



### Electromechanical Relay Switches Technical Data Sheet

PE71S6299

#### **Features**

- Single Pole Double Throw Terminated Relay Switch
- DC to 22 GHz Frequency Range
- 1M Cycle Min Operating Life
- Self Cut Off
- · Latching Actuator
- TTL Logic

- Diodes
- 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 PE71S6299 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 Self Cut Off TTL Logic control Latching Actuator with Diodes, 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 Latching Break Before Make

Self Cut Off, Diodes, 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	13.2 420	Volts mA
Actuating Current @ 12 Volts				
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 Latching Switch, Terminated, DC to 22 GHz, 20W, 12V Self Cut Off, Diodes, TTL, Indicators, SMA PE71S6299

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

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 8	8 to 12.4	12.4 to 18	18 to 22	GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1	1.7:1	
Insertion Loss, Max	0.2	0.3	0.4	0.5	0.6	dB
Isolation, Min	80	70	60	60	55	dB

#### **Mechanical Specifications**

Size

Weight
Body Material and Plating
Package Type

Operating Life

Connectors

RF Connector Type

RF Connector Contact Material and Plating RF Connector Body Material and Plating

**Control Connector** 

SMA Female

0.192 lbs [87.09 g]

Aluminum, Nickel

1,000,000 Cycles

Connectorized

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:

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 Latching Switch, Terminated, DC to 22 GHz, 20W, 12V Self Cut Off, Diodes, TTL, Indicators, SMA PE71S6299

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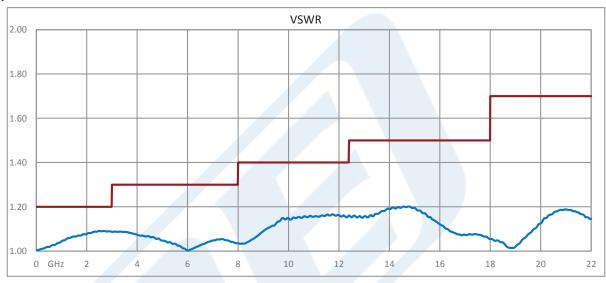




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#### **Typical Performance Data**





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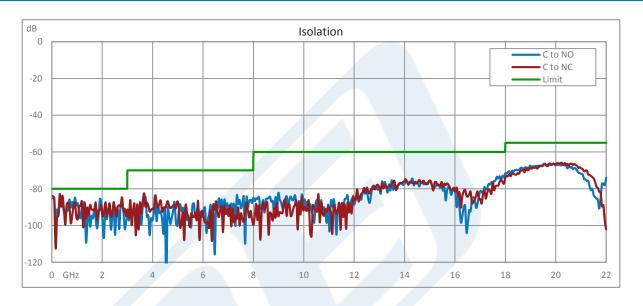
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SPDT Electromechanical Relay Latching Switch, Terminated, DC to 22 GHz, 20W, 12V Self Cut Off, Diodes, TTL, Indicators, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave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

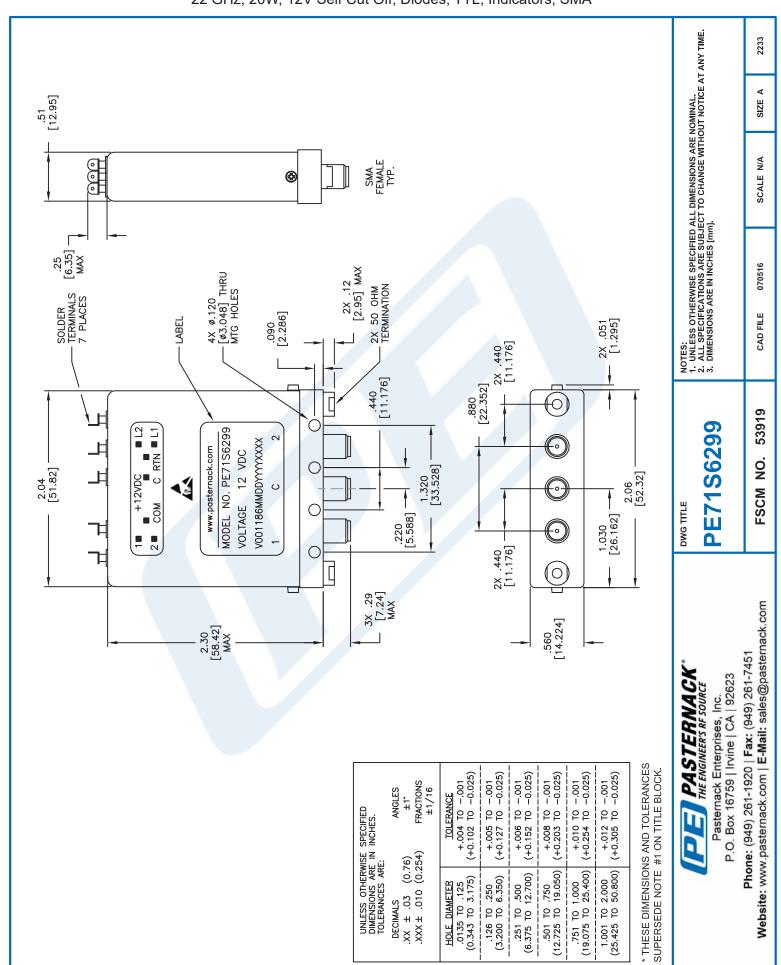
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URL: https://www.pasternack.com/sma-spdt-electromechanical-relay-latching-switch-self-cut-off-diodes-ttl-indicators-terminated-pe71s6299-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

## PE71S6299 CAD Drawing

SPDT Electromechanical Relay Latching Switch, Terminated, DC to 22 GHz, 20W, 12V Self Cut Off, Diodes, TTL, Indicators, SMA



## PE71S6299 CAD Drawing

SPDT Electromechanical Relay Latching Switch, Terminated, DC to 22 GHz, 20W, 12V Self Cut Off, Diodes, TTL, Indicators, SMA

