



### Electromechanical Relay Switches Technical Data Sheet

PE71S6179

#### **Features**

- Transfer Relay Switch
- DC to 12.4 GHz Frequency Range
- 1M Cycle Min Operating Life
- · Latching Actuator
- Self Cut Off, Suppression Diodes

- Insertion Loss 0.4 dB max
- Isolation 60 dB min
- 160 Watts Avg Power Max
- · Switching Sequence Break Before Make

#### **Applications**

- Test & Measurement
- Communications System
- Instrumentation

#### **Description**

The PE71S6179 is a Transfer Electromechanical Relay Switch that operates from DC to 12.4 GHz and has a rating of 160 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 +28 Vdc operating voltage and performance is guaranteed over -25°C to +65°C. The package interface uses solder terminals and N Female connectors.

#### **Electrical Specifications**

Switch Type
Actuator Type
Switching Sequence
Actuator Options

Transfer, Reflective Latching Break Before Make Self Cut Off, Diodes

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
Impedance		50		Ohms
Operating Voltage		28		Volts
Actuating Current @ 28 Volts		135		mA
VSWR			1.45:1	
Insertion Loss			0.4	dB
Isolation	60			dB
Input Power (CW)			160	Watts
(at 12.4 GHz)				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Transfer Electromechanical Relay Latching Switch DC to 12.4 GHz, N, 160 Watts, 28V Control, Self Cut Off, Diodes PE71S6179

ISO 9001 : 2008 Registered





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#### Performance by Frequency

F1	F2	F3	F4	F5	Units
DC to 4	4 to 8	8 to 12.4			GHz
1.2:1	1.3:1	1.45:1			
0.2	0.3	0.4			dB
80	70	60			dB
	DC to 4 1.2:1 0.2	DC to 4 4 to 8 1.2:1 1.3:1 0.2 0.3	DC to 4     4 to 8     8 to 12.4       1.2:1     1.3:1     1.45:1       0.2     0.3     0.4	DC to 4 4 to 8 8 to 12.4  1.2:1 1.3:1 1.45:1  0.2 0.3 0.4	DC to 4 4 to 8 8 to 12.4  1.2:1 1.3:1 1.45:1  0.2 0.3 0.4

#### **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

2.06 in [52.32 mm] 2 in [50.8 mm] 2 in [50.8 mm]

0.875 lbs [396.89 g]

Aluminum

Connectorized Module

1,000,000 Cycles

20 ms Max

N 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:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Transfer Electromechanical Relay Latching Switch DC to 12.4 GHz, N, 160 Watts, 28V Control, Self Cut Off, Diodes PE71S6179

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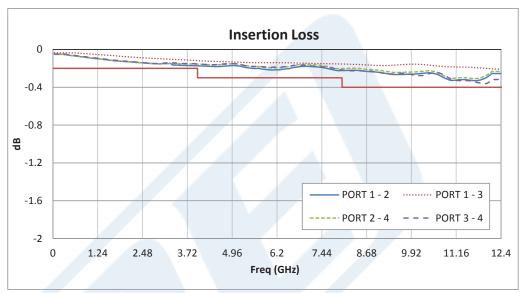


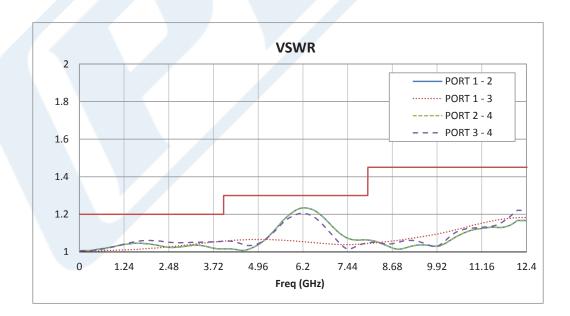


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#### **Typical Performance Data**





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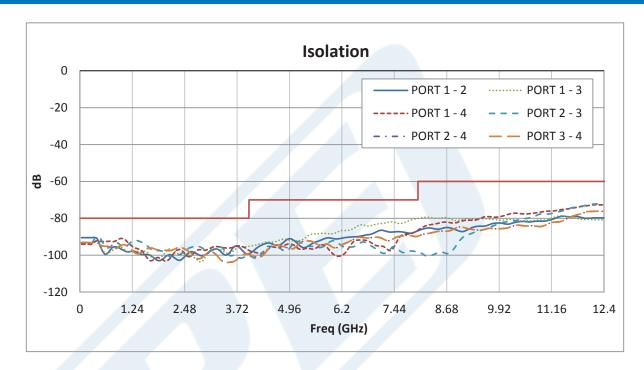






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Transfer Electromechanical Relay Latching Switch DC to 12.4 GHz, N, 160 Watts, 28V Control, Self Cut Off, Diodes from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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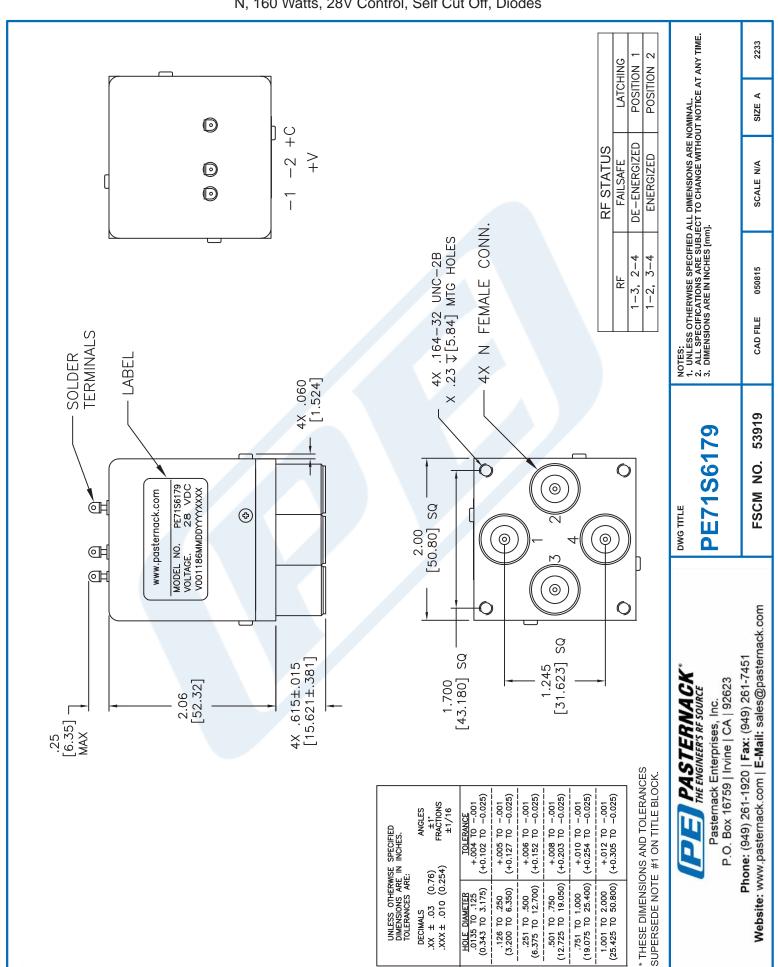
URL: http://www.pasternack.com/n-transfer-electromechanical-relay-switch-12.4-ghz-latching-pe71s6179-p.aspx

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## PE71S6179 CAD Drawing

Transfer Electromechanical Relay Latching Switch DC to 12.4 GHz, N, 160 Watts, 28V Control, Self Cut Off, Diodes



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