





Electromechanical Relay Switches Technical Data Sheet

PE71S6106

Features

- · Single Pole Double Throw Relay Switch
- DC to 40 GHz Frequency Range
- 1M Cycle Min Operating Life
- · Latching Actuator
- Self Cut Off, Suppression Diodes

- · Insertion Loss 0.9 dB max
- Isolation 50 dB min
- 5 Watts Avg Power Max
- · Switching Sequence Break Before Make

Applications

- Test & Measurement
- Communications System
- Instrumentation
- · Suitable for Aircraft

Description

The PE71S6106 is a Single Pole Double Throw Electromechanical Relay Switch that operates from DC to 40 GHz and has a rating of 5 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 70 dB min, with +12 Vdc operating voltage and performance is guaranteed over -35°C to +85°C. The package interface uses solder terminals and 2.92mm 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		40	GHz
Impedance		50		Ohms
Operating Voltage	10.8	12	13.2	Volts
Actuating Current @ 12 Volts			160	mA
VSWR			2:1	
Insertion Loss			0.9	dB
Isolation	50			dB
Input Power (CW)			5	Watts

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 40 GHz, 2.92mm, 5 Watts, 12V Control, Self Cut Off, Diodes PE71S6106

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







Electromechanical Relay Switches Technical Data

PE71S6106

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12	12 to 18.5	18.5 to 26.5	26.5 to 40	GHz
VSWR, Max	1.3:1	1.4:1	1.5:1	1.7:1	2:1	
Insertion Loss, Max	0.2	0.4	0.5	0.7	0.9	dB
Isolation, Min	70	60	60	55	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

1.62 in [41.15 mm] 1.5 in [38.1 mm] 0.5 in [12.7 mm]

0.125 lbs [56.7 g]

Aluminum

Connectorized Module

1,000,000 Cycles

15 ms Max

2.92mm Female

Beryllium Copper, Gold

Passivated Stainless Steel

Solder Pin

-35 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-E-5400 and MIL-S-3928

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

Not RoHS Compliant

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 DC to 40 GHz, 2.92mm, 5 Watts, 12V Control, Self Cut Off, Diodes PE71S6106

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



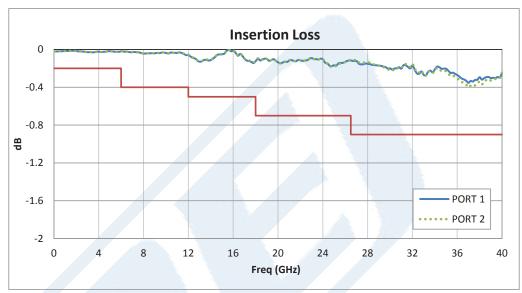




Electromechanical Relay Switches Technical Data

PE71S6106

Typical Performance Data





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 40 GHz, 2.92mm, 5 Watts, 12V Control, Self Cut Off, Diodes PE71S6106

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

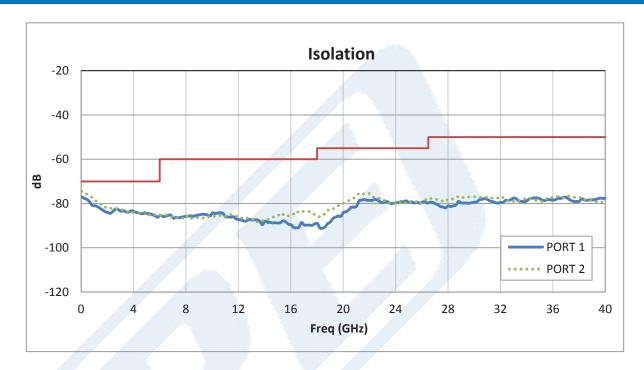






Electromechanical Relay Switches Technical Data

PE71S6106



SPDT Electromechanical Relay Latching Switch DC to 40 GHz, 2.92mm, 5 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.

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 40 GHz, 2.92mm, 5 Watts, 12V Control, Self Cut Off, Diodes PE71S6106

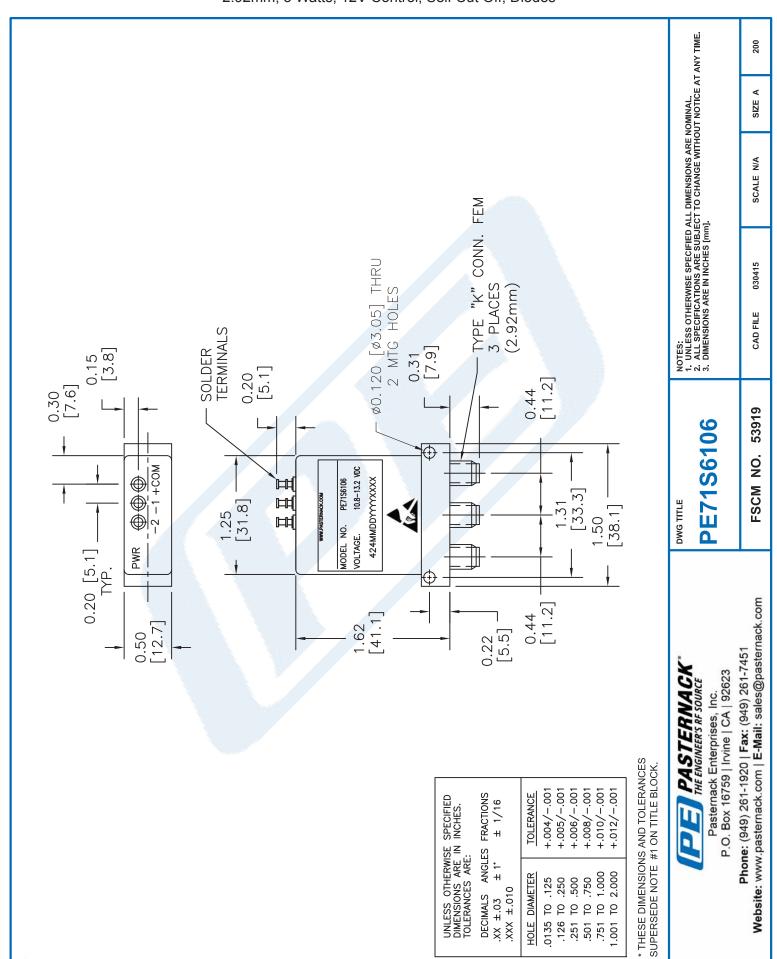
URL: http://www.pasternack.com/2.92mm-spdt-electromechanical-relay-switch-40-ghz-latching-pe71s6106-p.aspx

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.

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

PE71S6106 CAD Drawing

SPDT Electromechanical Relay Latching Switch DC to 40 GHz, 2.92mm, 5 Watts, 12V Control, Self Cut Off, Diodes



PE71S6106 CAD Drawing

SPDT Electromechanical Relay Latching Switch DC to 40 GHz, 2.92mm, 5 Watts, 12V Control, Self Cut Off, Diodes

