



# **Electromechanical Relay Switches Technical Data Sheet**

PE71S6098

### **Features**

- · Single Pole Double Throw Relay Switch
- DC to 26.5 GHz Frequency Range
- 1M Cycle Min Operating Life
- · Latching Actuator
- Self Cut Off, 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 PE71S6098 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, 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
Polarity

SPDT, Reflective Latching Break Before Make Self Cut Off, Diodes Positive Common

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, Self Cut Off, Diodes PE71S6098

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





## **Electromechanical Relay Switches Technical Data**

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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

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

1.83 in [46.48 mm] 1.27 in [32.26 mm] 0.5 in [12.7 mm]

0.139 lbs [63.05 g]

Aluminum

Connectorized Module

1,000,000 Cycles

20 ms Max

**SMA Female** 

Beryllium Copper, Gold

Passivated Stainless Steel

Solder Pin

-25 to +85 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) RoHS Compliant

## **Plotted and Other Data**

Notes:

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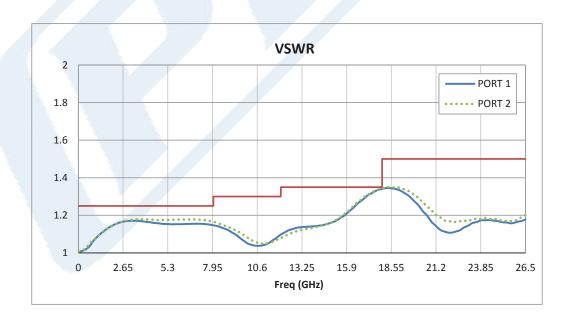


## **Electromechanical Relay Switches Technical Data**

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#### **Typical Performance Data**





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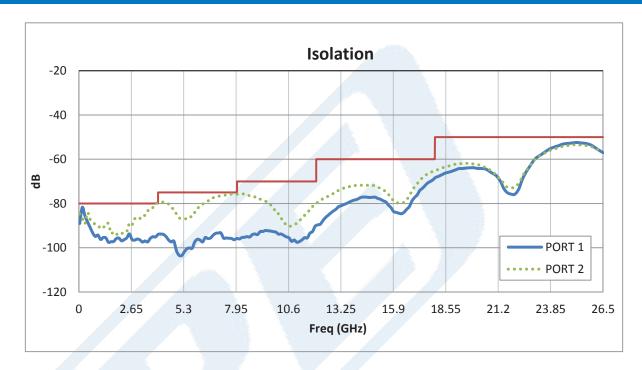
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SPDT Electromechanical Relay Latching Switch DC to 26.5 GHz, SMA, 20 Watts, 12V Control, Self Cut Off, Diodes from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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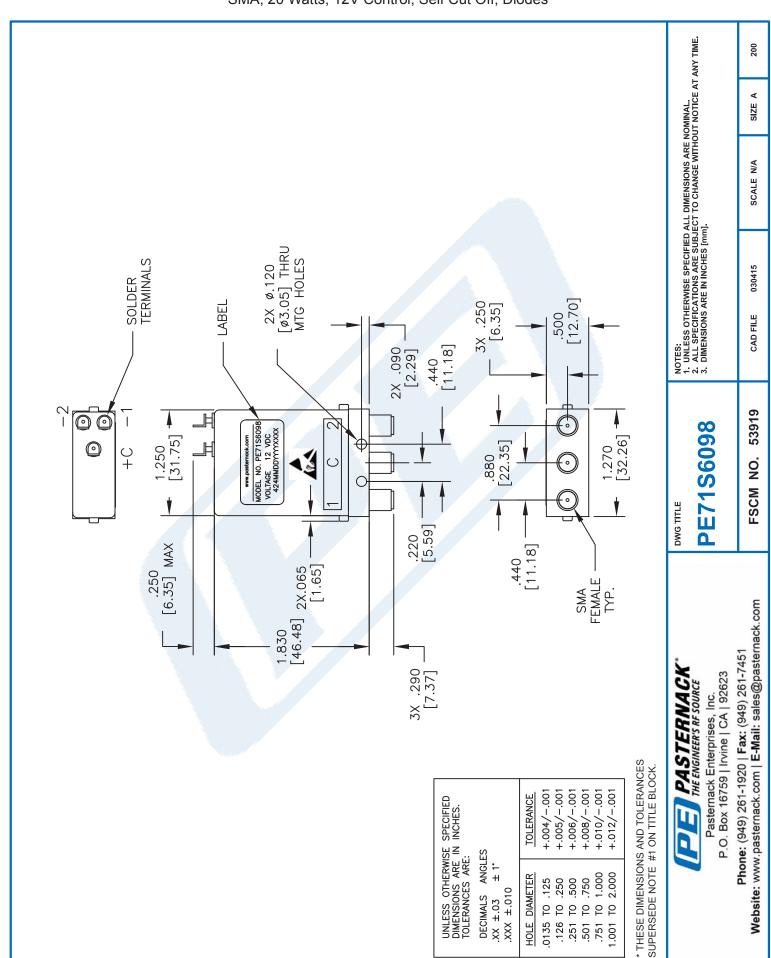
URL: http://www.pasternack.com/sma-spdt-electromechanical-relay-switch-26.5-ghz-latching-pe71s6098-p.aspx

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# PE71S6098 CAD Drawing

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



# PE71S6098 CAD Drawing

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

