



Electromechanical Relay Switches Technical Data Sheet

PE71S6191

Features		
 Single Pole Four Throw Relay Swi DC to 10 GHz Frequency Range 1M Cycle Min Operating Life Normally Open Actuator 	Isolatio160 Water	on Loss 0.6 dB max on 60 dB min atts Avg Power Max ing Sequence Break Before Make
Applications		
 Test & Measurement 	 Communications System 	 Instrumentation

Description

The PE71S6191 is a Single Pole Four Throw Electromechanical Relay Switch that operates from DC to 10 GHz and has a rating of 160 Watts input power (CW) in a Break Before Make condition. The design features a Normally Open Actuator and is rated for 1M Life Cycles for high reliability operation. Insertion loss is specified from 0.25 dB max and Isolation from 80 dB min, with +28 Vdc operating voltage and performance is guaranteed over -25°C to +65°C. The package interface uses solder terminals and N Female connectors.

ectrical Specifications Switch Type Actuator Type Switching Sequence		SP4T, Reflective Normally Open Break Before Make			
Description	Minimum	Typical	Maximum	Units	
Frequency Range	DC		10	GHz	
Impedance		50		Ohms	
Operating Voltage		28		Volts	
Actuating Current @ 28 Volts		150		mA	
VSWR			1.6:1		
Insertion Loss			0.6	dB	
Isolation	60			dB	
Input Power (CW) (at 10 GHz)			160	Watts	

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 Normally Open Switch DC to 10 GHz, N, 160 Watts, 28V Control PE71S6191

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	F 3	F4	F5	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

Size Length Width/Diameter Height Weight Body Material and

Body Material and Plating Package Type

Operating Life Switching Time

Connectors

RF Connector Type RF Connector Contact Material and Plating RF Connector Body Material and Plating Control Connector

Environmental Specifications

Temperature Operating Range ESD Sensitivity



Environmental Specification Notes: Designed to meet MIL-DTL-3928

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

Plotted and Other Data

Notes:

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2.3 in [58.42 mm]

2.47 in [62.74 mm] 2.47 in [62.74 mm]

1.156 lbs [524.35 g]

Connectorized Module 1,000,000 Cycles

Aluminum

50 ms Max N Female Beryllium Copper, Gold Passivated Stainless Stee

Passivated Stainless Steel Solder Pin

-25 to +65 deg C ESD Sensitive Material. Transport material in Approved ESD bags. Handle in approved ESD Workstation.



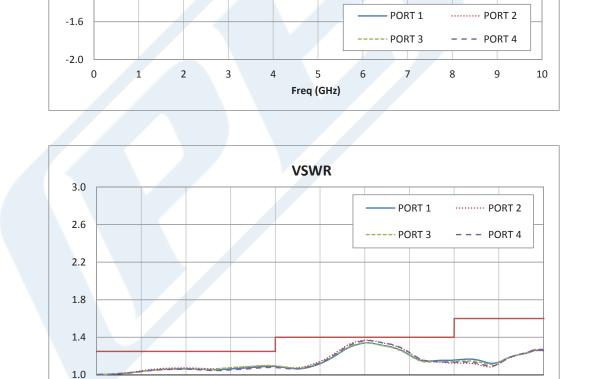
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Typical Performance Data

0.0

-0.4

-0.8 **9** -1.2



Insertion Loss

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Freq (GHz)

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7

8

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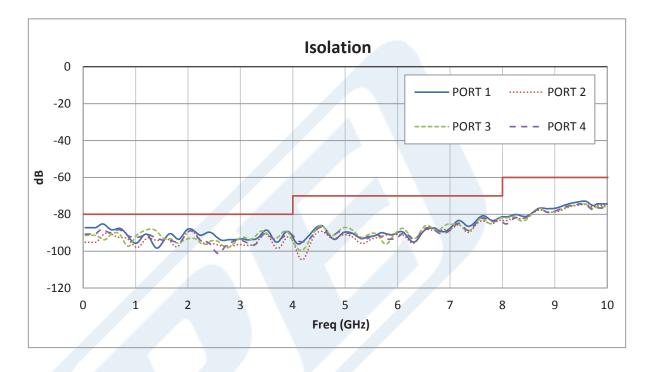






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SP4T Electromechanical Relay Normally Open Switch DC to 10 GHz, N, 160 Watts, 28V Control from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: http://www.pasternack.com/n-sp4t-electromechanical-relay-switch-10-ghz-normally-open-pe71s6191-p.aspx

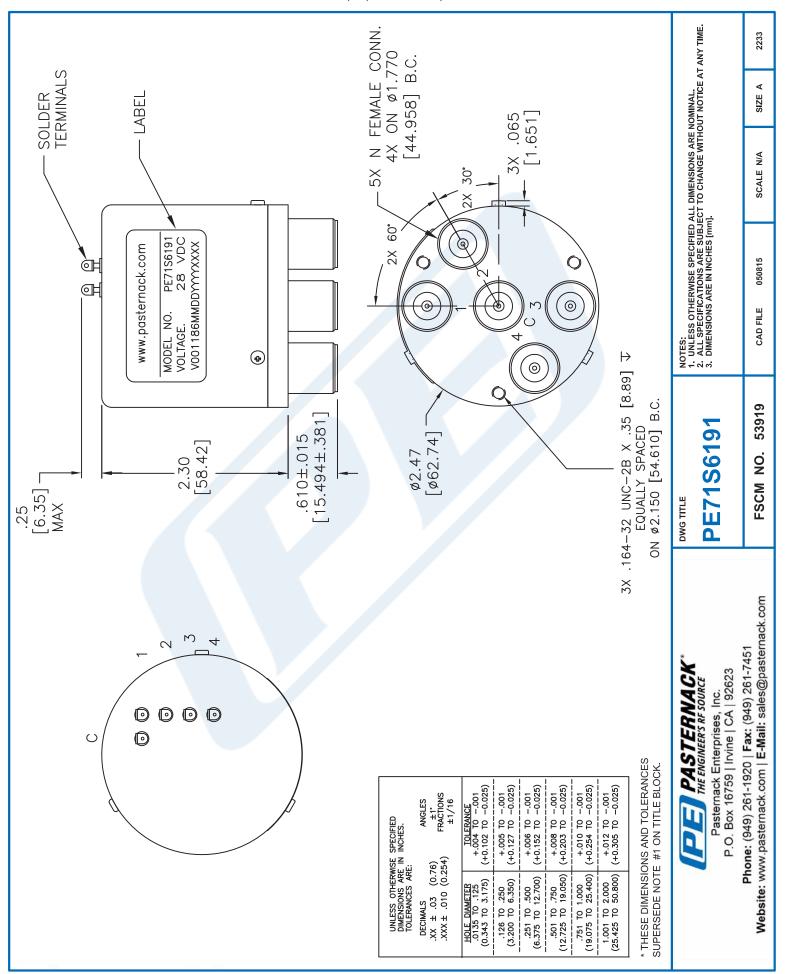
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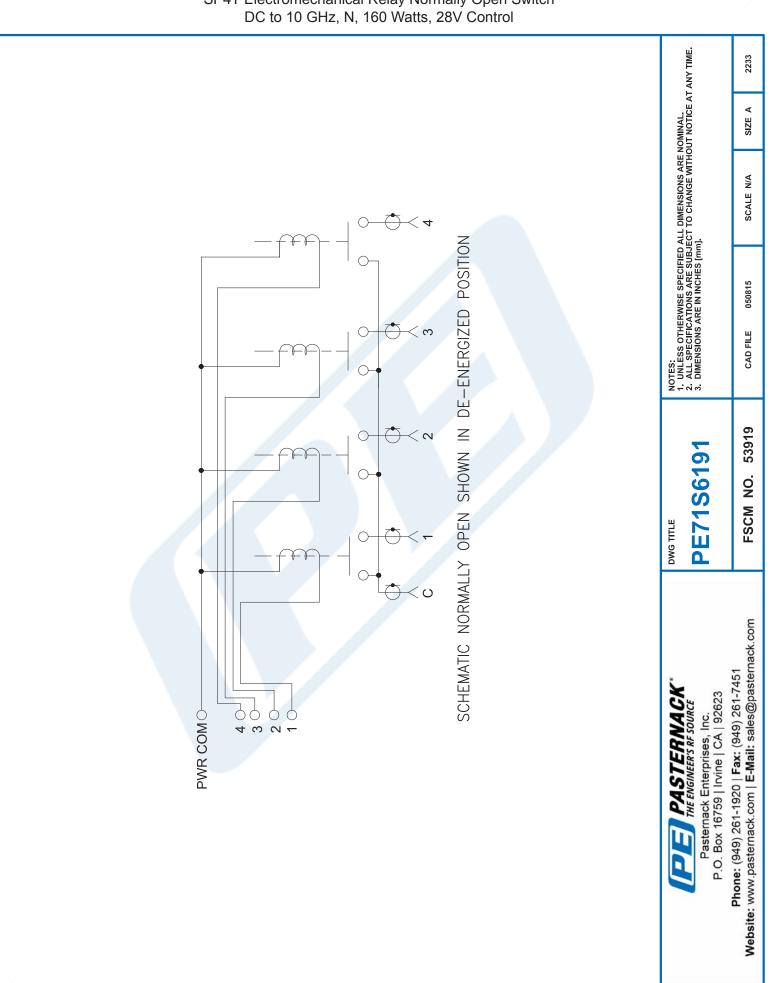
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PE71S6191 CAD Drawing

SP4T Electromechanical Relay Normally Open Switch DC to 10 GHz, N, 160 Watts, 28V Control



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PE71S6191 CAD Drawing

SP4T Electromechanical Relay Normally Open Switch