

## SP6T Electromechanical Relay Latching Switch, DC to 26.5 GHz, up to 250W, 28V Global Reset, SMA



## **Electromechanical Relay Switches Technical Data Sheet**

PE71S6087

#### **Features**

- Single Pole Six Throw Relay Switch
- DC to 26.5 GHz Frequency Range
- 10M Cycle Min (25M Typ) Operating Life
- 40 Watt Avg Power Max

- -40 to +85 Deg C Operating Temperature
- Insertion Loss 0.6 dB Max
- **VSWR 1.6:1 Max**

### **Applications**

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

#### **Description**

The PE71S6087 is a Single Pole Six Throw Electromechanical Relay Switch that operates from DC to 26.5 GHz and can handle up to 250 Watts of CW input power in a Break Before Make condition. The design features a Latching Actuator with Global Reset circuitry and is rated for 10M Life Cycles (25M typical) 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 SMA Female connectors.

#### **Electrical Specifications**

Switch Type Actuator Type Switching Sequence **Actuator Options** 

Polarity

SP6T Latching Break before Make Global Reset Positive Common

50 28 98	26.5 30 1.6:1	GHz Ohms Volts mA
28	1.6:1	Volts
	1.6:1	
98		mA
	0.6	dB
		dB
285		Ohms
	40	Watts
	10	ms Max
	285	40

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 26.5 GHz, up to 250W, 28V Global Reset, SMA PE71S6087

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



# SP6T Electromechanical Relay Latching Switch, DC to 26.5 GHz, up to 250W, 28V Global Reset, SMA



## **Electromechanical Relay Switches Technical Data**

#### PE71S6087

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 8	8 to 12.4	12.4 to 18	18 to 26.5	GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	
Insertion Loss, Max	0.2	0.3	0.4	0.5	0.6	dB
Isolation, Min	80	70	60	60	55	dB
Input Power, Max (CW)	250	150	120	100	40	Watts

**Electrical Specification Notes:** 

Average Power and Actuating Current values at 25°C.

#### **Mechanical Specifications**

Size

 Length
 1.45 in [36.83 mm]

 Width/Diameter
 1.327 in [33.71 mm]

 Height
 1.327 in [33.71 mm]

 Weight
 0.379 lbs [171.91 g]

 Package Type
 Connectorized

 Operating Life
 10,000,000 Cycles

Connectors

RF Connector Type SMA Female Control Connector Solder Pin

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

Specified operating life is minimum. Typical operating life is 25M cycles.

#### **Environmental Specifications**

**Temperature** 

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

Shock MIL-STD-202, Method 213B, Cond. C
Sine Vibration MIL-STD-202, Method 204D, Cond. D
Random Vibration MIL-STD-202, Method 214A, Profile I, Cond. F

**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 26.5 GHz, up to 250W, 28V Global Reset, SMA PE71S6087

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



# SP6T Electromechanical Relay Latching Switch, DC to 26.5 GHz, up to 250W, 28V Global Reset, SMA



## **Electromechanical Relay Switches Technical Data**

PE71S6087

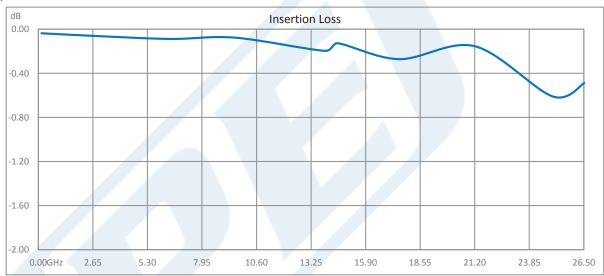
Compliance Certifications (see product page for current document)

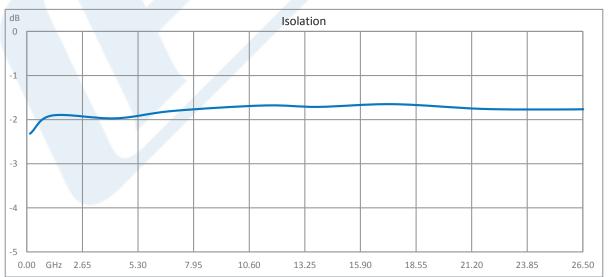
#### **Plotted and Other Data**

Notes:

• Values shown are typical at 25°C.

#### **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 26.5 GHz, up to 250W, 28V Global Reset, SMA PE71S6087

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



# SP6T Electromechanical Relay Latching Switch, DC to 26.5 GHz, up to 250W, 28V Global Reset, SMA



## **Electromechanical Relay Switches Technical Data**

#### PE71S6087



SP6T Electromechanical Relay Latching Switch, DC to 26.5 GHz, up to 250W, 28V Global Reset, SMA 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.

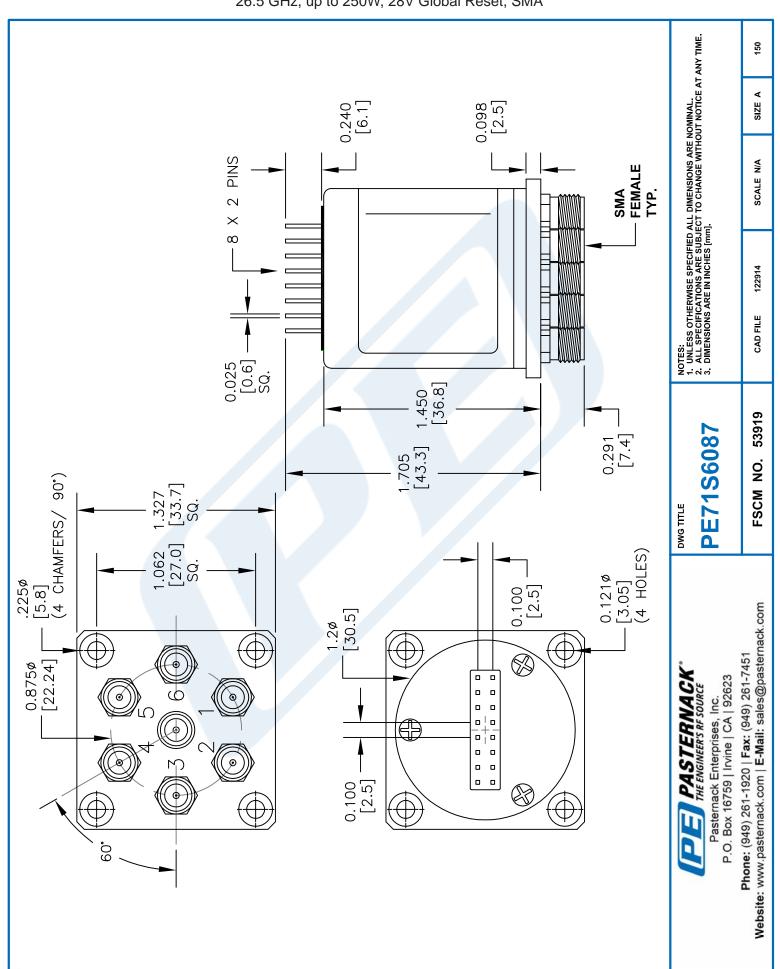
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP6T Electromechanical Relay Latching Switch, DC to 26.5 GHz, up to 250W, 28V Global Reset, SMA PE71S6087

URL: https://www.pasternack.com/sma-sp6t-electromechanical-relay-switch-26.5-ghz-latching-pe71s6087-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.

# PE71S6087 CAD Drawing

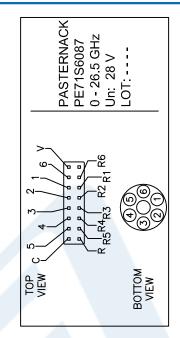
SP6T Electromechanical Relay Latching Switch, DC to 26.5 GHz, up to 250W, 28V Global Reset, SMA



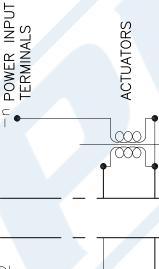
## PE71S6087 CAD Drawing

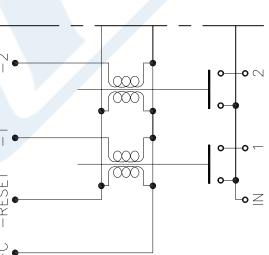
SP6T Electromechanical Relay Latching Switch, DC to 26.5 GHz, up to 250W, 28V Global Reset, SMA

Indicator	Q+	NC	-	-2	-3	4-	-5	9-	-RESET	NC	NC	NC	NC	NC	NC
PIN	O	^	1	2	3	4	5	9	Я	R1	R2	R3	R4	R5	R6



RF INPUTS





DWG TITLE

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].

PE71S6087

53919 <u>8</u> **FSCM** 

150

SIZE

SCALE N/A

122914

CAD FILE

Pasternack Enterprises, Inc. P.O. Box 16759 | Irvine | CA | 92623

PASTERNACK

THE ENGINEER'S RF SOURCE

Website: www.pasternack.com | E-Mail: sales@pasternack.com Phone: (949) 261-1920 | Fax: (949) 261-7451

SCHEMATIC DIAGRAM