



Electromechanical Relay Switches Technical Data Sheet

PE71S6391

Features

- Single Pole Double Throw
- DC to 18 GHz Frequency Range
- Isolation greater than 80 dB typical
- 2M Cycle Min Operating Life
- +28 Volt DC
- 90 Watt average Power
- Failsafe Actuator

- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.15 dB Max
- VSWR as low as 1.2:1 max
- SMA Female RF connectors
- Solder Pins 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 PE71S6391 is a (SPDT) 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 0.15 dB typical and isolation greater than 80 dB typical. 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 a Solder Pins 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 SPDT Failsafe

Break before Make

DC		18	GHz
		. 0	GHZ
	50		Ohms
26	28	30	Volts
	90		mA
	1.2:1	1.4:1	
	0.15	0.35	dB
65	80		dB
		60	Watts
		20	ms Max
		90 1.2:1 0.15	90 1.2:1 1.4:1 0.15 0.35 65 80 60

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 18 GHz, up to 90W, 28V, SMA PE71S6391

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	450.		
0.15	0.25	0.4			dB
80	75	65			dB
90	75	60			Watts
	DC to 6 1.2:1 0.15 80	DC to 6 6 to 12 1.2:1 1.3:1 0.15 0.25 80 75	DC to 6 6 to 12 12 to 18 1.2:1 1.3:1 1.4:1 0.15 0.25 0.4 80 75 65	DC to 6 6 to 12 12 to 18 1.2:1 1.3:1 1.4:1 0.15 0.25 0.4 80 75 65	DC to 6 6 to 12 12 to 18 1.2:1 1.3:1 1.4:1 0.15 0.25 0.4 80 75 65

Mechanical Specifications

Size

Body Material and Plating
Package Type
Aluminum
Connectorized
Operating Life
2,000,000 Cycles

Connectors

RF Connector Type

RF Connector Contact Material and Plating

RF Connector Body Material and Plating

SMA Female

Beryllium Copper, Gold

Aluminum, Nickel

RF Connector Body Material and Plating Aluminum,
Control Connector Solder Pin

Environmental Specifications

Temperature

Operating Range -25 to +70 deg C Storage Range -55 to +100 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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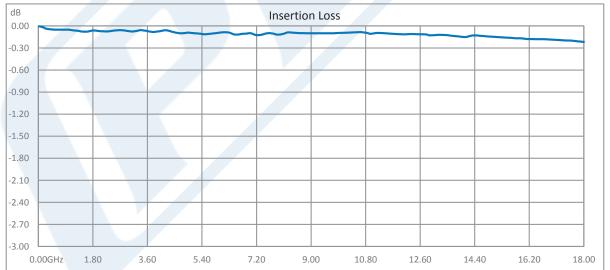


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Typical Performance Data





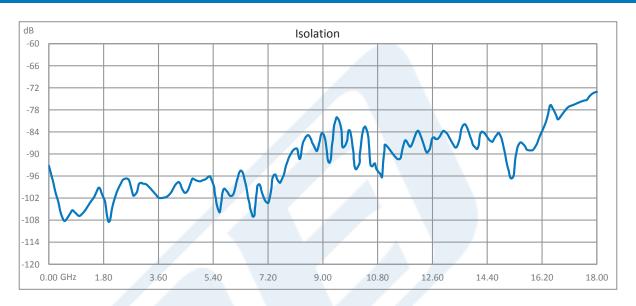
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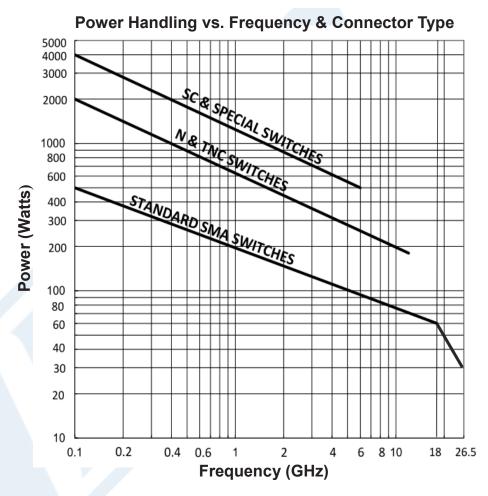
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Environmental and Test Conditions:

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

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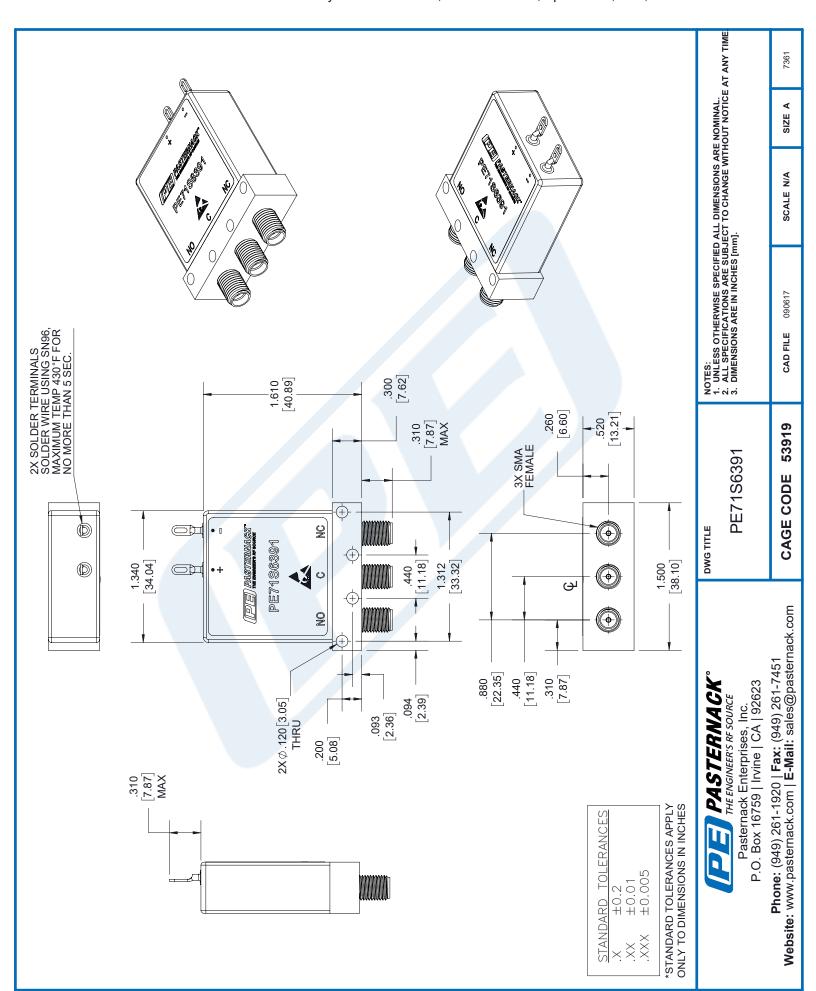
SPDT Electromechanical Relay Failsafe Switch, DC to 18 GHz, up to 90W, 28V, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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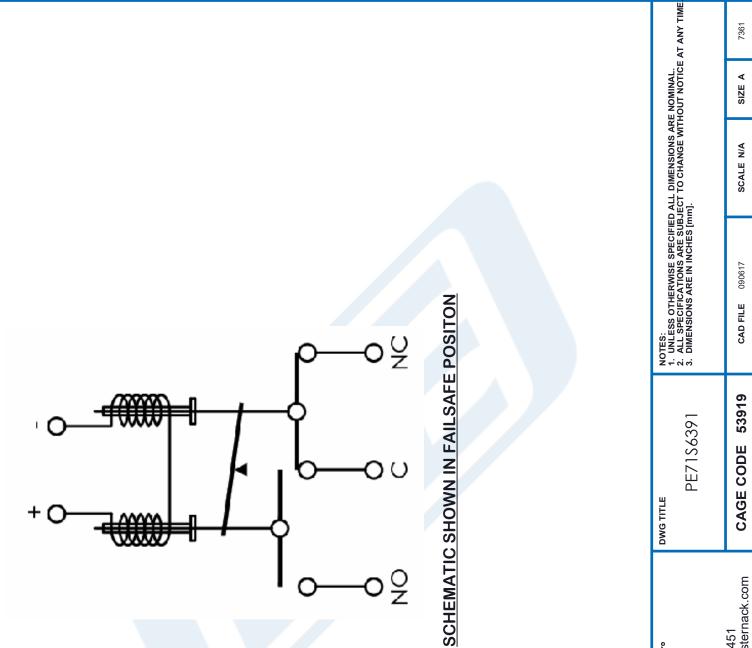
URL: https://www.pasternack.com/spdt-electromechanical-relay-failsafe-switch-18-ghz-60w-28v-sma-pe71s6391-p.aspx

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PE71S6391 CAD Drawing
SPDT Electromechanical Relay Failsafe Switch, DC to 18 GHz, up to 90W, 28V, SMA



E PASTERNACK THE ENGINEER'S RF SOURCE

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

STANDARD TOLERANCES

±0.2 ±0.01 ±0.005

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