



SP6T Electromechanical Relay Switch DC to 40 GHz,
2.92mm, 60 Watts, 28V Control with Latching

TECHNICAL DATA SHEET

PE71S6089

The PE71S6089 is a SINGLE POLE SIX THROW RF COAXIAL RELAY SWITCH that operates from DC TO 40 GHz. The Switch has a 28 VDC LATCHING ACTUATOR. The Switch has 2.92mm RF CONNECTORS and operates from -40 Deg C to +85 Deg C.

Features

- Single Pole Six Throw Relay Switch
- DC to 40 GHz Frequency Range
- 2M Operating Life
- 5 Watt Avg Power Min
- -40 to +85 Deg C Operating Temperature
- Insertion Loss 1.1 dB Max
- VSWR 2.2:1 Max

Applications

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

Electrical Specifications

Frequency Range	DC to 40 GHz
Impedance	50 Ohms
Actuator	Latching
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 8	8 to 12.4	12.4 to 18	18 to 26.5	26.5 to 40	GHz
VSWR	1.3:1	1.4:1	1.5:1	1.7:1	2.2:1	
Insertion Loss	0.3	0.4	0.5	0.7	1.1	dB
Isolation	70	60	60	55	45	dB
Average Power @25 °C	35	30	25	15	5	Watts

Mechanical Specifications

Connector Type	2.92mm Female
Operating Life	2,000,000
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 40 GHz, 2.92mm, 60 Watts, 28V Control with Latching PE71S6089](#)





SP6T Electromechanical Relay Switch DC to 40 GHz,
2.92mm, 60 Watts, 28V Control with Latching

TECHNICAL DATA SHEET

PE71S6089

Shock
Vibration

MIL-STD 202, Method 213B, Cond. C
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 40 GHz, 2.92mm, 60 Watts, 28V Control with Latching 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.

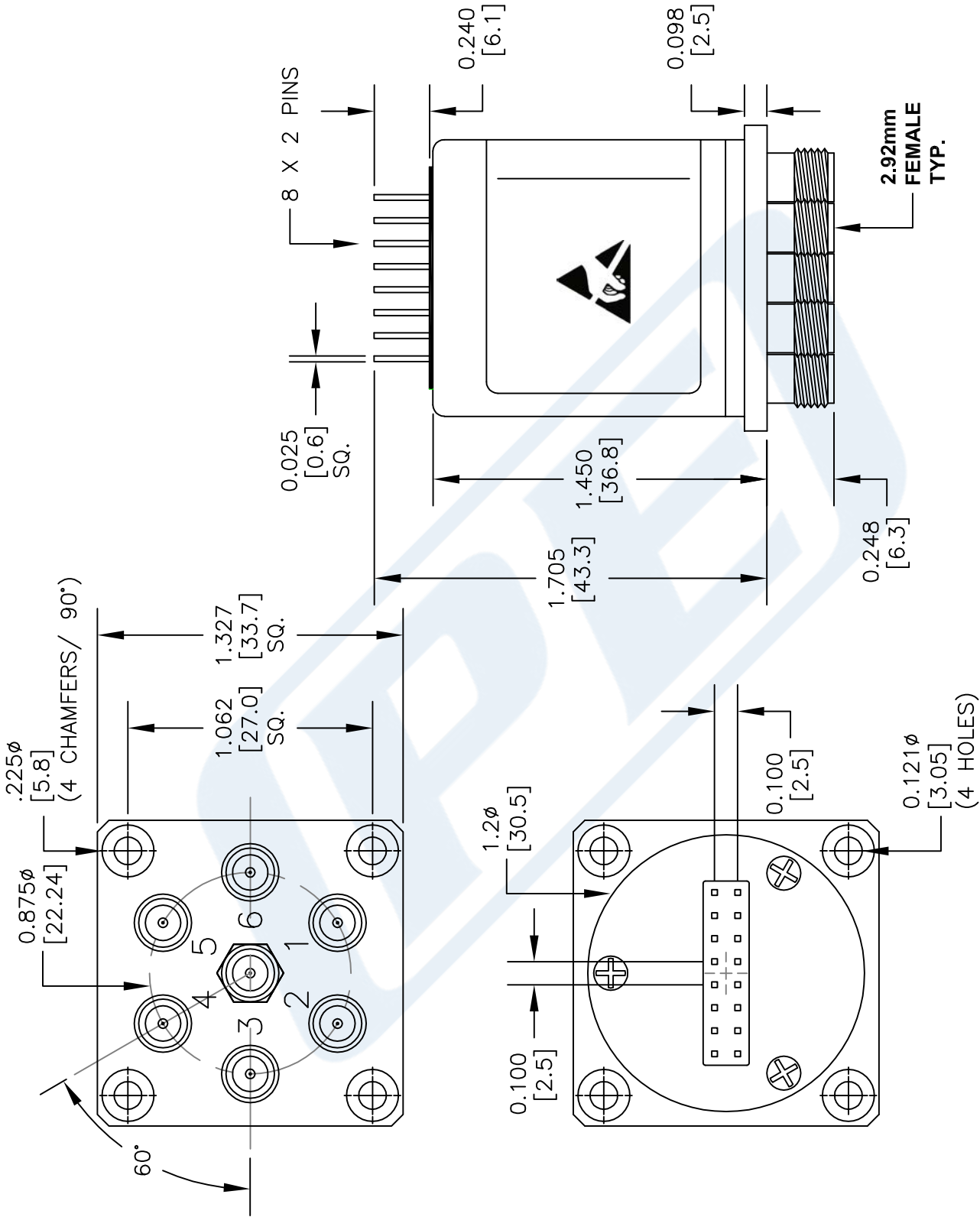
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SP6T Electromechanical Relay Switch DC to 40 GHz, 2.92mm, 60 Watts, 28V Control with Latching PE71S6089](#)

URL: <http://www.pasternack.com/2.92mm-sp6t-electromechanical-relay-switch-40-ghz-latching-pe71s6089-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.

PE71S6089 CAD Drawing

SP6T Electromechanical Relay Switch DC to 40 GHz,
2.92mm, 60 Watts, 28V Control with Latching



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
PE71S6089

FSCM NO. 53919

150

SIZE A

SCALE N/A

120214

CAD FILE

PE PASTERNAK
THE ENGINEER'S RF SOURCE
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623

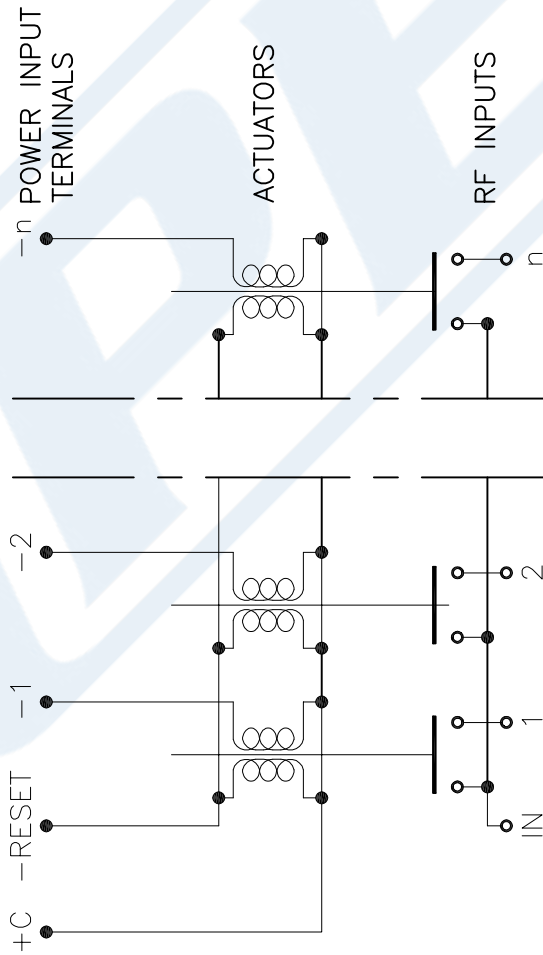
Phone: (949) 261-1920 | Fax: (949) 261-7451

Website: www.pasternack.com | E-Mail: sales@pasternack.com

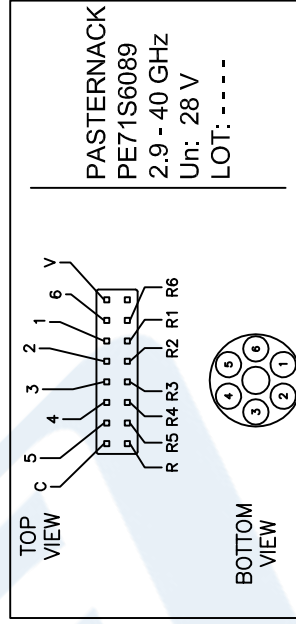
PE71S6089 CAD Drawing

SP6T Electromechanical Relay Switch DC to 40 GHz,
2.92mm, 60 Watts, 28V Control with Latching

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



DWG TITLE

PE71S6089

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 | E-Mail: sales@pasternack.com

FSCM NO. 53919

CAD FILE 122914

SCALE N/A

SIZE A

150