

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



Electromechanical Relay Switches Technical Data Sheet

PE71S6402

Features

- Tranfer (DPDT)
- DC to 18 GHz Frequency Range
- · Isolation greater than 70 dB typical
- 5M Cycle Min Operating Life
- +28 Volt DC
- · 90 Watt average Power
- · Latching Actuator
- 1 Watt Indicators

- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.2 dB Max
- VSWR as low as 1.2:1 max
- SMA Female RF connectors
- Solder Pins 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 PE71S6402 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 Latching actuator with 1W Indicators, and is rated for 5M life cycles for high reliability operation. Insertion loss is specified as low as 0.2 dB maximum and Isolation up to 70 dB minimum. Operating voltage is +28 V and performance is guaranteed over -25°C to +70°C. The rugged and compact package assembly supports SMA Female connectors and Solder Pins for DC Control. 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
Indicator Rating

Transfer Latching

Break before Make

Indicators

1 Watts / 32 Volts / 125 mA

DC			
50		18	GHz
	50		Ohms
26	28	30	Volts
	90		mA
	1.2:1	1.4:1	
	0.2	0.5	dB
60	70		dB
		60	Watts
		20	ms Max
		26 28 90 1.2:1 0.2	26 28 30 90 1.2:1 1.4:1 0.2 0.5 60 70

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 Latching Switch, DC to 18 GHz, up to 90W, 28V, Indicators, SMA PE71S6402

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	12 to 18			GHz
1.2:1	1.3:1	1.4:1	:00		
0.2	0.3	0.5			dB
70	60	60			dB
90	75	60			Watts
	DC to 6 1.2:1 0.2 70	DC to 6 6 to 12 1.2:1 1.3:1 0.2 0.3 70 60	DC to 6 6 to 12 12 to 18 1.2:1 1.3:1 1.4:1 0.2 0.3 0.5 70 60 60	DC to 6 6 to 12 12 to 18 1.2:1 1.3:1 1.4:1 0.2 0.3 0.5 70 60 60	DC to 6 6 to 12 12 to 18 1.2:1 1.3:1 1.4:1 0.2 0.3 0.5 70 60 60

Mechanical Specifications

Package Type Connectorized 5,000,000 Cycles Operating Life

Connectors

RF Connector Type **SMA Female** Control Connector Solder Pin

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

Operating

Compliance Certifications (see product page for current document)

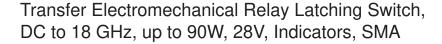
Plotted and Other Data

Notes:

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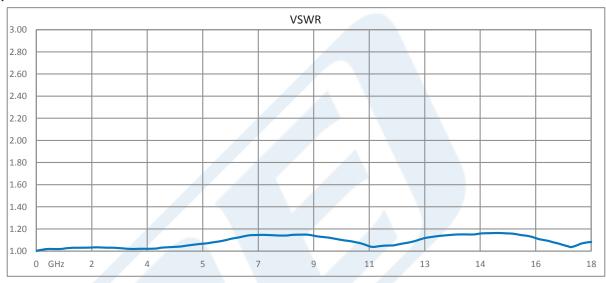


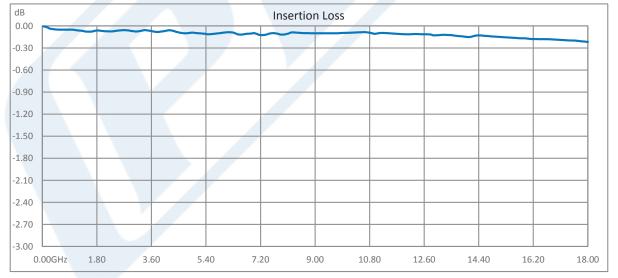


Electromechanical Relay Switches Technical Data

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Typical Performance Data





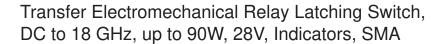
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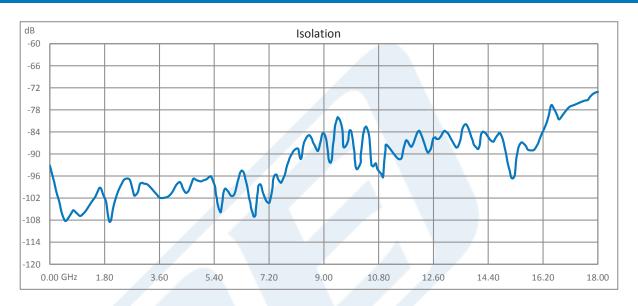






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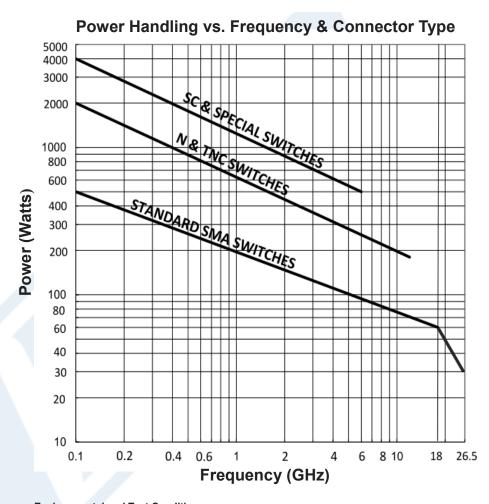


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Environmental and Test Conditions:

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

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Transfer Electromechanical Relay Latching Switch, DC to 18 GHz, up to 90W, 28V, 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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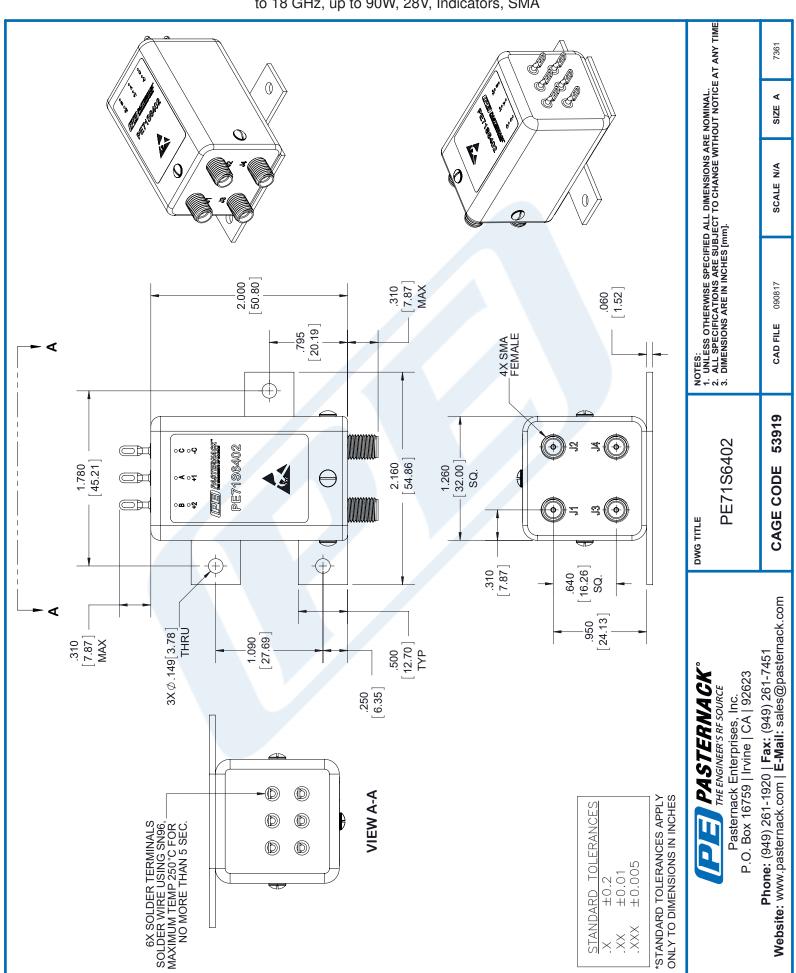
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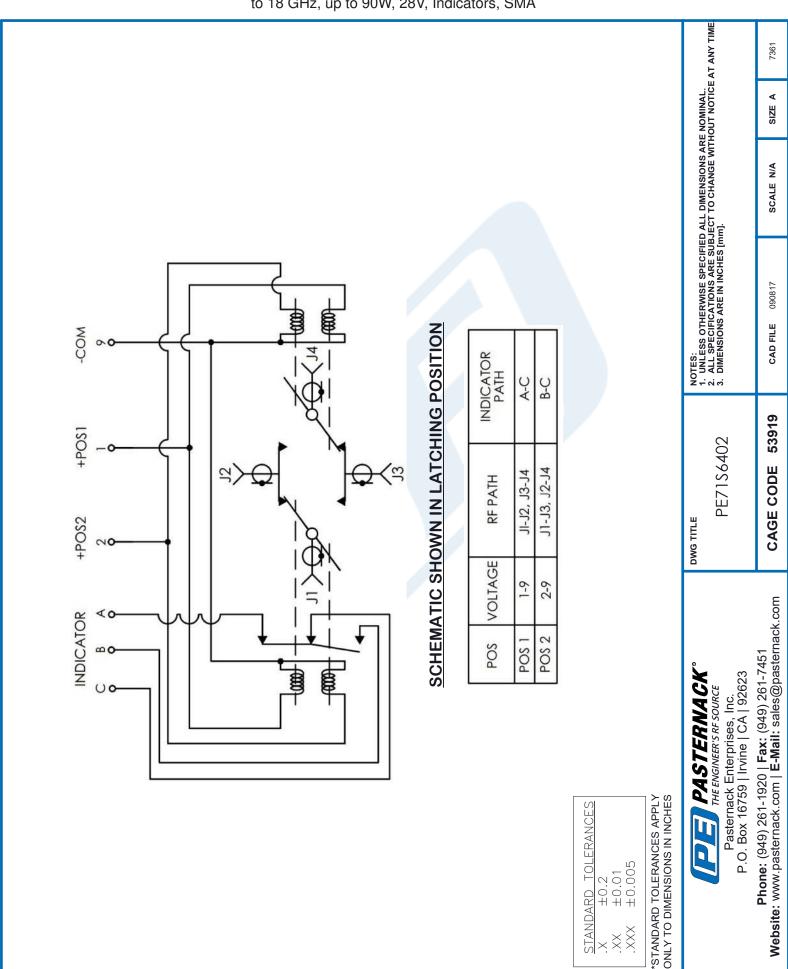
PE71S6402 CAD Drawing

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