

SP6T Electromechanical Relay Normally Open Switch DC to 26.5 GHz, SMA, 40 Watts, 28V Control with TTL



Electromechanical Relay Switches Technical Data Sheet

PE71S6088

Features

- Single Pole Six Throw Relay Switch
- DC to 26.5 GHz Frequency Range
- 10M Cycle Min (25M Typ) Operating Life
- 40 Watt Avg Power Max

- -40 to +85 Deg C Operating Temperature
- Insertion Loss 0.6 dB Max
- VSWR 1.6:1 Max

Applications

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

Description

The PE71S6088 is a Single Pole Six Throw Electromechanical Relay Switch that operates from DC to 26.5 GHz and can handle up to 250 Watts of CW input power in a Break Before Make condition. The design features a Normally Open Actuator with TTL Logic and is rated for 10M Life Cycles (25M typical) for high reliability operation. Insertion loss is specified from 0.2 dB max and Isolation from 80 dB min, with +28 Vdc operating voltage. Performance is guaranteed over -40°C to +85°C and the switch assembly is RoHS and REACH compliant. The package interface uses solder terminals and SMA Female connectors.

Electrical Specifications

Switch Type
Actuator Type
Switching Sequence
Actuator Options
TTL Control

SP6T, Reflective Normally Open Break before Make TTL Logic on: 2.2 to 5.5 Volts off: 0 to 0.8 Volts

Description	Minimum Typical		Maximum	Units	
Frequency Range	DC		26.5	GHz	
Impedance		50		Ohms	
Operating Voltage	21	28	30	Volts	
Actuating Current @ 28 Volts		110		mA	
VSWR			1.6:1		
Insertion Loss			0.6	dB	
Isolation	55			dB	
Coil Resistance		250		Ohms	
Input Power (CW)			40	Watts	

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 Normally Open Switch DC to 26.5 GHz, SMA, 40 Watts, 28V Control with TTL PE71S6088

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 8	8 to 12.4	12.4 to 18	18 to 26.5	GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	
Insertion Loss, Max	0.2	0.3	0.4	0.5	0.6	dB
Isolation, Min	80	70	60	60	55	dB
Input Power, Max (CW)	250	150	120	100	40	Watts

Electrical Specification Notes:

Average Power and Actuating Current values at 25°C.

Mechanical Specifications

Size

 Length
 1.45 in [36.83 mm]

 Width/Diameter
 1.327 in [33.71 mm]

 Height
 1.327 in [33.71 mm]

 Weight
 0.24 lbs [108.86 g]

 Operating Life
 10,000,000 Cycles

 Switching Time
 10 ms Max

Connectors

RF Connector Type SMA Female Control Connector Solder Pins

Mechanical Specification Notes: Solder Pins: 250°C max/30sec.

Specified operating life is minimum. Typical operating life is 25M cycles.

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 Sine Vibration MIL-STD-202, Method 204D, Cond. D

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Random Vibration **ESD Sensitivity**

MIL-STD-202, Method 214A, Profile I, Cond. F ESD Sensitive Material. Transport material in approved ESD bags. Handle in approved ESD Workstation.



Environmental Specification Notes: Environmental specifications are guaranteed but not tested.

Compliance Certifications (visit www.Pasternack.com for current document) **RoHS Compliant REACH Compliant** 12/17/2014

Plotted and Other Data

Notes:

Values shown are typical at 25°C.

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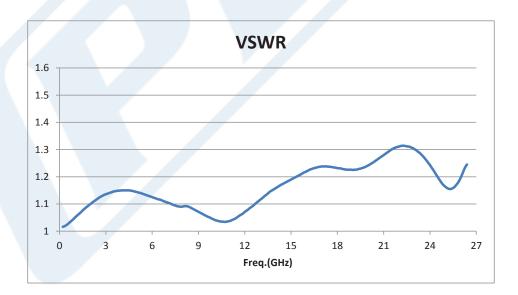


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Typical Performance Data





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URL: http://www.pasternack.com/sma-sp6t-electromechanical-relay-switch-26.5-ghz-normallyopen-pe71s6088-p.aspx

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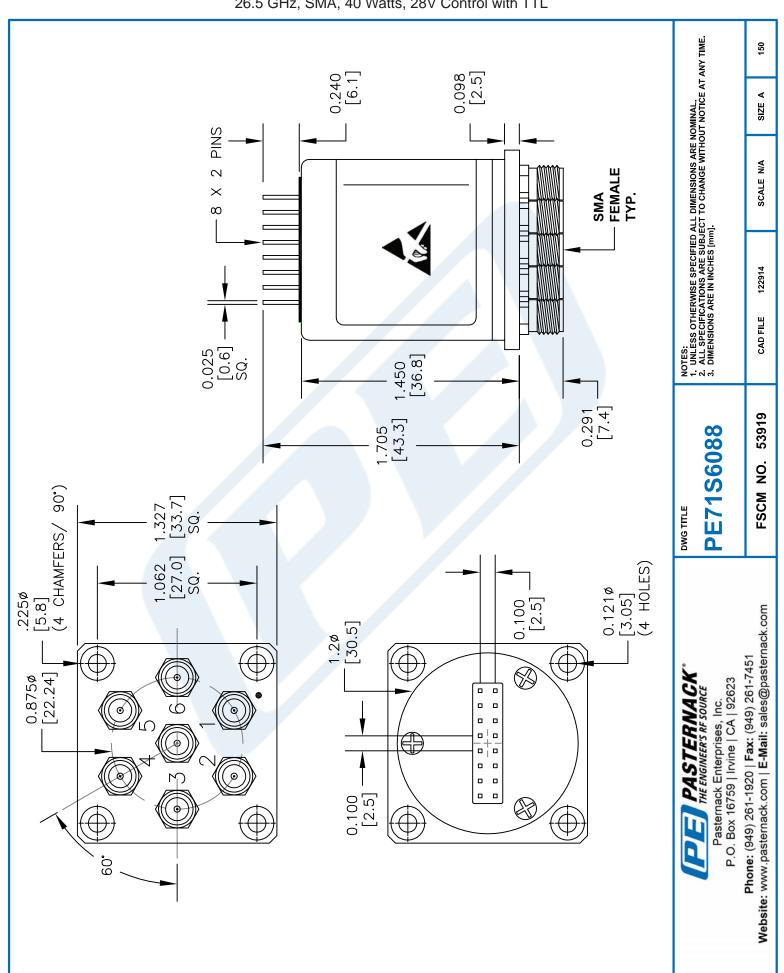




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PE71S6088 CAD Drawing

SP6T Electromechanical Relay Normally Open Switch DC to 26.5 GHz, SMA, 40 Watts, 28V Control with TTL



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