

SPDT Electromechanical Relay Latching Switch DC to 26.5 GHz, SMA, 20 Watts, 12V Control, Indicators, TTL, Self Cut Off, Diodes



Electromechanical Relay Switches Technical Data Sheet

PE71S6100

Features

- · Single Pole Double Throw Relay Switch
- DC to 26.5 GHz Frequency Range
- · 1M Cycle Min Operating Life
- · Latching Actuator
- Self Cut Off, TTL Logic Driver, Position Indicators, Suppression Diodes
- · Insertion Loss 0.5 dB max
- Isolation 50 dB min
- 20 Watts Avg Power Max
- · Switching Sequence Break Before Make

Applications

- Test & Measurement
- · Communications System
- Instrumentation

Description

The PE71S6100 is a Single Pole Double Throw Electromechanical Relay Switch that operates from DC to 26.5 GHz and has a rating of 20 Watts input power (CW) in a Break Before Make condition. The design features a Latching Actuator with Self Cut Off circuitry, TTL Logic Driver, Position Indicators, Suppression Diodes 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 +12 Vdc operating voltage. Performance is guaranteed over -25°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, Reflective Latching Break Before Make Indicators, TTL Logic, Self Cut Off, Diodes on: 2.4 to 5 Volts off: 0 to 0.8 Volts

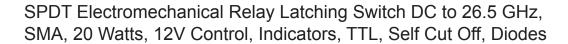
Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Volts		200		mA
VSWR			1.5:1	
Insertion Loss			0.5	dB
Isolation	50			dB
Input Power (CW)			20	Watts
(at 26.5 GHz)				

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 Latching Switch DC to 26.5 GHz, SMA, 20 Watts, 12V Control, Indicators, TTL, Self Cut Off, Diodes PE71S6100

ISO 9001 : 2008 Registered

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 4	4 to 8	8 to 12	12 to 18	18 to 26.5	GHz
VSWR, Max	1.25:1	1.25:1	1.3:1	1.35:1	1.5:1	
Insertion Loss, Max	0.2	0.25	0.3	0.4	0.5	dB
Isolation, Min	80	75	70	60	50	dB

Mechanical Specifications

Size

Lenath

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

Operating Range

-25 to +85 deg C

1.83 in [46.48 mm]

1.27 in [32.26 mm]

Connectorized Module 1,000,000 Cycles

Beryllium Copper, Gold

Passivated Stainless Steel

0.5 in [12.7 mm] 0.148 lbs [67.13 q]

Aluminum

20 ms Max

SMA Female

Solder Pin

ESD Sensitive Material. Transport material in Approved

ESD bags. Handle in approved ESD Workstation.

Temperature

ESD Sensitivity

Environmental Specification Notes:

Designed to Meet MIL-DTL-3928

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant

Plotted and Other Data

Notes:

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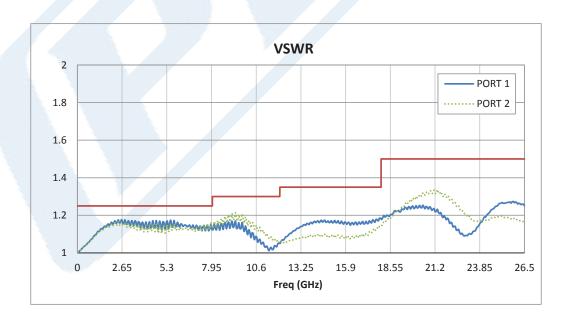


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Typical Performance Data





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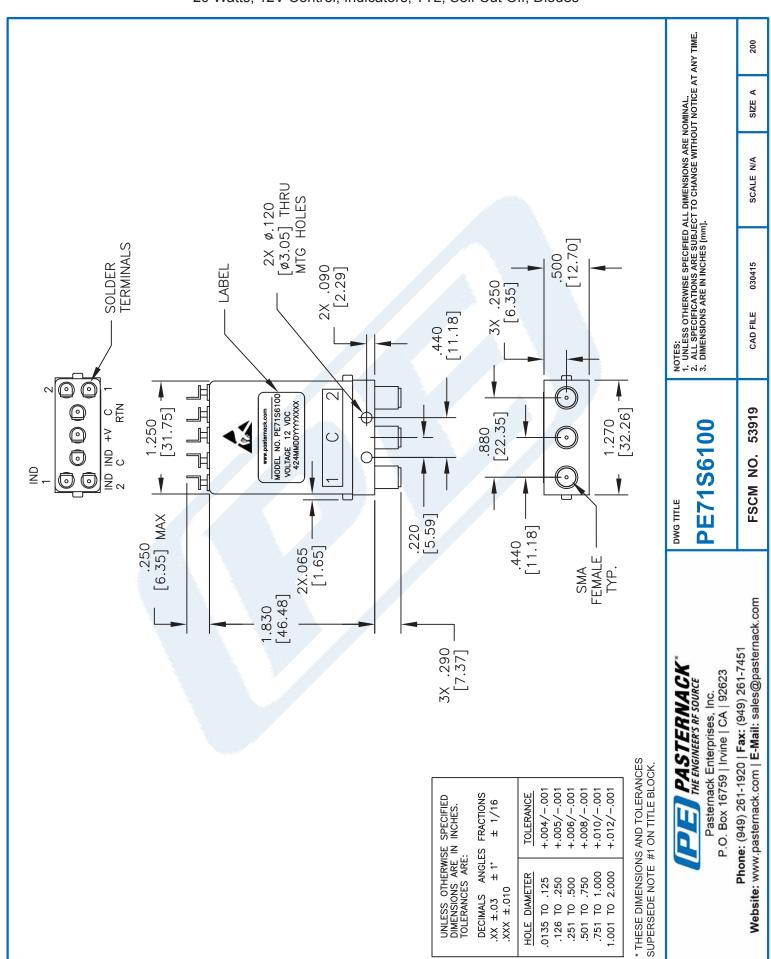
URL: http://www.pasternack.com/sma-spdt-electromechanical-relay-switch-26.5-ghz-indicators-latching-pe71s6100-p.aspx

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PE71S6100 CAD Drawing

SPDT Electromechanical Relay Latching Switch DC to 26.5 GHz, SMA, 20 Watts, 12V Control, Indicators, TTL, Self Cut Off, Diodes



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