



Electromechanical Relay Switches Technical Data Sheet

PE71S6400

Features

- Tranfer (DPDT)
- · DC to 18 GHz Frequency Range
- · 2M Cycle Min Operating Life
- +28 Volt DC
- · 90 Watt Max Power
- · Failsafe Actuator

- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.3 dB Max
- VSWR 1.4:1 Max
- SMA Female RF connectors
- · Solder Pin control connection

Applications

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

Description

The PE71S6400 is a Transfer (DPDT) 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 Failsafe actuator and is rated for 2M life cycles for high reliability operation. Insertion loss is specified as low as 0.2 dB and Isolation up to 70 dB minimum. The Failsafe 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 Solder Pins for command control capability. And for highly reliable operation, the model is guranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

Electrical Specifications (TA = +25°C, DC Voltage = +28 Vdc)

Switch Type

Actuator Type

Switching Sequence

Transfer

Failsafe

Break before Make

Description	Minimum	Typical	Maximum	Units	
Frequency Range	DC		18	GHz	
Impedance		50		Ohms	
Operating Voltage	+26	+28	+30	Volts	
Actuating Set Current @ +28 Volts		100	160	mA	
VSWR		1.2:1	1.4:1		
Insertion Loss		0.2	0.5	dB	
Isolation	60	70		dB	
Input Power (CW)			90	Watts	
Switching Time			20	ms Max	







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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	, ite.		
Insertion Loss, Max	0.2	0.3	0.5			dB
Isolation, Min	70	60	60			dB
Input Power, Typ (CW)	90	75	60			Watts

Mechanical Specifications

Size

Length Width/Diameter

Height

Weight

Body Material and Plating

Package Type

Operating Life

Connectors

RF Connector Type

RF Connector Contact Material and Plating RF Connector Body Material and Plating

Control Connector

SMA Female

0 in [0 mm]

0 in [0 mm]

0 in [0 mm]

Aluminum

Connectorized

2,000,000 Cycles

0.737 lbs [334.3 g]

Beryllium Copper, Gold

Aluminum, Nickel

Solder Pin

Environmental Specifications

Temperature

Operating Range Storage Range

-25 to +70 deg C

-55 to +100 deg C

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: Transfer Electromechanical Relay Failsafe Switch, DC to 18 GHz, up to 90W, 28V, SMA PE71S6400



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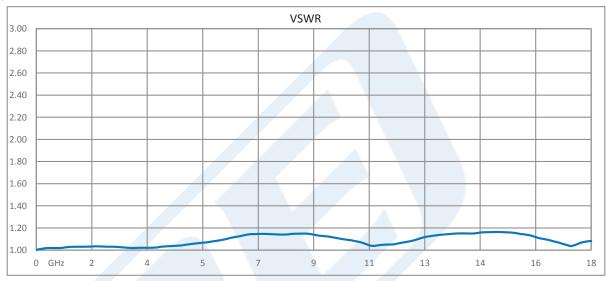


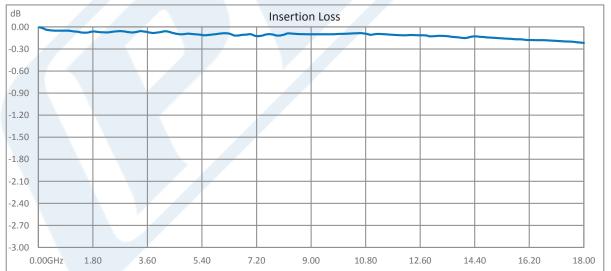


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Typical Performance Data





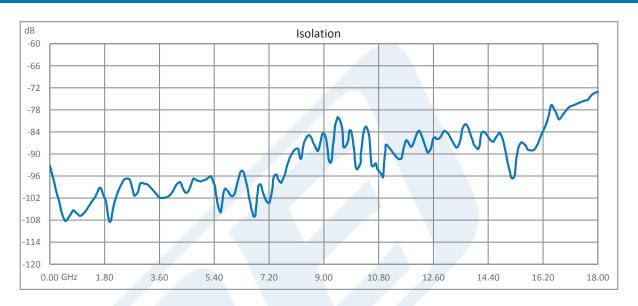






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PE71S6400



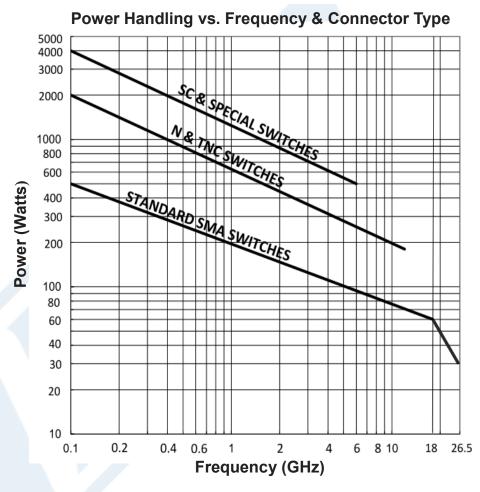






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Environmental and Test Conditions:

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







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PE71S6400

Transfer Electromechanical Relay Failsafe 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.

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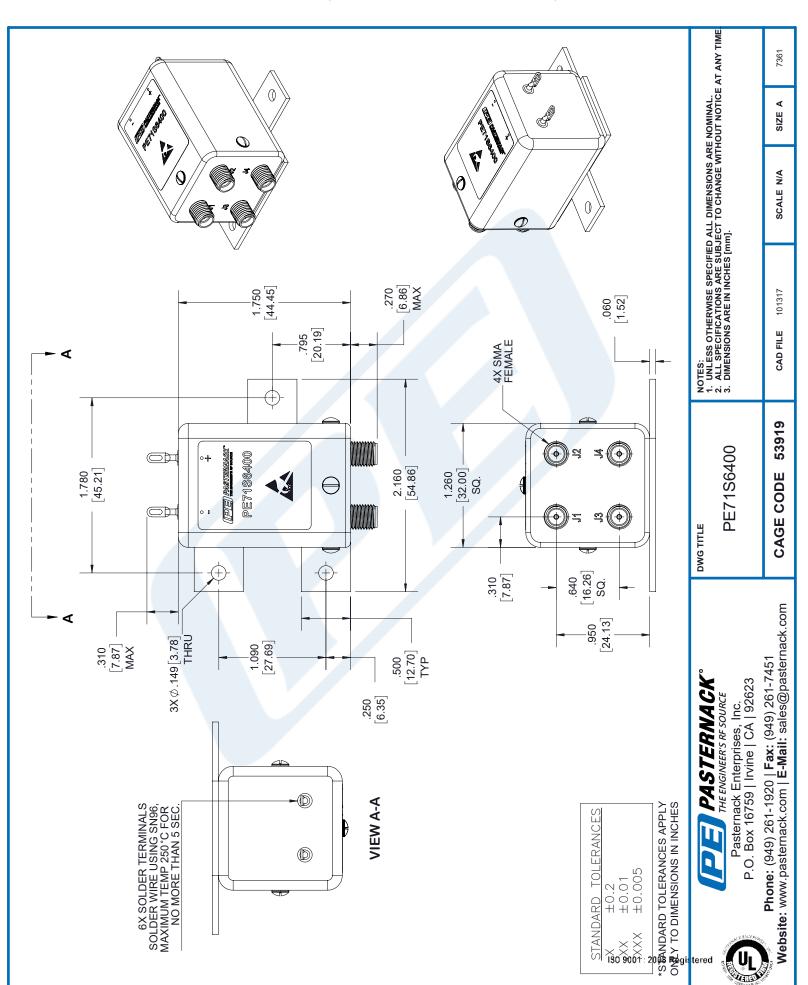
URL: https://www.pasternack.com/transfer-electromechanical-relay-failsafe-switch-18-ghz-60w-28v-sma-pe71s6400-p.aspx

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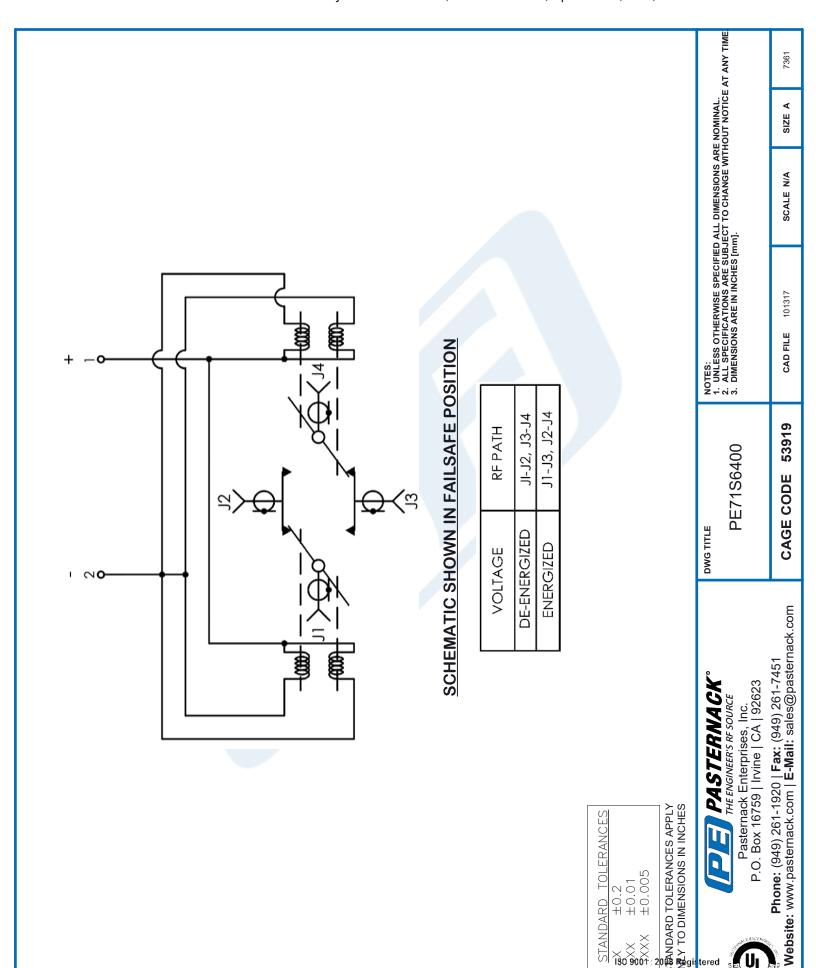
PE71S6400 CAD Drawing

Transfer Electromechanical Relay Failsafe Switch, DC to 18 GHz, up to 90W, 28V, SMA



PE71S6400 CAD Drawing

Transfer Electromechanical Relay Failsafe Switch, DC to 18 GHz, up to 90W, 28V, SMA



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