



Electromechanical Relay Switches Technical Data Sheet

PE71S6389

Features

- Tranfer (DPDT)
- DC to 18 GHz Frequency Range
- Isolation greater than 70 dB typical
- 2M Cycle Min Operating Life
- +24 Volt DC
- 90 Watt average Power
- · Failsafe Actuator

- -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
- 9 Pin D-Sub Connector 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 PE71S6389 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. Impressive performance includes insertion loss less than 0.2 dB typical and isolation greater than 70 dB typical. The Failsafe actuator has a +24 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 a 9 Pin D-Sub Connector for DC Control. And for highly reliable operation, the model is guranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

Electrical Specifications

Switch Type **Actuator Type** Switching Sequence

Transfer Failsafe

Break before Make

Minimum	Typical	Maximum	Units
DC		18	GHz
	50		Ohms
22	24	26	Volts
	110		mA
	1.2:1	1.4:1	
	0.2	0.5	dB
60	70		dB
		60	Watts
		20	ms Max
	DC 22	DC 50 22 24 110 1.2:1 0.2	DC 18 50 22 24 26 110 1.2:1 1.4:1 0.2 0.5 60 70 60

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, 24V, SMA PE71S6389

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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

Package Type Connectorized

Operating Life 2,000,000 Cycles

Connectors

RF Connector Type SMA Female Control Connector 9 Pin D-Sub

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

Vibration

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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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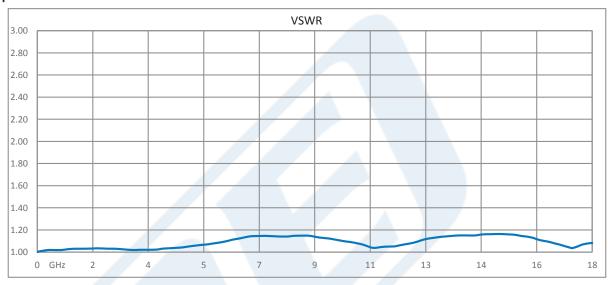


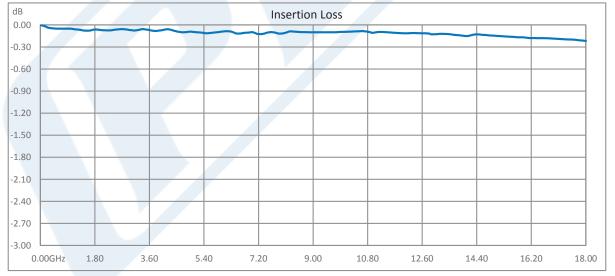


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Typical Performance Data





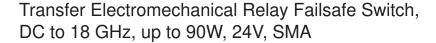
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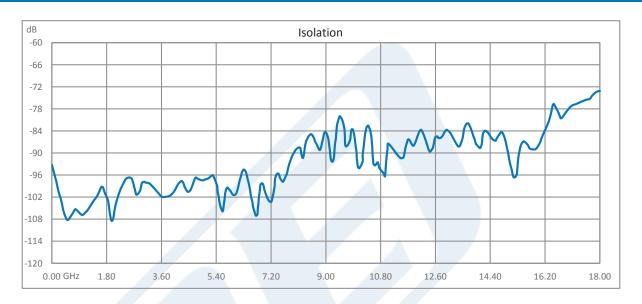






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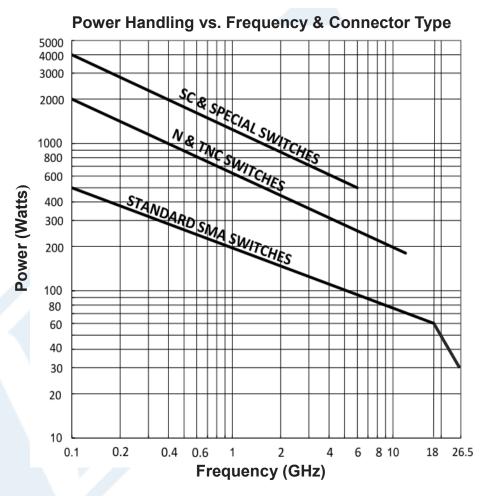
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Environmental and Test Conditions:

- 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 Failsafe Switch, DC to 18 GHz, up to 90W, 24V, 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.

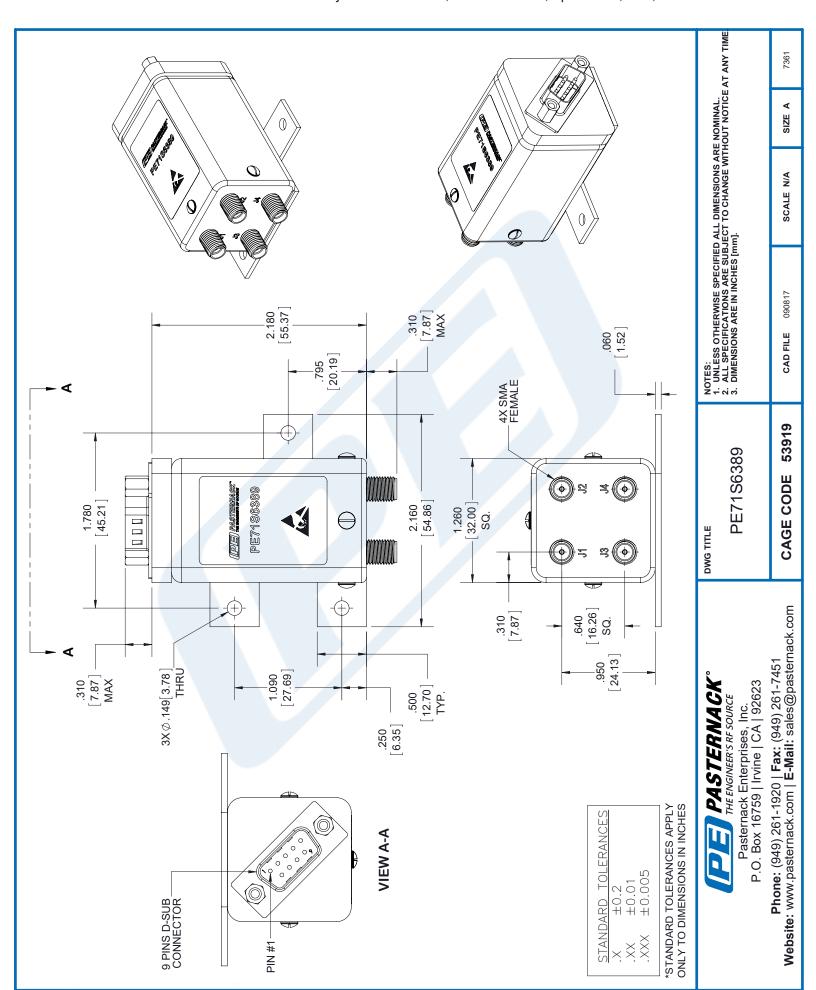
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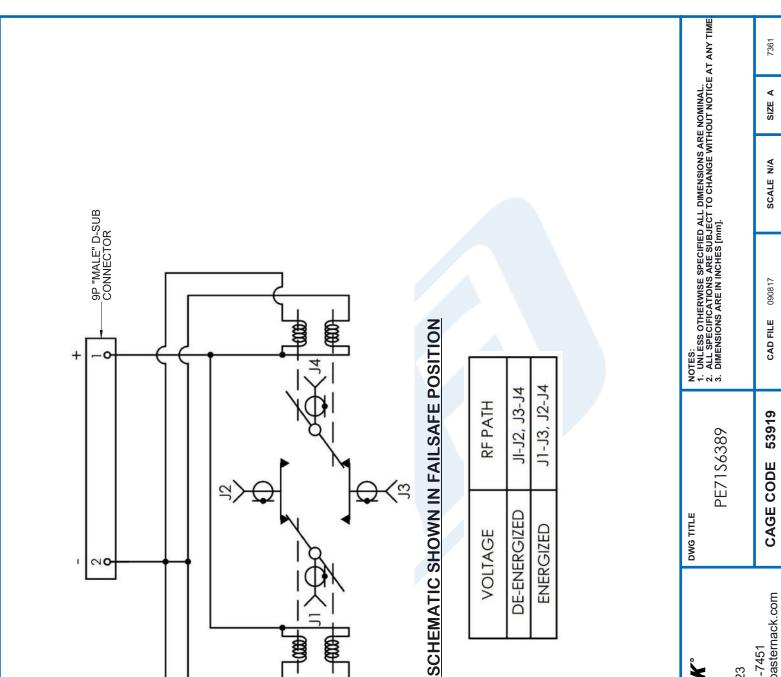
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PE71S6389 CAD DrawingTransfer Electromechanical Relay Failsafe Switch, DC to 18 GHz, up to 90W, 24V, SMA





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