



SP6T Electromechanical Relay Latching Switch, DC to 12.4 GHz, up to 400W, 28V Indicators, Reset, N

## Electromechanical Relay Switches Technical Data Sheet

PE71S6073

### Features

- Single Pole Six Throw Relay Switch
- DC to 12.4 GHz Frequency Range
- 2M 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 PE71S6073 is a Single Pole Six Throw Electromechanical Relay Switch that operates from DC to 12.4 GHz and can handle up to 400 Watts of CW input power in a Break Before Make condition. The design features a Latching Actuator with Position Indicators and Reset circuitry and is rated for 2M 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. 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	SP6T
Actuator Type	Latching
Switching Sequence	Break before Make
Actuator Options	Indicators, Reset
Polarity	Negative Common
Indicator Rating	1 Watts / 30 Volts / 100 mA
Reset Current	750 mA

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
Impedance		50		Ohms
Operating Voltage	24	28	30	Volts
Actuating Current @ 28 Volts		125		mA
VSWR			1.5:1	
Insertion Loss			0.5	dB
Isolation	60			dB
Input Power (CW)			200	Watts
Switching Time			15	ms Max

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SP6T Electromechanical Relay Latching Switch, DC to 12.4 GHz, up to 400W, 28V Indicators, Reset, N PE71S6073](#)



SP6T Electromechanical Relay Latching Switch, DC to 12.4 GHz, up to 400W, 28V Indicators, Reset, N

## Electromechanical Relay Switches Technical Data

PE71S6073

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 8	8 to 12.4			GHz
VSWR, Max	1.2:1	1.35:1	1.5:1			
Insertion Loss, Max	0.2	0.35	0.5			dB
Isolation, Min	80	70	60			dB
Input Power, Max (CW)	400	250	200			Watts

Electrical Specification Notes:  
Average Power and Actuating Current values at 25°C.  
Reset: supply voltage time 1 sec max./10% duty cycle.

### Mechanical Specifications

#### Size

Length	2.05 in [52.07 mm]
Width/Diameter	2.5 in [63.5 mm]
Height	2.5 in [63.5 mm]
Weight	1.01 lbs [458.13 g]
Package Type	Connectorized
Operating Life	2,000,000 Cycles

#### Connectors

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

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
Humidity	MIL-DTE-3928E, Cond.B
Shock	MIL-STD-202, Method 213B, Cond.C
Vibration	MIL-STD-202, Method 204D, Cond.D

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SP6T Electromechanical Relay Latching Switch, DC to 12.4 GHz, up to 400W, 28V Indicators, Reset, N PE71S6073](#)



SP6T Electromechanical Relay Latching Switch, DC to  
12.4 GHz, up to 400W, 28V Indicators, Reset, N

## Electromechanical Relay Switches Technical Data

PE71S6073

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

- Values shown are typical at 25°C.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SP6T Electromechanical Relay Latching Switch, DC to 12.4 GHz, up to 400W, 28V Indicators, Reset, N PE71S6073](#)

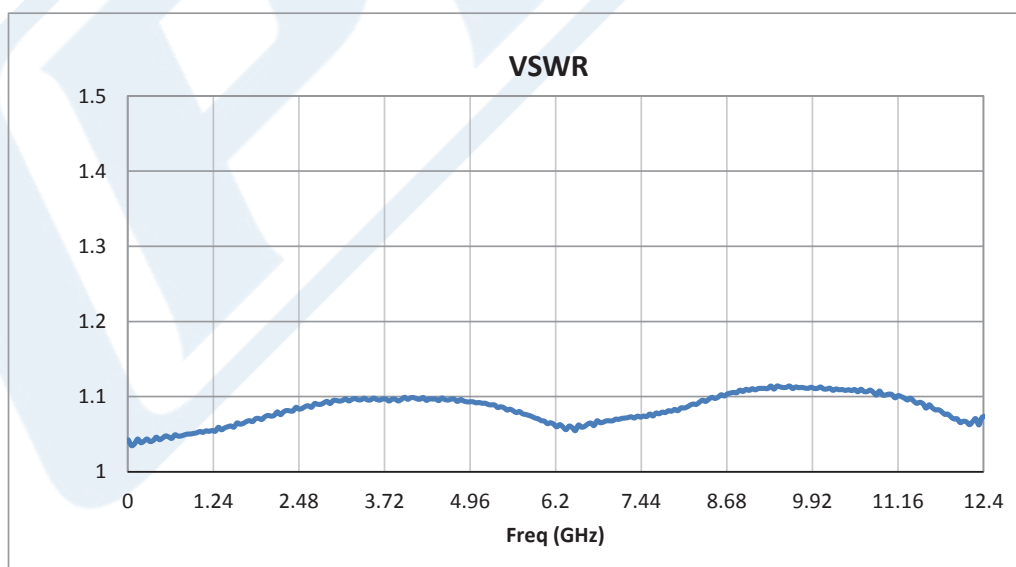
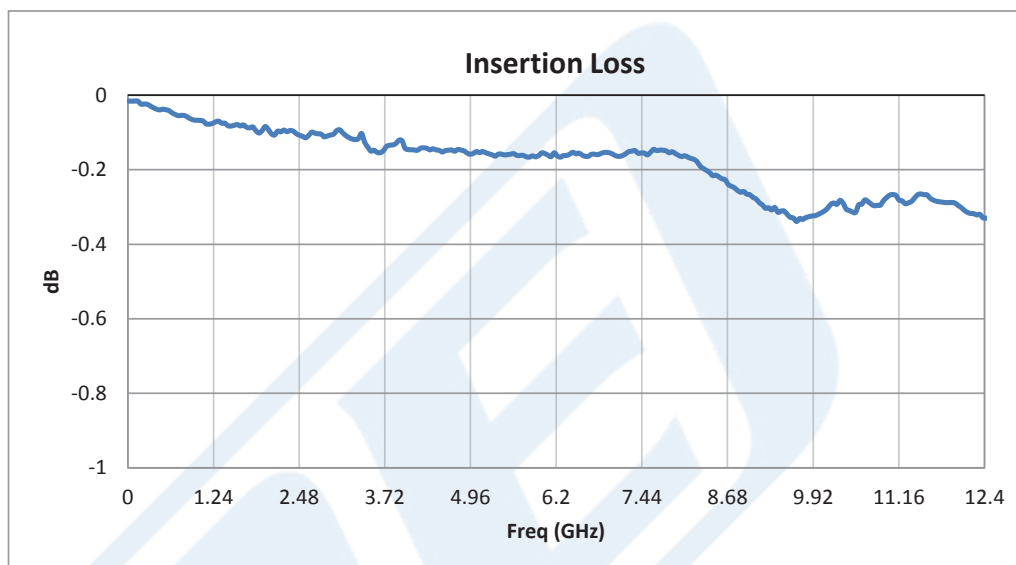


SP6T Electromechanical Relay Latching Switch, DC to  
12.4 GHz, up to 400W, 28V Indicators, Reset, N

## Electromechanical Relay Switches Technical Data

PE71S6073

### Typical Performance Data



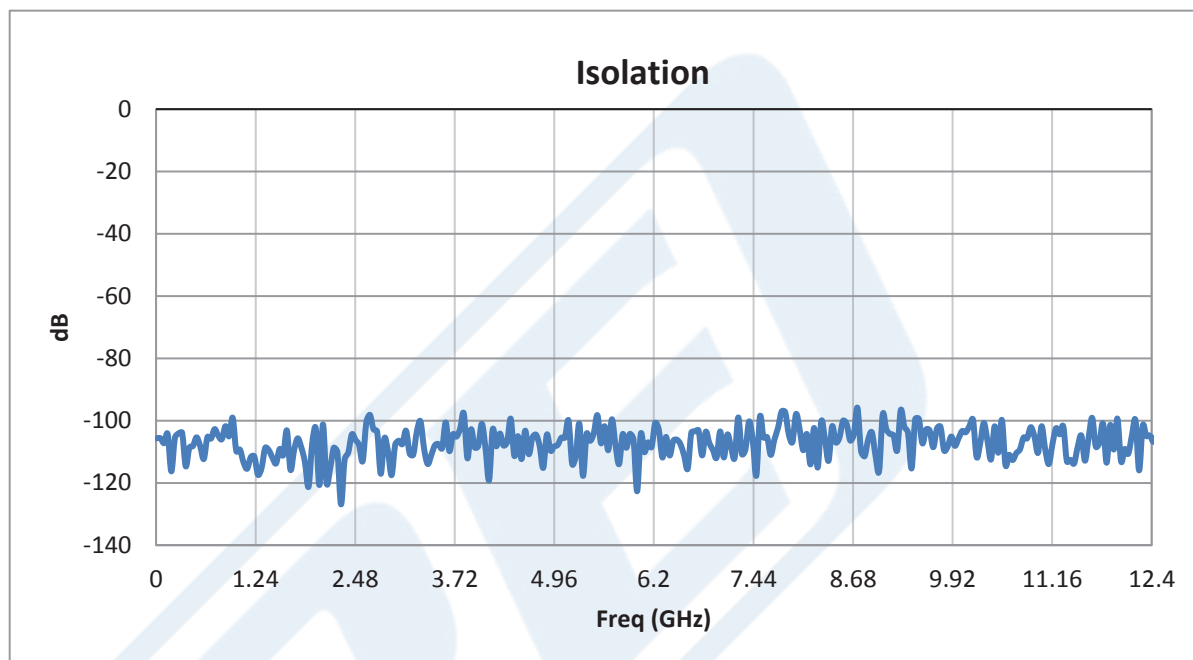
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SP6T Electromechanical Relay Latching Switch, DC to 12.4 GHz, up to 400W, 28V Indicators, Reset, N PE71S6073](#)



SP6T Electromechanical Relay Latching Switch, DC to 12.4 GHz, up to 400W, 28V Indicators, Reset, N

## Electromechanical Relay Switches Technical Data

PE71S6073



SP6T Electromechanical Relay Latching Switch, DC to 12.4 GHz, up to 400W, 28V Indicators, Reset, N from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

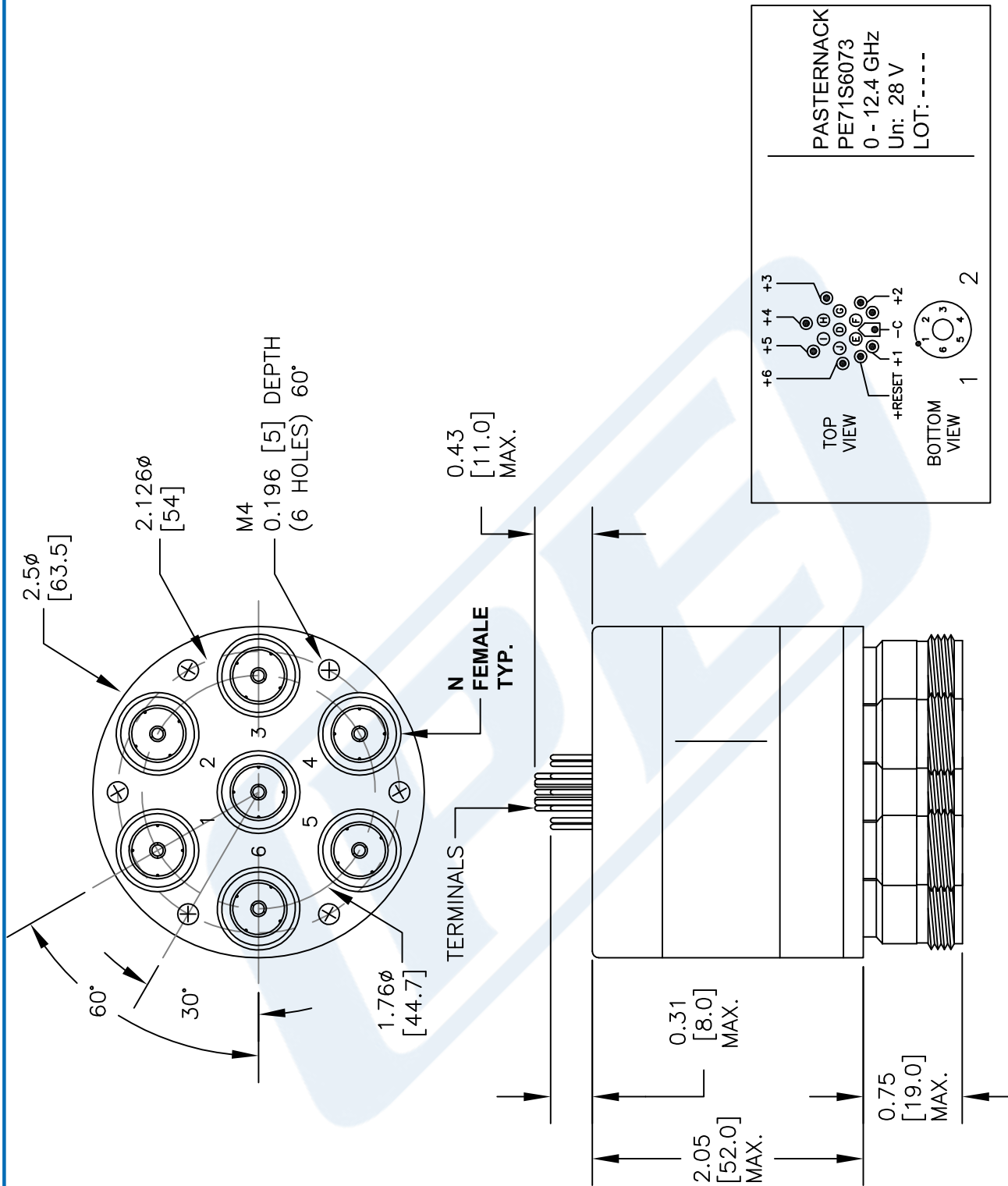
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SP6T Electromechanical Relay Latching Switch, DC to 12.4 GHz, up to 400W, 28V Indicators, Reset, N PE71S6073](https://www.pasternack.com/n-sp6t-electromechanical-relay-switch-12.4-ghz-indicators-pe71s6073-p.aspx)

URL: <https://www.pasternack.com/n-sp6t-electromechanical-relay-switch-12.4-ghz-indicators-pe71s6073-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.

# PE71S6073 CAD Drawing

SP6T Electromechanical Relay Latching Switch, DC to  
12.4 GHz, up to 400W, 28V Indicators, Reset, N



DWG TITLE

**PE71S6073**

NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].

**PE PASTERNAK**  
THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: [www.pasternack.com](http://www.pasternack.com) | E-Mail: [sales@pasternack.com](mailto:sales@pasternack.com)

FSCM NO. 53919

CAD FILE 083115

SCALE N/A

SIZE A

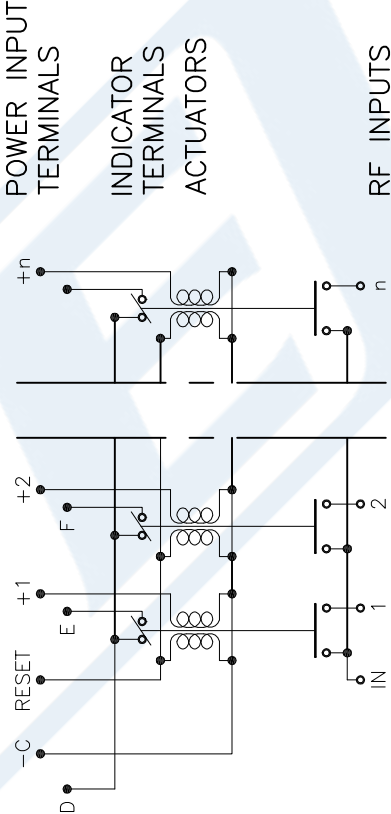
150

PE71S6073 CAD Drawing

SP6T Electromechanical Relay Latching Switch, DC to 12.4 GHz, up to 400W, 28V Indicators, Reset, N

Voltage	RF Continuity	Indicator
- C +RESET	ALL PORTS OPEN	- -
- C + 1	IN ↔ 1	D.E
- C + 2	IN ↔ 2	D.F
- C + 3	IN ↔ 3	D.G
- C + 4	IN ↔ 4	D.H
- C + 5	IN ↔ 5	D.I
- C + 6	IN ↔ 6	D.J

SCHEMATIC DIAGRAM



NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE	FSCM NO. 53919	CAD FILE	120114	SCALE	N/A	SIZE	A	150
PE71S6073								

**PE PASTERNAK®**  
THE ENGINEER'S RF SOURCE  
Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: www.pasternack.com | E-Mail: sales@pasternack.com