PASTERNACK®
THE ENGINEER'S RF SOURCE



SP6T Electromechanical Relay Switch DC to 6 GHz, SMA, 80 Watts, 28V Control with Normally Open

TECHNICAL DATA SHEET PE71S6085

The PE71S6085 is a SINGLE POLE SIX THROW RF COAXIAL RELAY SWITCH that operates from DC TO 6 GHz. The Switch has a 28 VDC NORMALLY OPEN 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 6 GHz Frequency Range
- 10M Operating Life
- 70 Watt Avg Power Min
- -40 to +85 Deg C Operating Temperature
- Insertion Loss 0.3 dB Max
- VSWR 1.3:1 Max

Applications

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

Electrical Specifications

Frequency Range	DC to 6 GHz
Impedance	50 Ohms
Actuator	Normally Open
Actuating Current	110 mA
Control Voltage	28 Volts
Insertion Loss	0.3 dB Max
Input VSWR	1.3:1 Max
Output VSWR	1.3:1 Max
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 6				GHz
VSWR	1.2:1	1.3:1				
Insertion Loss	0.2	0.3				dB
Isolation	80	70				dB
Average Power @25 °C	80	70				Watts

Mechanical Specifications

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

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 6 GHz, SMA, 80 Watts, 28V Control with Normally Open PE71S6085

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
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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
Vibration	MIL-STD 202, Method 204D, Cond. D

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant

Plotted and Other Data

Notes:

- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation



SP6T Electromechanical Relay Switch DC to 6 GHz, SMA, 80 Watts, 28V Control with Normally Open 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-6-ghz-normallyopen-pe71s6085-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.

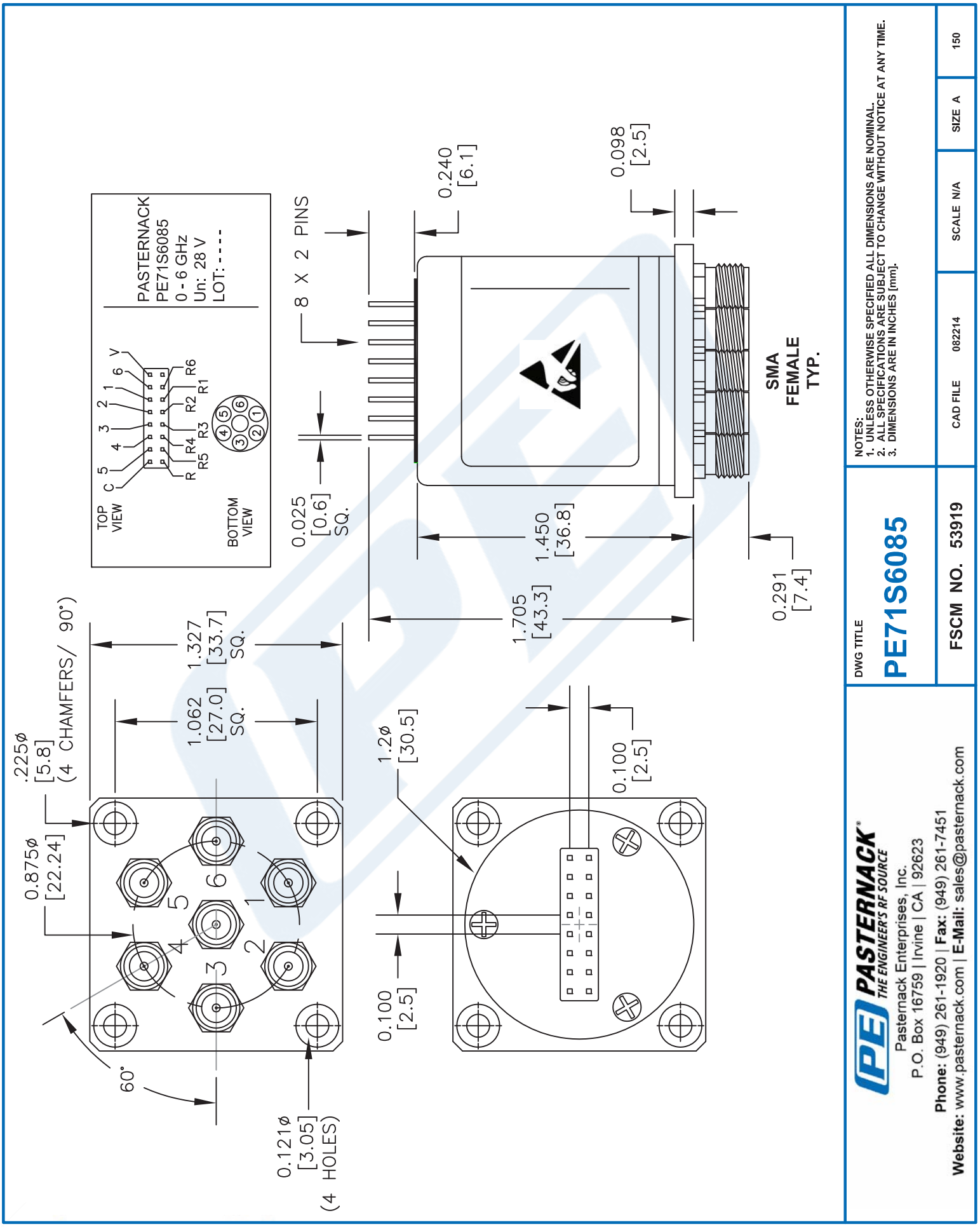
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PE71S6085 CAD Drawing

SP6T Electromechanical Relay Switch DC to 6 GHz, SMA,
80 Watts, 28V Control with Normally Open

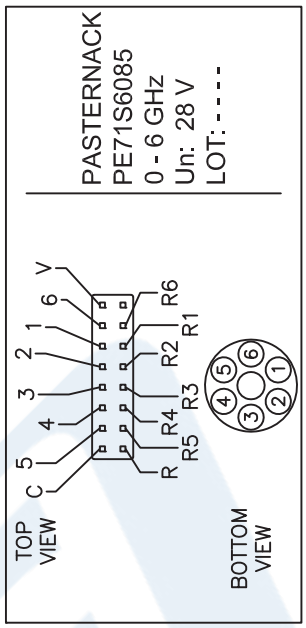


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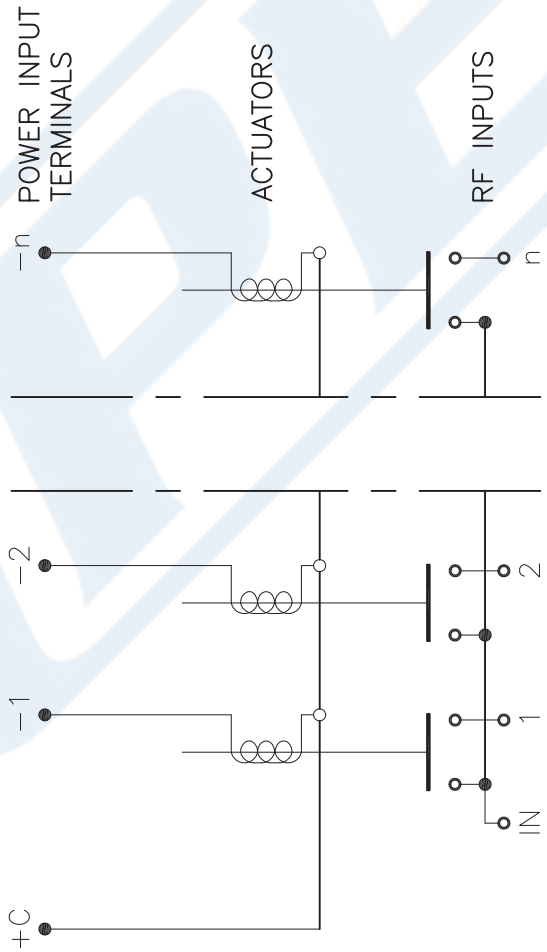
PE71S6085 CAD Drawing

SP6T Electromechanical Relay Switch DC to 6 GHz, SMA,
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PIN	Indicator
C	+C
1	−1
2	−2
3	−3
4	−4
5	−5
6	−6
R	NC
R1	NC
R2	NC
R3	NC
R4	NC
R5	NC
R6	NC



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: PE71S6085

CAD FILE 082214 | SCALE N/A | SIZE A | 150

FSCM NO. 53919

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