

## SP6T Electromechanical Relay Switch DC to 10 GHz, N, 160 Watts, 28V Control with Normally Open

### TECHNICAL DATA SHEET

PE71S6187

The PE71S6187 is a SP6T Switch that operates from DC to 10 GHz. The switch has a Normally Open actuator and 1M life cycles. The switch has an operating voltage of +28 Volts.

#### Features

- SP6T Switch
- DC to 10 GHz Operating Frequency Range
- 1 M Cycles min
- Normally Open Switch

#### Applications

- Test & Measurement
- Communications System
- Instrumentation

#### Electrical Specifications

Frequency Range	DC to 10 GHz
Impedance	50 Ohms
Actuator	Normally Open
Actuating Current	150 mA
Control Voltage	28 Volts
RF Input Power (Max CW)	160 Watts

#### RF Characteristic

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Frequency Range	DC to 4	4 to 8	8 to 10			GHz
VSWR, Max	1.25:1	1.4:1	1.6:1			
Insertion Loss, Max	0.25	0.4	0.6			dB
Isolation, Min	80	70	60			dB

#### Mechanical Specifications

Connector Type	N Female
Operating Life	1,000,000
Terminals	Solder Pins
Switching Time (nominal voltage, 25°C)	50 ms Max

#### Environmental Specifications

<b>Temperature</b>	
Operating Range	-25 to +65 deg C
Environment	Designed to Meet MIL-DTL-3928

#### Compliance Certifications (visit [www.Pasternack.com](http://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: [SP6T Electromechanical Relay Switch DC to 10 GHz, N, 160 Watts, 28V Control with Normally Open PE71S6187](#)

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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.



SP6T Electromechanical Relay Switch DC to 10 GHz, N, 160 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.

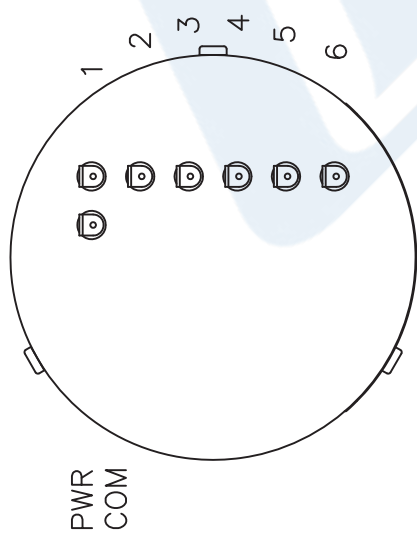
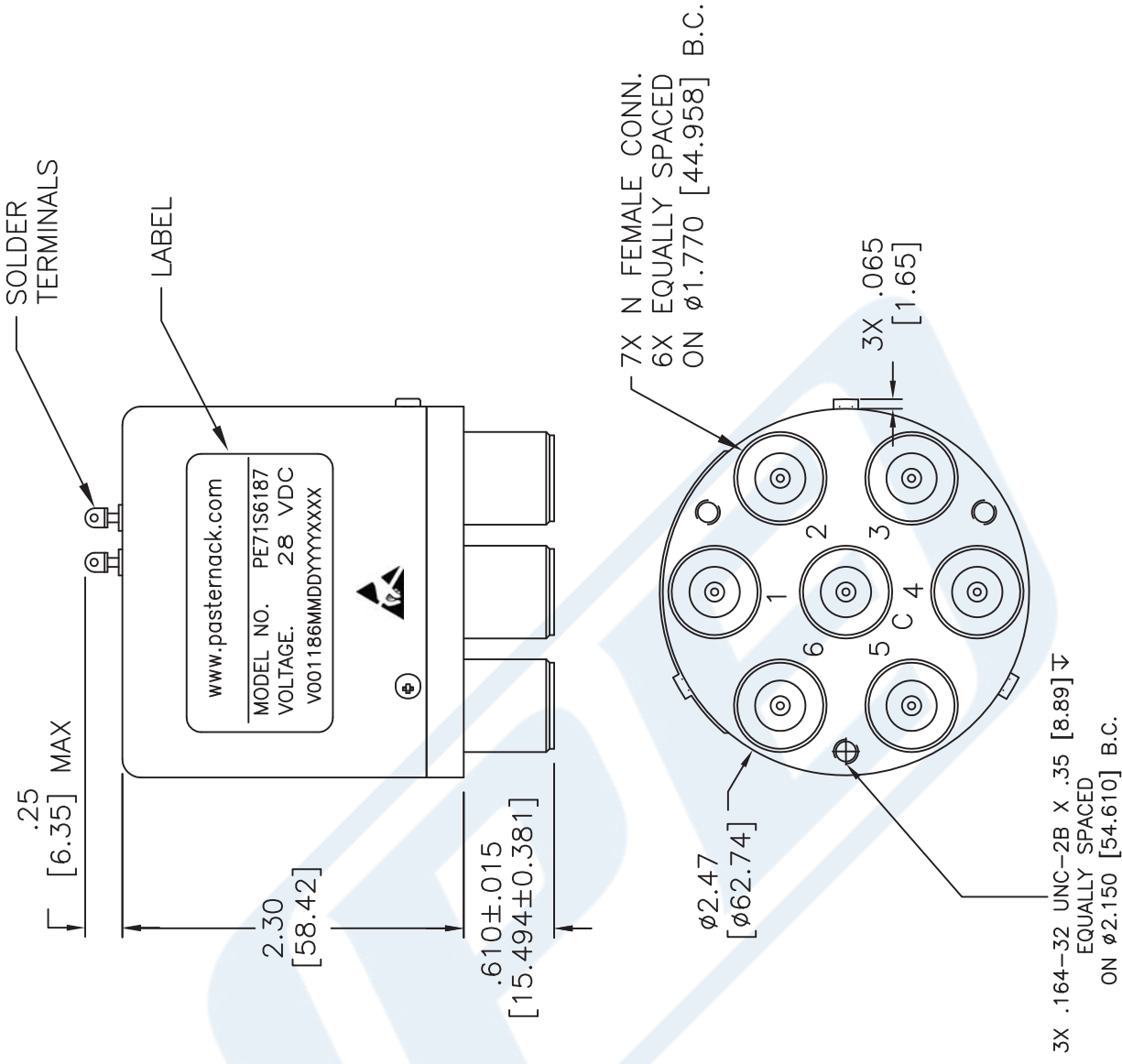
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.

# PE71S6187 CAD Drawing

SP6T Electromechanical Relay Switch DC to 10 GHz, N,  
160 Watts, 28V Control with Normally Open



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		ANGLES ±1°	
DECIMALS	.XX ± .03 (0.76)	FRACTIONS	±1/16
HOLE DIAMETER		TOLERANCE	
.0135 TO .125 (0.343 TO 3.175)		+ .004 TO - .001 (+0.102 TO -0.025)	
.126 TO .250 (3.200 TO 6.350)		+ .005 TO - .001 (+0.127 TO -0.025)	
.251 TO .500 (6.375 TO 12.700)		+ .006 TO - .001 (+0.152 TO -0.025)	
.501 TO .750 (12.725 TO 19.050)		+ .008 TO - .001 (+0.203 TO -0.025)	
.751 TO 1.000 (19.075 TO 25.400)		+ .010 TO - .001 (+0.254 TO -0.025)	
1.001 TO 2.000 (25.425 TO 50.800)		+ .012 TO - .001 (+0.305 TO -0.025)	

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

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].

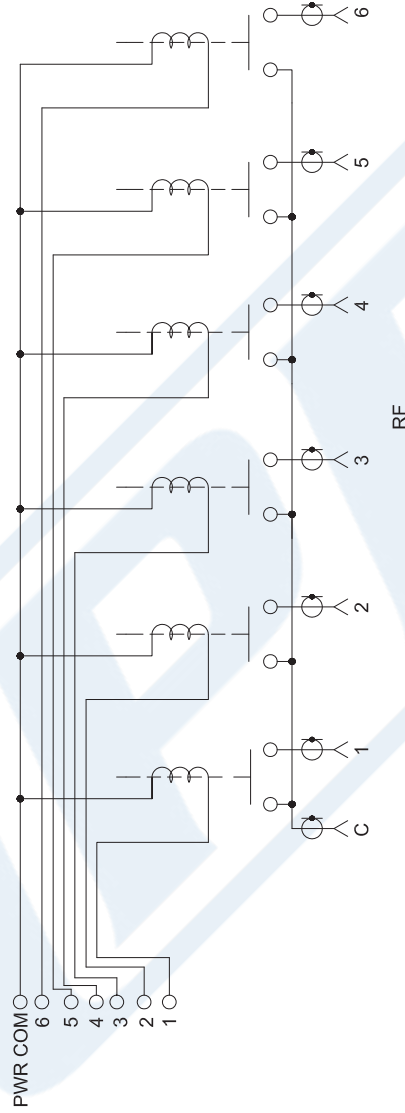
DWG TITLE  
**PE71S6187**

**PE PASTERNAK®**  
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FSCM NO. 53919  
SCALE N/A  
SIZE A  
2233

# PE71S6187 CAD Drawing

SP6T Electromechanical Relay Switch DC to 10 GHz, N,  
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SCHEMATIC NORMALLY OPEN SHOWN IN DE-ENERGIZED POSITION

DWG TITLE

**PE71S6187**

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CAD FILE 060815

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