



SP4T Electromechanical Relay Switch DC to 40 GHz, 2.92mm, 10 Watts, 28V Control with Latching

TECHNICAL DATA SHEET

PE71S6139

The PE71S6139 is Single Pole Four Throw Switch that operates from DC to 40 GHz. The switch has a latching actuator and 1M life cycles. The switch has an operating voltage of 28 Volts.

Features

- SP4T Switch
- DC to 40 GHz Operating Frequency Range
- 1 M Cycles min
- Latching Switch
- Set Reset Circuitry
- Switching Sequence Break Before Make

Applications

- Test & Measurement
- Communications System
- Instrumentation

Electrical Specifications

Frequency Range	DC to 40 GHz
Impedance	50 Ohms
Actuator	Latching
Actuating Current	300 mA
Control Voltage	28 Volts
RF Input Power (Max CW)	10 Watts

RF Characteristic

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Frequency Range	DC to 6	6 to 12	12 to 18	18 to 26.5	26.5 to 40	GHz
VSWR, Max	1.3:1	1.4:1	1.5:1	1.7:1	2:1	
Insertion Loss, Max	0.2	0.4	0.5	0.8	0.9	dB
Isolation, Min	70	60	60	55	50	dB

Mechanical Specifications

Connector Type	2.92mm Female
Operating Life	1,000,000
Terminals	Solder Pins
Switching Time (nominal voltage, 25°C)	35 ms Max

Environmental Specifications

Temperature	
Operating Range	-35 to +85 deg C
Environment	MIL-DTL-3928
Housing Material and Plating	Aluminum

Compliance Certifications (visit www.Pasternack.com for current document)
Not RoHS Compliant

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SP4T Electromechanical Relay Switch DC to 40 GHz, 2.92mm, 10 Watts, 28V Control with Latching PE71S6139](#)



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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



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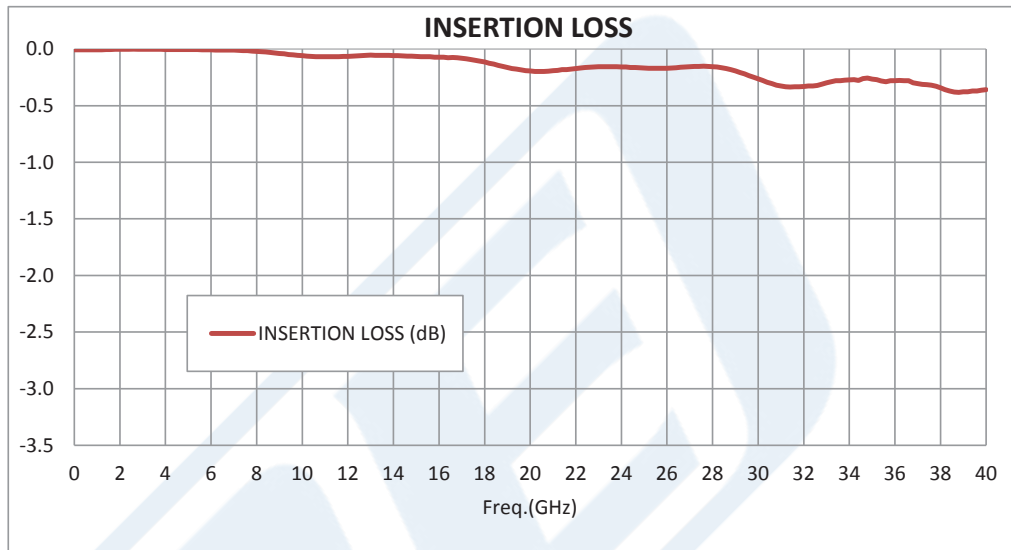
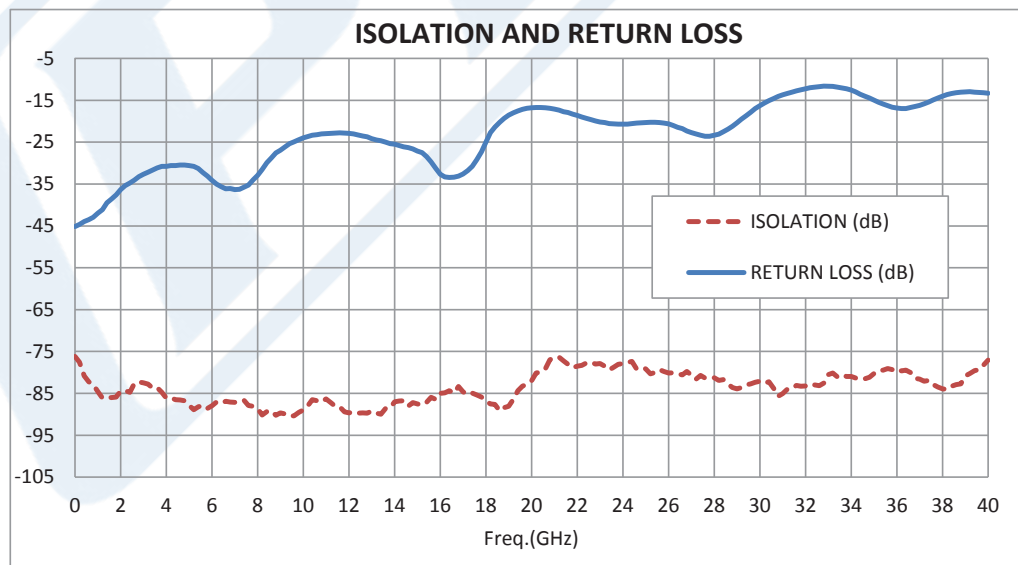


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Typical Performance Data



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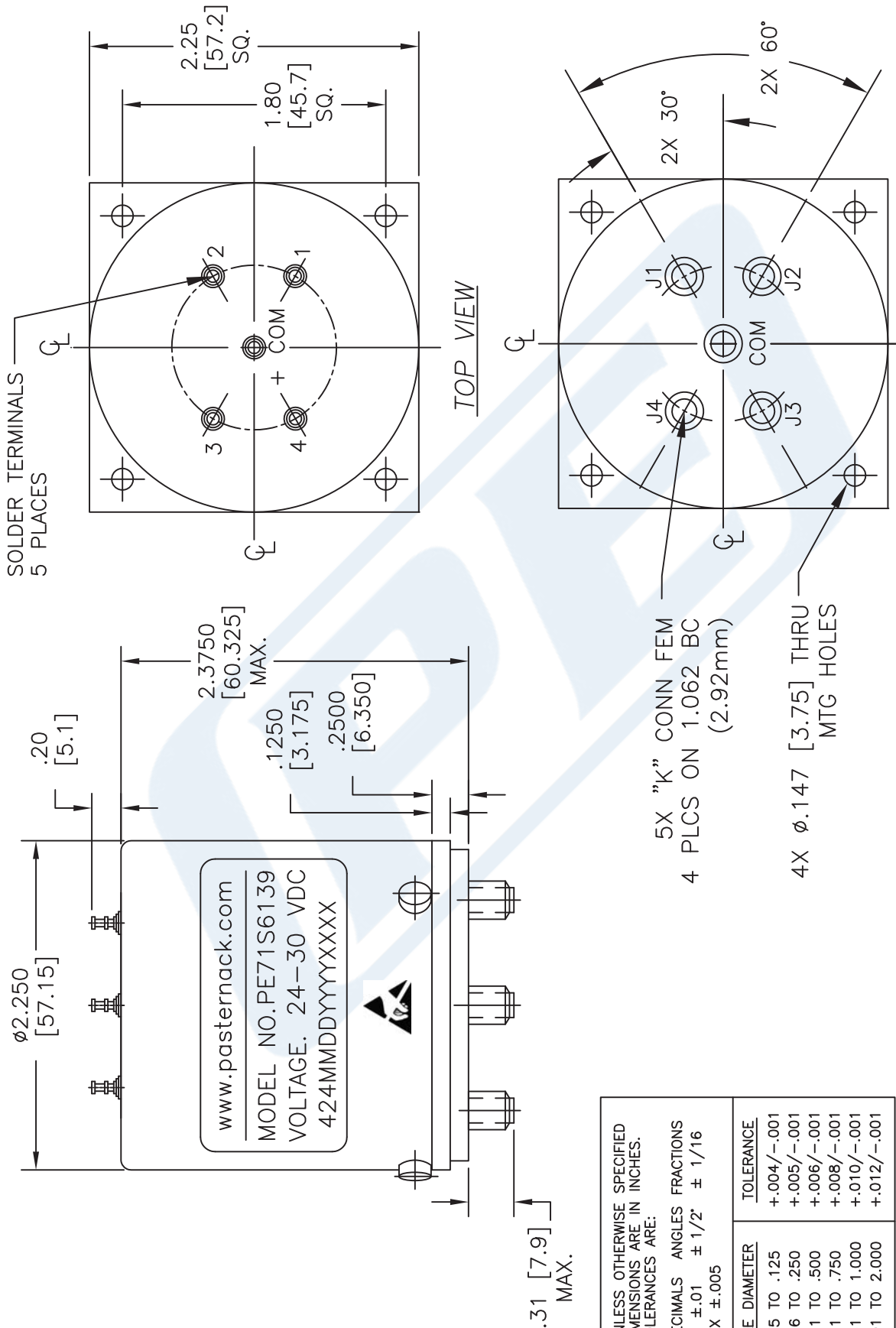
PE71S6139



UL
REGISTERED FIRM

PE71S6139 CAD Drawing

SP4T Electromechanical Relay Switch DC to 40 GHz,
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:	
DECIMALS	ANGLES
.XX ±.01	± 1/2° ± 1/16
.XXX ±.005	
HOLE DIAMETER	TOLERANCE
.0135 TO .125	+ .004 / - .001
.126 TO .250	+ .005 / - .001
.251 TO .500	+ .006 / - .001
.501 TO .750	+ .008 / - .001
.751 TO 1.000	+ .010 / - .001
1.001 TO 2.000	+ .012 / - .001

* THESE DIMENSIONS AND TOLERANCES
SUPERSEDE NOTE #1 ON TITLE BLOCK.

PE PASTERNAK®
THE ENGINEER'S RF SOURCE

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DWG TITLE

PE71S6139

FSCM NO. 53919

CAD FILE 022615

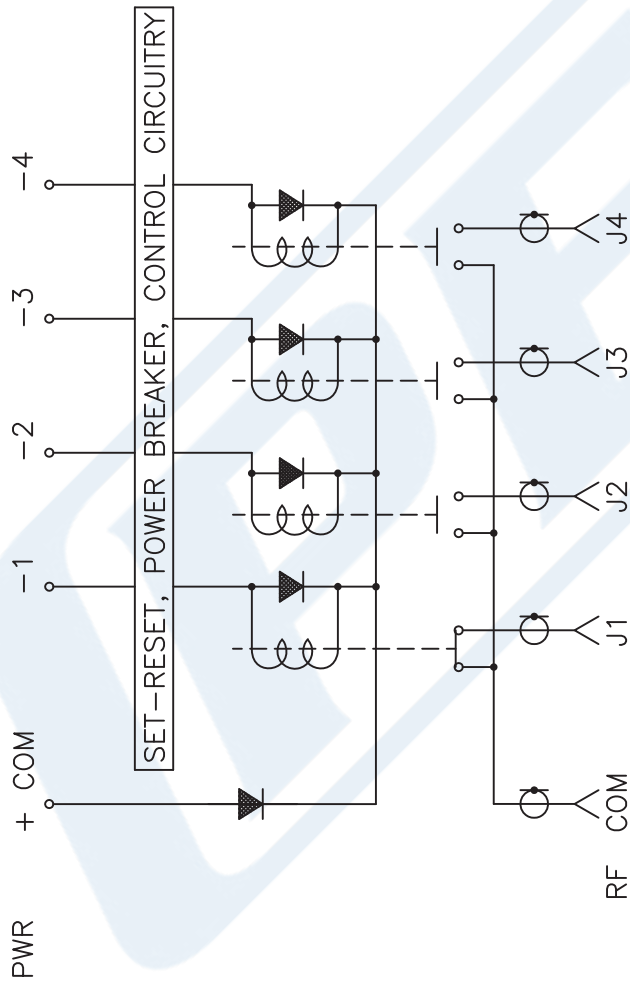
SCALE N/A

SIZE A

200

PE71S6139 CAD Drawing

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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
PE71S6139

FSCM NO. 53919

200

SIZE A

SCALE N/A

CAD FILE 022615

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