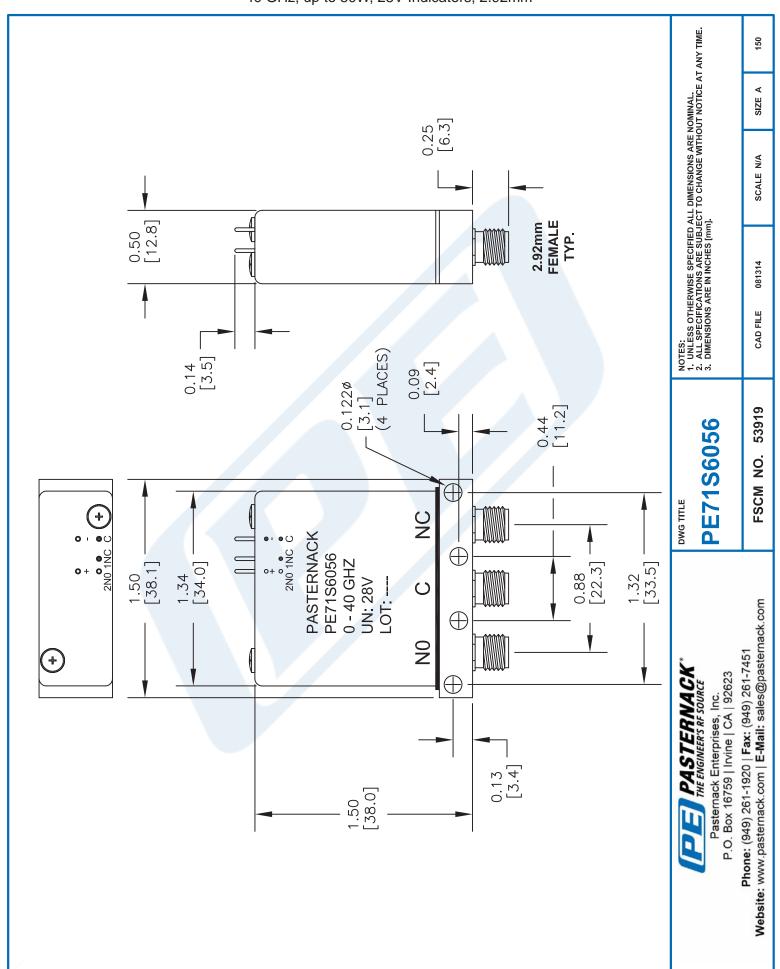
URL: https://www.pasternack.com/2.92mm-spdt-electromechanical-relay-switch-40-ghz-indicators-pe71s6056-p.aspx

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PE71S6056 CAD Drawing

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