



## SP6T Electromechanical Relay Switch DC to 26.5 GHz, SMA, 250 Watts, 28V Control

### TECHNICAL DATA SHEET

PE71S6087

The PE71S6087 is a SINGLE POLE SIX THROW RF COAXIAL RELAY SWITCH that operates from DC TO 26.5 GHz. The Switch has a 28 VDC LATCHING ACTUATOR. The Switch has SMA RF CONNECTORS and operates from -40 Deg C to +85 Deg C.

#### Features

- Single Pole Six Throw Relay Switch
- DC to 26.5 GHz Frequency Range
- 10M Operating Life
- 40 Watt Avg Power Min
- -40 to +85 Deg C Operating Temperature
- Insertion Loss 0.6 dB Max
- VSWR 1.6:1 Max

#### Applications

- General Purpose High Performance SP6T Relay Switch
- Military Communications
- Communications Systems
- Test & Measurement

#### Electrical Specifications

Frequency Range	DC to 26.5 GHz
Impedance	50 Ohms
Control Voltage	28 Volts / Positive Common
Operating Current	98 mA
TTL Inputs (E): - High Level	2.2 to 5.5 Volts / 0.8 mA at 5.5 Volts
- Low Level	0 to 0.8 Volts / 0.02 mA at 0.8 Volts

#### RF Characteristic

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Frequency Range	DC to 3	3 to 8	8 to 12.4	12.4 to 18	18 to 26.5	GHz
VSWR	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	
Insertion Loss	0.2	0.3	0.4	0.5	0.6	dB
Isolation	80	70	60	60	55	dB
Average Power @25°C	250	150	120	100	40	Watts

#### Mechanical Specifications

Connector Type	SMA Female
Operating Life	10,000,000
Terminals	Solder Pins
Switching Time (nominal voltage, 25°C)	<10 ms Typ

#### Environmental Specifications

##### Temperature

Operating Range	-40 to +85 deg C
Storage Range	-55 to +85 deg 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 Switch DC to 26.5 GHz, SMA, 250 Watts, 28V Control PE71S6087](#)



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Shock  
Vibration

MIL-STD 202, Method 213B, Cond. C  
MIL-STD 202, Method 204D, Cond. D

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)  
RoHS Compliant

#### Plotted and Other Data

Notes:

- Values at +25 °C, sea level

SP6T Electromechanical Relay Switch DC to 26.5 GHz, SMA, 250 Watts, 28V 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.

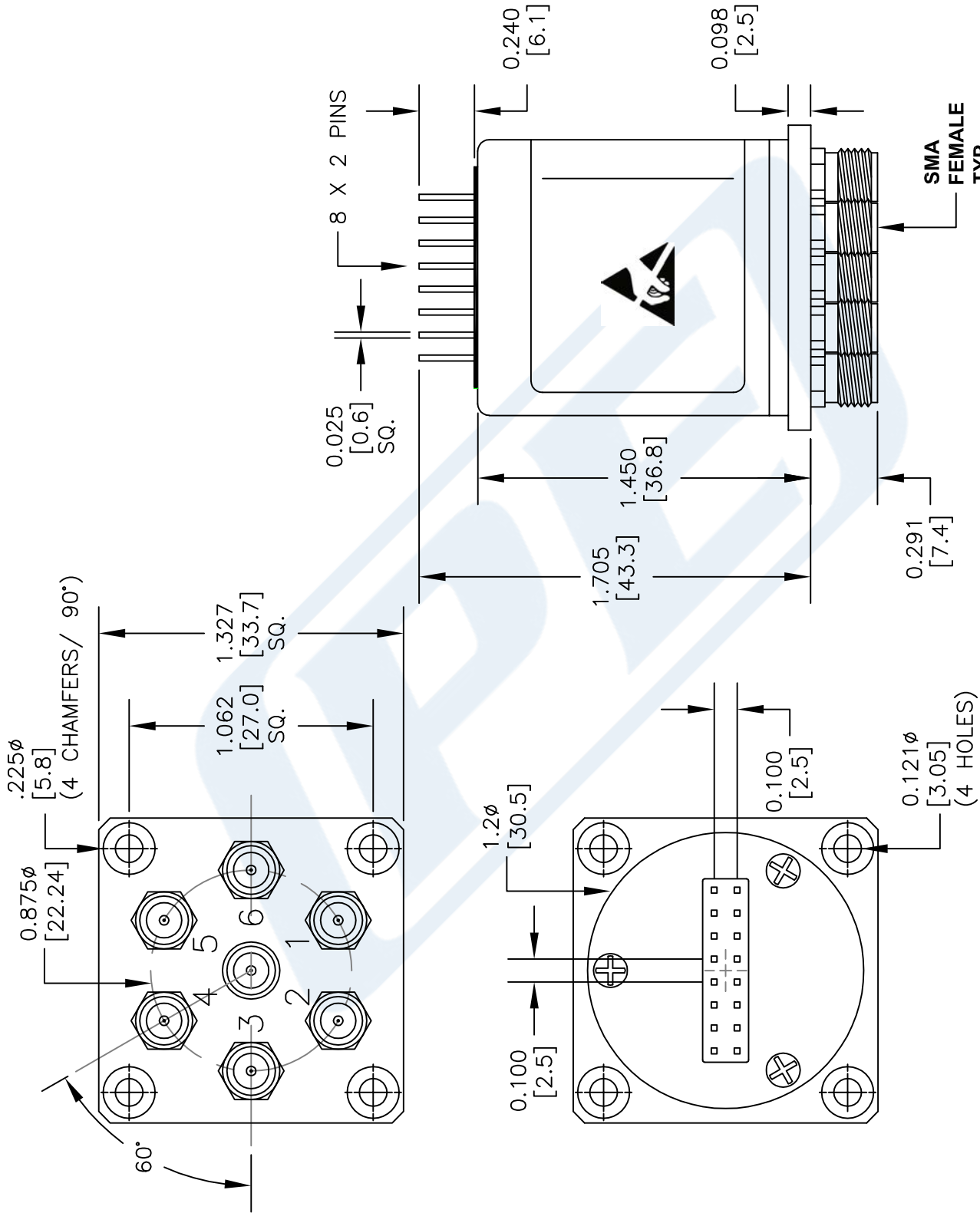
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URL: <http://www.pasternack.com/sma-sp6t-electromechanical-relay-switch-26.5-ghz-latching-pe71s6087-p.aspx>

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 Switch DC to 26.5 GHz, SMA, 250 Watts, 28V Control



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  
**PE71S6087**

FSCM NO. 53919

CAD FILE 122914

SCALE N/A

SIZE A

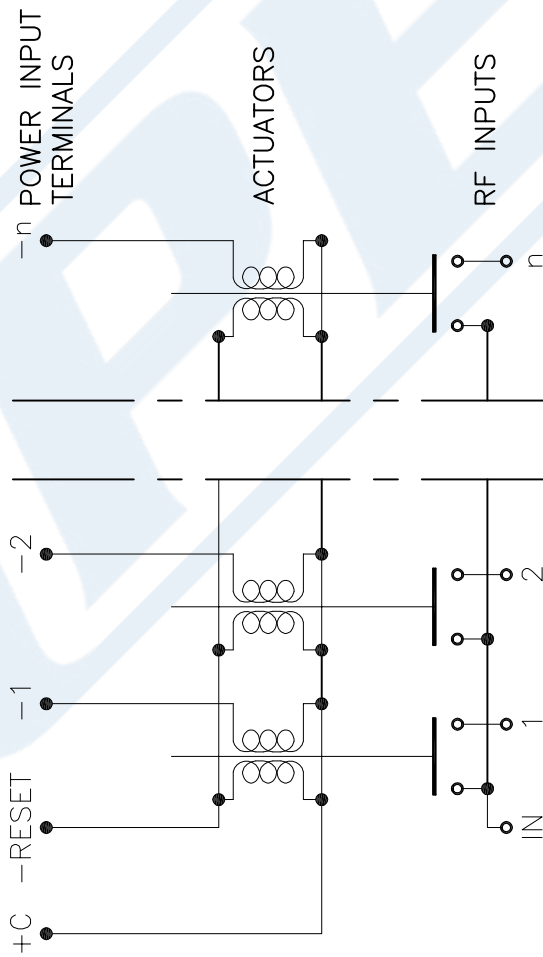
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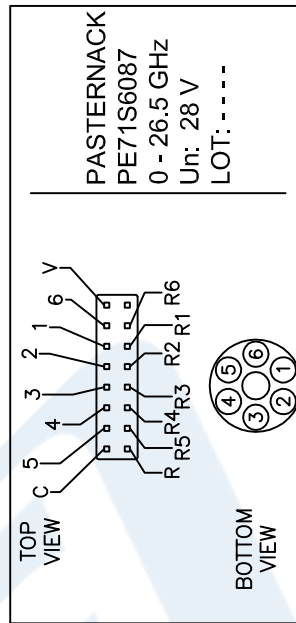
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## SCHEMATIC DIAGRAM



PIN	Indicator
C	+C
V	NC
1	-1
2	-2
3	-3
4	-4
5	-5
6	-6
R	-RESET
R1	NC
R2	NC
R3	NC
R4	NC
R5	NC
R6	NC



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