



SP4T Electromechanical Relay Latching Switch DC to 22 GHz,  
SMA, 20 Watts, 28V Control, Indicators, TTL, Self Cut Off, Diodes

## Electromechanical Relay Switches Technical Data Sheet

PE71S6308

### Features

- SP4T Absorptive Switch
- DC to 22 GHz Operating Frequency Range
- 1 M Cycles min

### Applications

- Test & Measurement
- Communications System
- Instrumentation

### Description

The PE71S6308 is a Single Pole Four Throw Absorptive Switch that operates from DC to 22 GHz. The switch has a latching actuator and an indicator and 1M life cycles. The switch has an operating voltage of 28 Volts and has TTL control.

### Electrical Specifications

Switch Type	SP4T, Absorptive
Actuator Type	Latching
Switching Sequence	Break Before Make
Actuator Options	Indicators, TTL Logic, Self Cut Off, Diodes
TTL Control	on: "High" 2.4 to 5 Volts off: "Low" 0 to 0.8 Volts

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		22	GHz
Impedance		50		Ohms
Operating Voltage		28		Volts
Actuating Current @ 28 Volts		145		mA
VSWR			1.6:1	
Insertion Loss			0.6	dB
Isolation	60			dB
Input Power (CW) (22 GHz)			20	Watts

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 8	8 to 12	12 to 18	18 to 22	GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	
Insertion Loss, Max	0.3	0.35	0.4	0.5	0.6	dB
Isolation, Min	75	70	65	60	60	dB

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 Latching Switch DC to 22 GHz, SMA, 20 Watts, 28V Control, Indicators, TTL, Self Cut Off, Diodes PE71S6308](#)



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### Mechanical Specifications

#### Size

Length	2.13 in [54.1 mm]
Width/Diameter	2.13 in [54.1 mm]
Height	2.58 in [65.53 mm]
Weight	0.625 lbs [283.5 g]
Body Material and Plating	Aluminum, Nickel
Operating Life	1,000,000 Cycles
Switching Time	20 ms Max

#### Connectors

RF Connector Type	SMA Female
RF Connector Contact Material and Plating	Beryllium Copper, Gold
RF Connector Body Material and Plating	Passivated Stainless Steel

### Environmental Specifications

#### Temperature

Operating Range	-25 to +65 deg C
ESD Sensitivity	ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.



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

RoHS Compliant

### Plotted and Other Data

Notes:

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 Latching Switch DC to 22 GHz, SMA, 20 Watts, 28V Control, Indicators, TTL, Self Cut Off, Diodes PE71S6308](#)

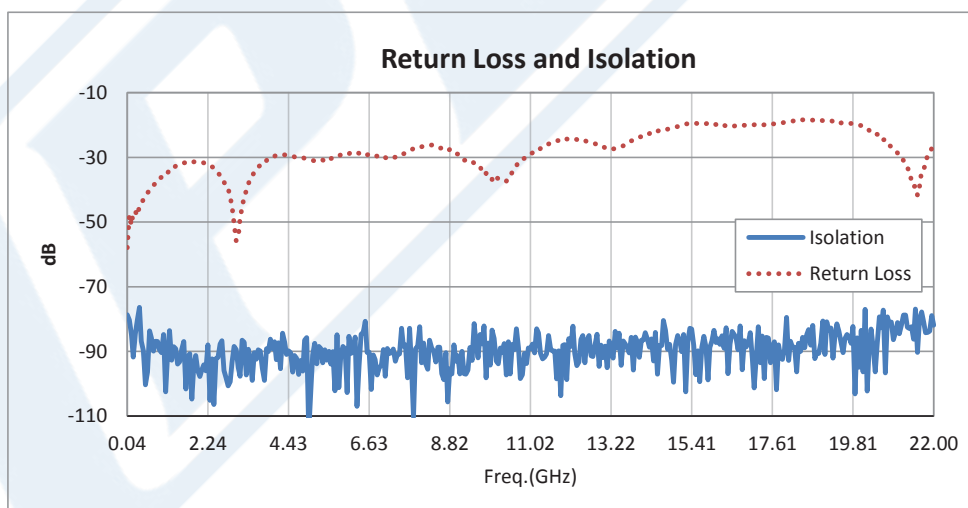
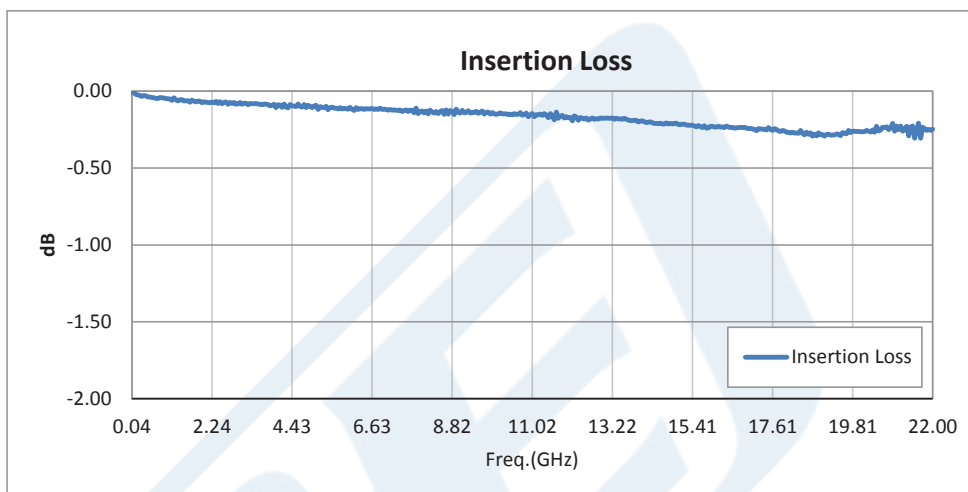


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### Typical Performance Data



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## Electromechanical Relay Switches Technical Data

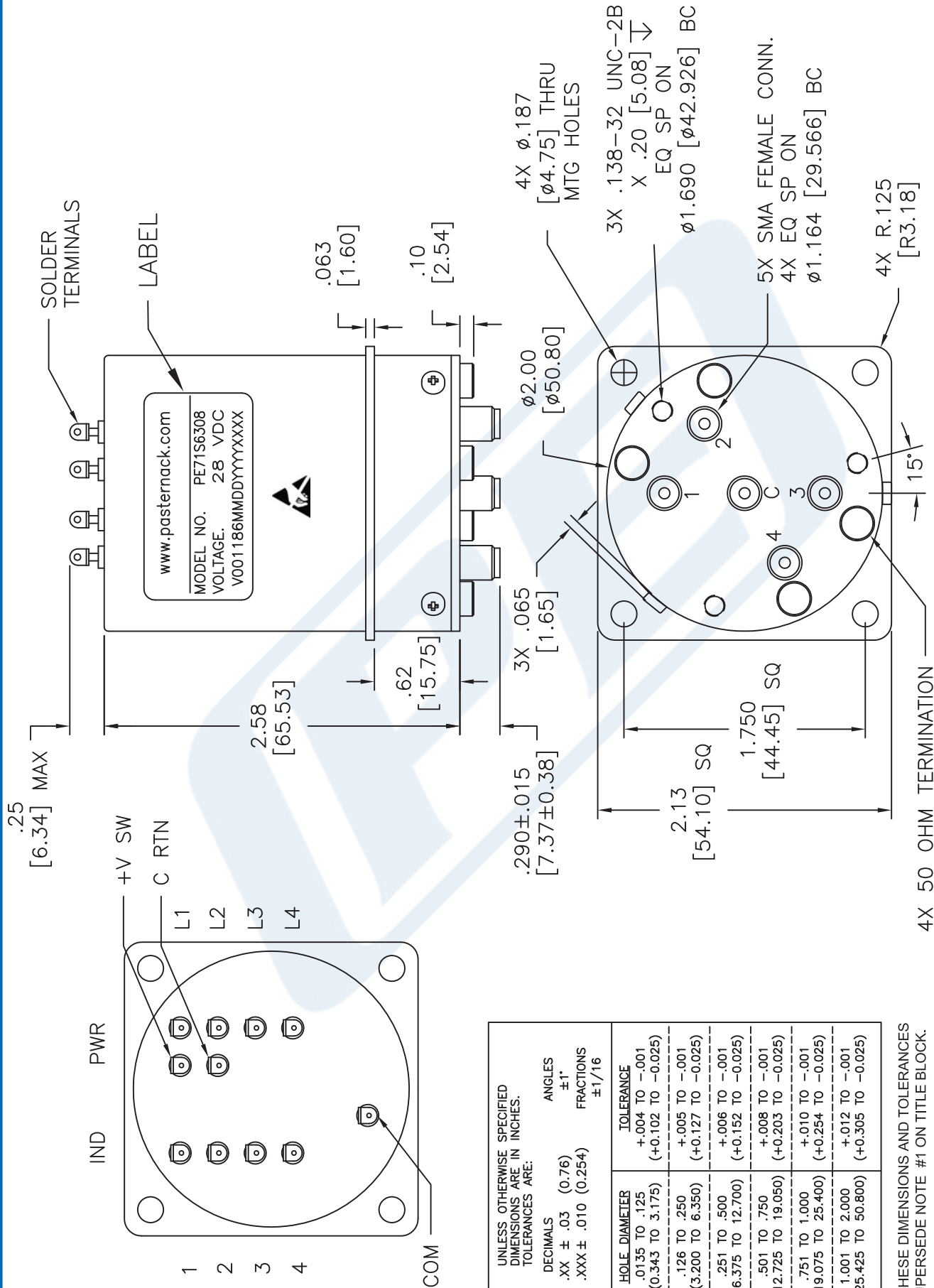
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

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

PE71S6308

**DWG TITLE**

**PE PASTERNAK®**  
THE ENGINEER'S RE SOURCE

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FSCM NO. 53919

**CAD FILE 090115**

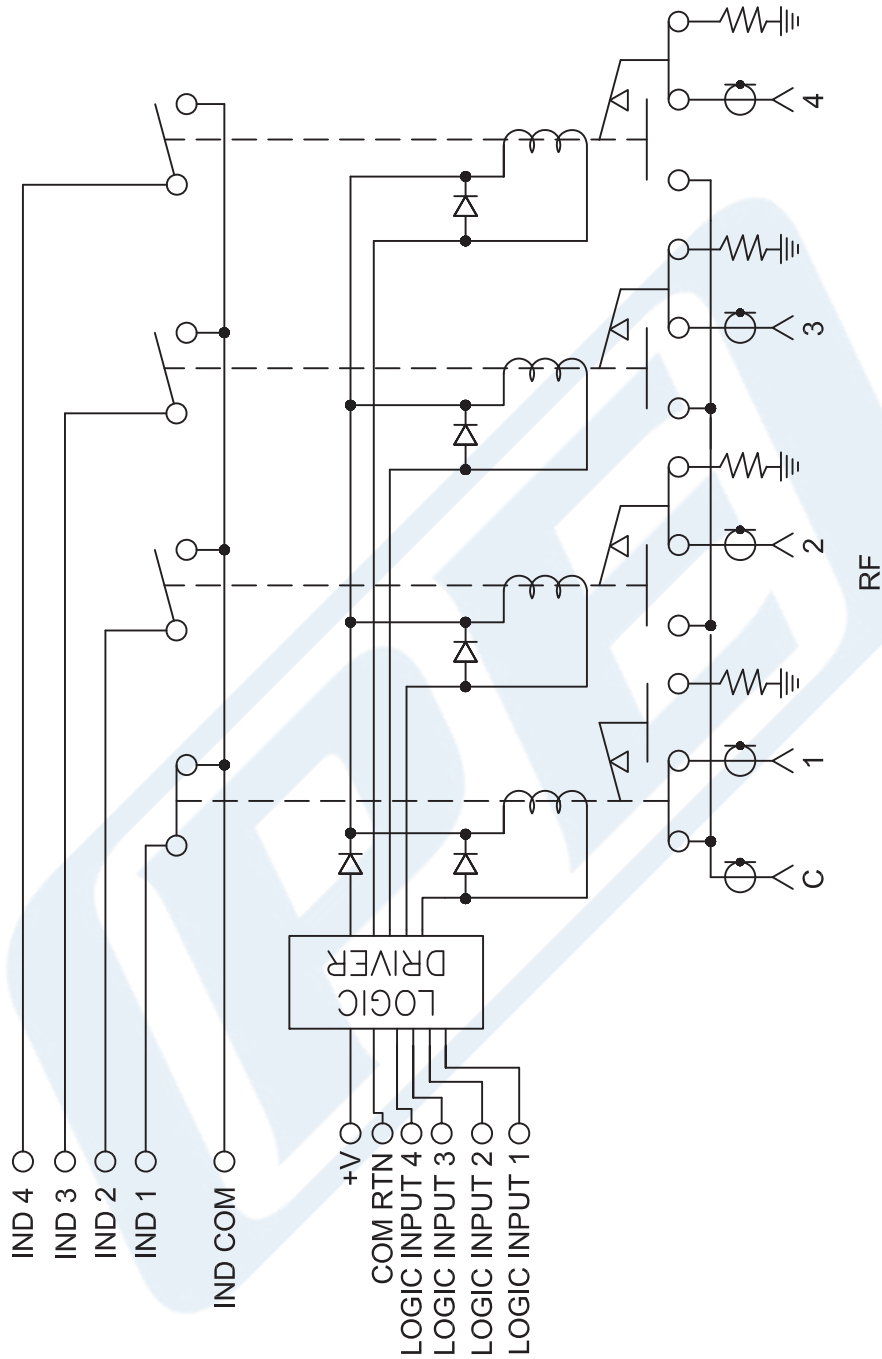
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PE71S6308 CAD Drawing

SP4T Electromechanical Relay Latching Switch DC to 22 GHz, SMA,  
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SCHEMATIC LATCHING SELF CUT-OFF SHOWN IN POSITION 1

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SCALE N/A

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