



Electromechanical Relay Switches Technical Data Sheet

PE71S6295

Features

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

- Indicators
- 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 PE71S6295 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 TTL Logic control Failsafe Actuator with Indicators and Internal Terminations. It 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 Actuator Options TTL Control SPDT, Terminated Failsafe Break Before Make TTL Logic, Indicators on: 3.5 to 5.5 Volts off: 0 to 0.8 Volts

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			20	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 TTL, Indicators, SMA PE71S6295

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 0.1874 lbs [85 g]
Body Material and Plating Aluminum, Nickel
Package Type Connectorized

Operating Life 1,000,000 Cycles

Connectors

RF Connector Type
RF Connector Contact Material and Plating
RF Connector Body Material and Plating
Control Connector
Solder Pin

SMA Female
Beryllium Copper, Gold
Passivated Stainless Steel
Solder Pin

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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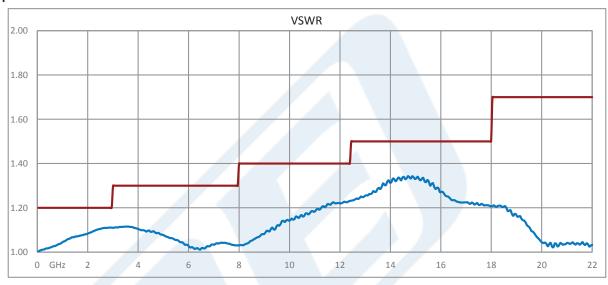


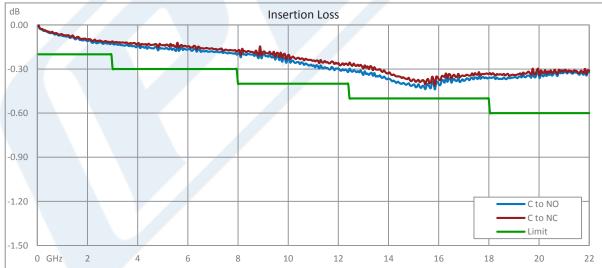


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Typical Performance Data





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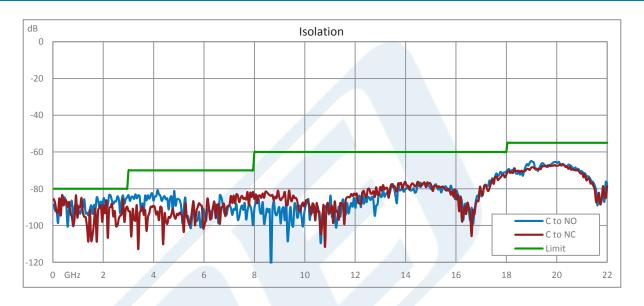
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SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 22 GHz, 20W, 12V TTL, Indicators, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

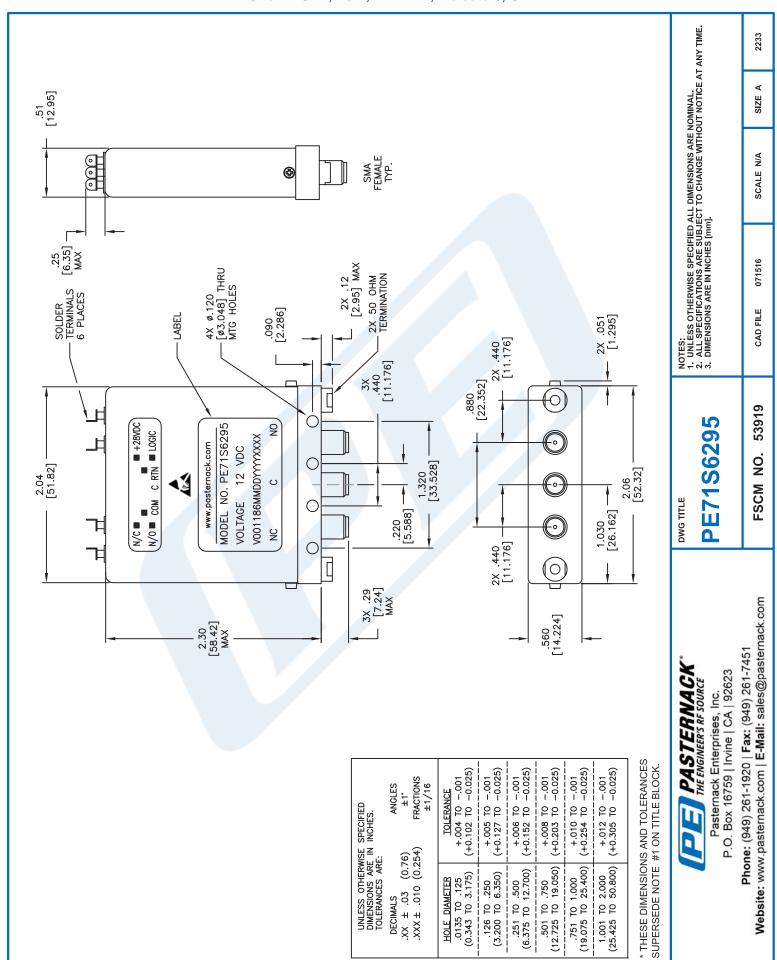
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URL: https://www.pasternack.com/sma-spdt-electromechanical-relay-failsafe-switch-ttl-indicators-terminated-pe71s6295-p. aspx

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PE71S6295 CAD Drawing

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



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