



Electromechanical Relay Switches Technical Data Sheet

PE71S6199

Features

- Single Pole Double Throw Relay Switch
- DC to 10 GHz Frequency Range
- 1M Cycle Min Operating Life
- · Failsafe Actuator

- · Insertion Loss 0.6 dB max
- Isolation 60 dB min
- 50 Watts Avg Power Max
- Switching Sequence Break Before Make

Applications

- · Test & Measurement
- · Communications System
- Instrumentation

Description

The PE71S6199 is a Single Pole Double Throw Electromechanical Relay Switch that operates from DC to 10 GHz and has a rating of 50 Watts input power (CW) in a Break Before Make condition. The design features a Failsafe Actuator 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, with +28 Vdc operating voltage and performance is guaranteed over -25°C to +65°C. The package interface uses solder terminals and TNC Female connectors.

Electrical Specifications

Switch Type Actuator Type Switching Sequence SPDT, Reflective Failsafe

Break Before Make

Description	Minimum	Typical	Maximum	Units	
Frequency Range	DC		10	GHz	
Impedance		50		Ohms	
Operating Voltage		28		Volts	
Actuating Current @ 28 Volts		125		mA	
VSWR			1.6:1		
Insertion Loss			0.6	dB	
Isolation	60			dB	
Input Power (CW)			50	Watts	
(at 10 GHz)					

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 10 GHz, TNC, 50 Watts, 28V Control PE71S6199

ISO 9001 : 2008 Registered





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Performance by Frequency

F1	F2	F3	F4	F5	Units
DC to 4	4 to 10				GHz
1.2:1	1.6:1				
0.2	0.6				dB
80	60				dB
	DC to 4 1.2:1 0.2	DC to 4 4 to 10 1.2:1 1.6:1 0.2 0.6	DC to 4 4 to 10 1.2:1 1.6:1 0.2 0.6	DC to 4 4 to 10 1.2:1 1.6:1 0.2 0.6	DC to 4 4 to 10 1.2:1 1.6:1 0.2 0.6

Mechanical Specifications

Size

Length

Width/Diameter

Height

Weight

Body Material and Plating

Package Type

Operating Life

Switching Time

Connectors

RF Connector Type

RF Connector Contact Material and Plating

RF Connector Body Material and Plating

Control Connector

Environmental Specifications

Temperature

Operating Range

ESD Sensitivity

1.71 in [43.43 mm] 1.76 in [44.7 mm] 0.72 in [18.29 mm]

0.344 lbs [156.04 g]

Aluminum

Connectorized Module

1,000,000 Cycles

50 ms Max

TNC Female

Beryllium Copper, Gold

Passivated Stainless Steel

Solder Pin

-25 to +65 deg C

ESD Sensitive Material. Transport material in Approved ESD bags. Handle in approved ESD Workstation.



Environmental Specification Notes: Designed to meet MIL-DTL-3928

Compliance Certifications (visit www.Pasternack.com for current document) Not RoHS Compliant

Plotted and Other Data

Notes:

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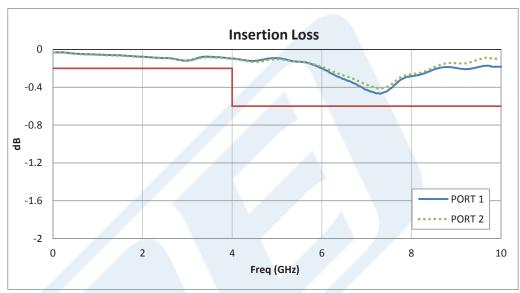


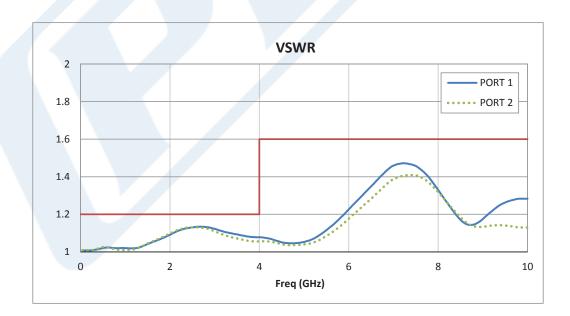


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Typical Performance Data





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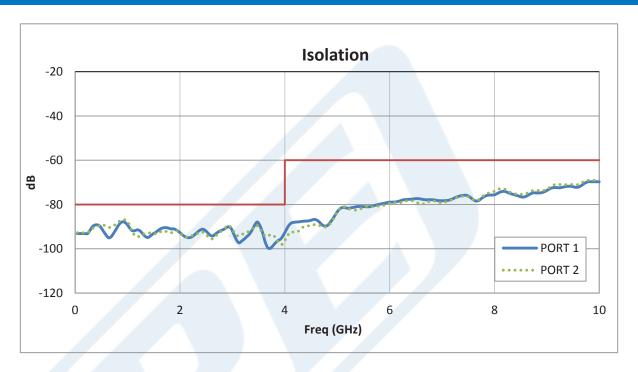
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SPDT Electromechanical Relay Failsafe Switch DC to 10 GHz, TNC, 50 Watts, 28V Control from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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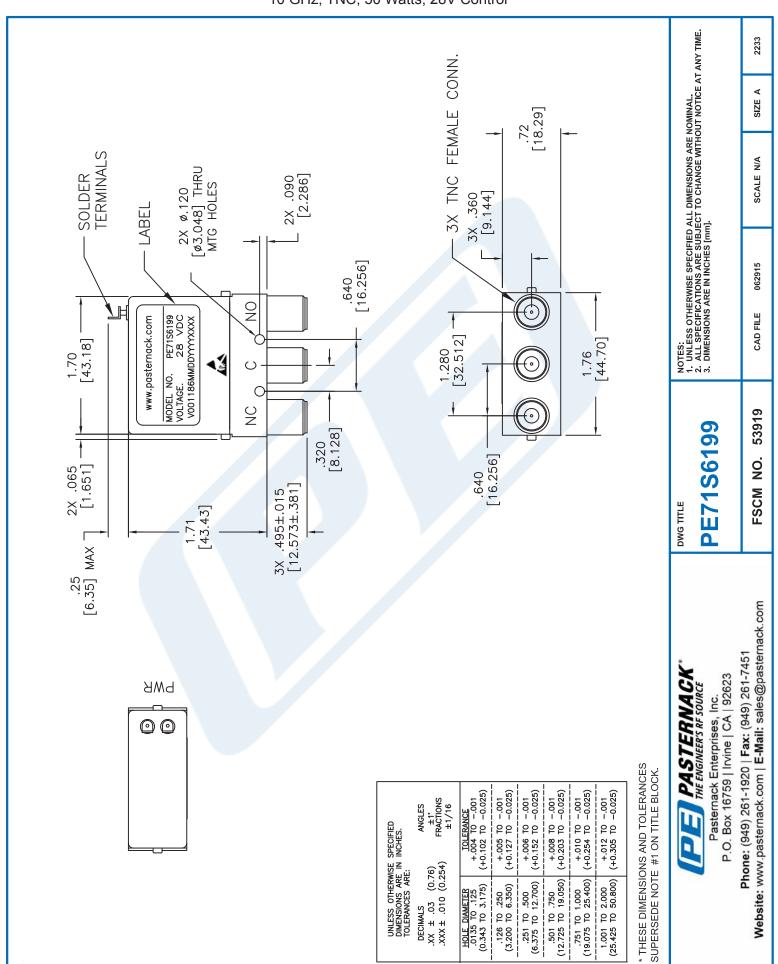
URL: http://www.pasternack.com/tnc-sp6t-electromechanical-relay-switch-10-ghz-failsafe-pe71s6199-p.aspx

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PE71S6199 CAD Drawing

SPDT Electromechanical Relay Failsafe Switch DC to 10 GHz, TNC, 50 Watts, 28V Control



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SPDT Electromechanical Relay Failsafe Switch DC to 10 GHz, TNC, 50 Watts, 28V Control

