

SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 22 GHz, 20W, 12V, SMA



Electromechanical Relay Switches Technical Data Sheet

PE71S6293

Features

- Single Pole Double Throw Terminated Relay Switch
- DC to 22 GHz Frequency Range
- 1M Cycle Min Operating Life
- · Failsafe Actuator

- Insertion Loss 0.6 dB max
- Isolation 55 dB min
- 20 Watts Avg Power Max
- · Switching Sequence Break Before Make

Applications

- Test & Measurement
- · Communications System
- Instrumentation
- · Military Communications

Description

The PE71S6293 is a Single Pole Double Throw (SPDT) Terminated Electromechanical Relay Switch that operates from DC to 22 GHz and has a rating of 20 Watts input power CW in a Break Before Make condition. The output port is terminated in 50 ohms when switched in the isolation (off) state. The design features a Failsafe Actuator with Internal Terminations and is rated for 1M Life Cycles for high reliability operation. Insertion loss is specified from 0.2 dB max and Isolation from 80 dB min at 3 GHz, with +12 Vdc operating voltage. Performance is guaranteed over -35°C to +85°C and the switch assembly is RoHS compliant. The package interface uses solder terminals and SMA Female connectors.

Electrical Specifications

Switch Type **Actuator Type** Switching Sequence SPDT, Terminated Failsafe

Break Before Make

Description	Minimum Typical		Maximum	Units	
Frequency Range	DC		22	GHz	
Impedance		50		Ohms	
Operating Voltage	10.8	12	13.2	Volts	
Actuating Current @ 12 Volts			420	mA	
Insertion Loss			0.6	dB	
Input Power (CW)			20	Watts	
Termination Input Power (CW)			5	Watts	
Switching Time			35	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, Terminated, DC to 22 GHz, 20W, 12V, SMA PE71S6293

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 3	3 to 8	8 to 12.4	12.4 to 18	18 to 22	GHz
1.2:1	1.3:1	1.4:1	1.5:1	1.7:1	
0.2	0.3	0.4	0.5	0.6	dB
80	70	60	60	55	dB
	DC to 3 1.2:1 0.2	DC to 3 3 to 8 1.2:1 1.3:1 0.2 0.3	DC to 3 3 to 8 8 to 12.4 1.2:1 1.3:1 1.4:1 0.2 0.3 0.4	DC to 3 3 to 8 8 to 12.4 12.4 to 18 1.2:1 1.3:1 1.4:1 1.5:1 0.2 0.3 0.4 0.5	DC to 3 3 to 8 8 to 12.4 12.4 to 18 18 to 22 1.2:1 1.3:1 1.4:1 1.5:1 1.7:1 0.2 0.3 0.4 0.5 0.6

Mechanical Specifications

Size

Weight 0.162 lbs [73.48 g] Body Material and Plating Aluminum, Nickel Package Type Connectorized Operating Life 1,000,000 Cycles

Connectors

RF Connector Type **SMA Female** RF Connector Contact Material and Plating Beryllium Copper, Gold RF Connector Body Material and Plating Passivated Stainless Steel Solder Pin

Control Connector

Environmental Specifications

Temperature

Operating Range -35 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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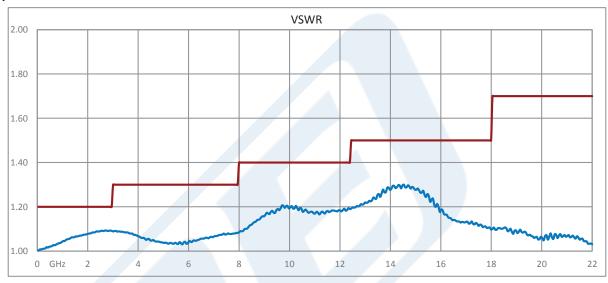
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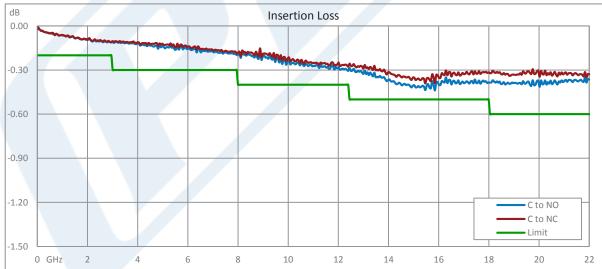


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Typical Performance Data





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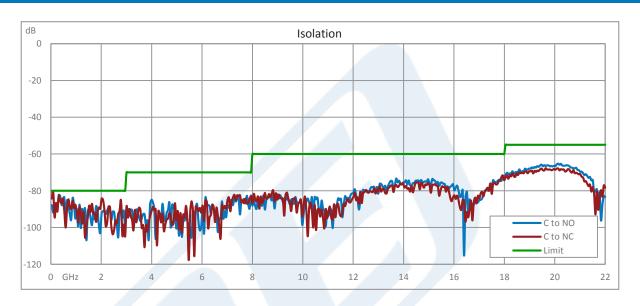


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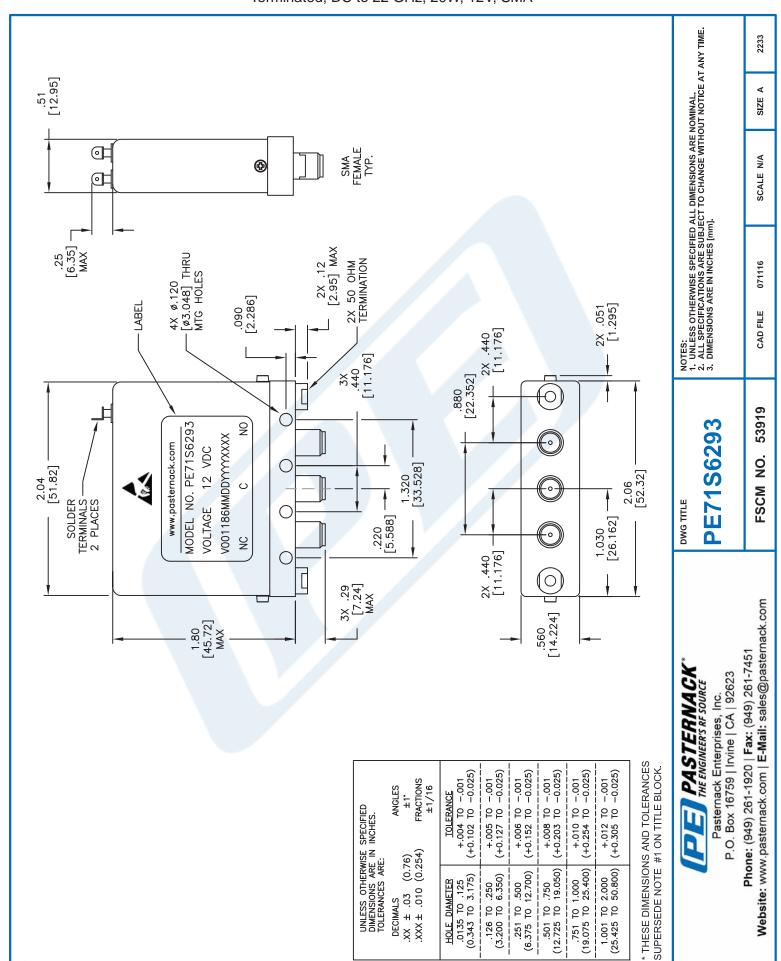
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URL: https://www.pasternack.com/sma-spdt-electromechanical-relay-failsafe-switch-terminated-pe71s6293-p.aspx

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PE71S6293 CAD Drawing

SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 22 GHz, 20W, 12V, SMA



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