



Electromechanical Relay Switches Technical Data Sheet

PE71S6059

Features

- Single Pole Double Throw Relay Switch
- DC to 12.4 GHz Frequency Range
- 1M Cycle Min Operating Life
- 200 Watt Avg Power Max

- -40 to +85 Deg C Operating Temperature
- Insertion Loss 0.5 dB Max
- VSWR 1.5:1 Max

Applications

- High Performance Relay Switch
- · Military Communications
- · Communications Systems
- Test & Measurement

Description

The PE71S6059 is a Single Pole Double Throw Electromechanical Relay Switch that operates from DC to 12.4 GHz and can handle up to 700 Watts of CW input power 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 0.15 dB max and Isolation from 85 dB min, with +12 Vdc operating voltage. Performance is guaranteed over -40°C to +85°C and the switch assembly is RoHS and REACH compliant. The package interface uses solder terminals and N Female connectors.

Electrical Specifications

Switch Type Actuator Type Switching Sequence SPDT, Reflective Failsafe

Break before Make

Description	Minimum	Typical	Maximum	Units	
Frequency Range	DC		12.4	GHz	
Impedance		50		Ohms	
Operating Voltage	10.2	12	13	Volts	
Actuating Current @ 12 Volts		310		mA	
VSWR			1.5:1		
Insertion Loss			0.5	dB	
Isolation	60			dB	
Input Power (CW)			200	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 Failsafe Switch DC to 12.4 GHz, N, 200 Watts, 12V Control PE71S6059

ISO 9001 : 2008 Registered





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Performance by Frequency

F1	F2	F3	F4	F5	Units
DC to 1	1 to 2	2 to 3	3 to 8	8 to 12.4	GHz
1.15:1	1.2:1	1.25:1	1.35:1	1.5:1	
0.15	0.2	0.25	0.35	0.5	dB
85	80	75	70	60	dB
700	500	400	250	200	Watts
	DC to 1 1.15:1 0.15 85	DC to 1 1 to 2 1.15:1 1.2:1 0.15 0.2 85 80	DC to 1 1 to 2 2 to 3 1.15:1 1.2:1 1.25:1 0.15 0.2 0.25 85 80 75	DC to 1 1 to 2 2 to 3 3 to 8 1.15:1 1.2:1 1.25:1 1.35:1 0.15 0.2 0.25 0.35 85 80 75 70	DC to 1 1 to 2 2 to 3 3 to 8 8 to 12.4 1.15:1 1.2:1 1.25:1 1.35:1 1.5:1 0.15 0.2 0.25 0.35 0.5 85 80 75 70 60

1,000,000 Cycles

15 ms Max

Electrical Specification Notes:

Average Power and Actuating Current values at 25°C.

Mechanical Specifications

Size

 Length
 2.64 in [67.06 mm]

 Width/Diameter
 1.89 in [48.01 mm]

 Height
 0.9 in [22.86 mm]

 Weight
 0.41 lbs [185.97 g]

 Package Type
 Connectorized Module

Operating Life
Switching Time

Connectors

RF Connector Type N Female
RF Connector Specification MIL C 39012
Control Connector Solder Pins

Mechanical Specification Notes: Solder Pins: 250°C max/30sec.

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C Storage Range -55 to +85 deg C

Construction Splashproof

Shock MIL-STD-202, Method 213B, Cond.C





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Vibration ESD Sensitivity MIL-STD-202, Method 204D, Cond.D ESD Sensitive Material. Transport material in approved ESD bags. Handle in approved ESD Workstation.



Environmental Specification Notes: Environmental specifications are guaranteed but not tested.

Compliance Certifications (visit www.Pasternack.com for current document)
RoHS Compliant
REACH Compliant 12/17/2014

Plotted and Other Data

Notes:

Values shown are typical at 25°C.





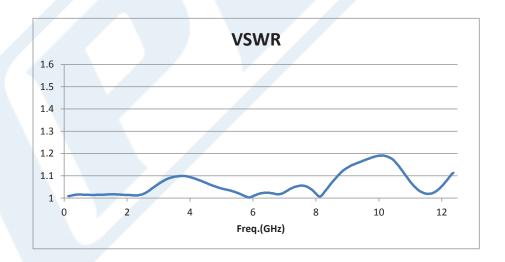


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Typical Performance Data





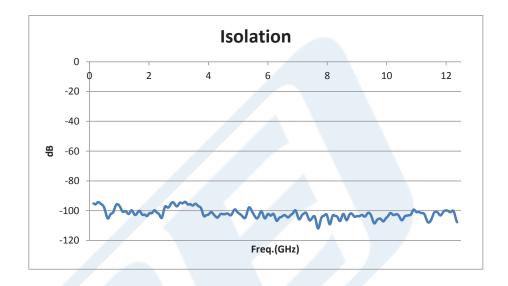






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SPDT Electromechanical Relay Failsafe Switch DC to 12.4 GHz, N, 200 Watts, 12V Control from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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 12.4 GHz, N, 200 Watts, 12V Control PE71S6059

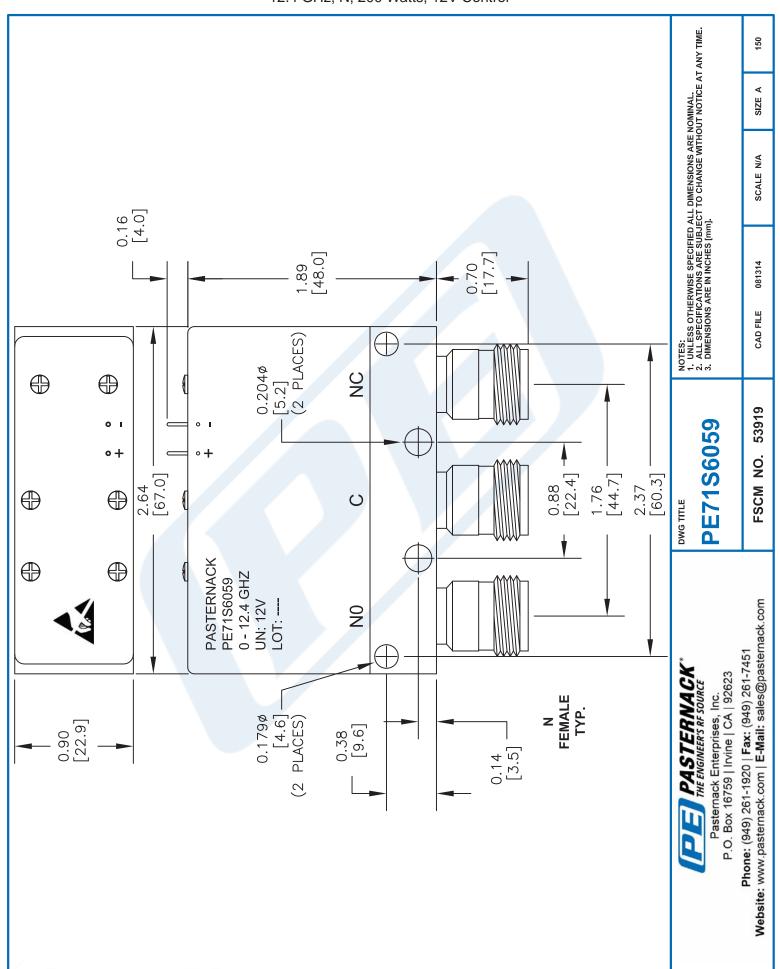
URL: http://www.pasternack.com/n-spdt-electromechanical-relay-switch-12.4-ghz-indicators-pe71s6059-p.aspx

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PE71S6059 CAD Drawing

SPDT Electromechanical Relay Failsafe Switch DC to 12.4 GHz, N, 200 Watts, 12V Control



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SPDT Electromechanical Relay Failsafe Switch DC to 12.4 GHz, N, 200 Watts, 12V Control

