



Electromechanical Relay Switches Technical Data Sheet

PE71S6356

Features

- Single Pole Double Throw
- DC to 26.5 GHz Frequency Range
- · Isolation greater than 80 dB typical
- 2M Cycle Min Operating Life
- +12 Volt DC
- 90 Watt average Power
- Failsafe Actuator
- Internally Terminated

Applications

- High Performance Relay Switch
- Military Communications

- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.15 dB Max
- VSWR as low as 1.2:1 max
- SMA Female RF connectors
- 9 Pin D-Sub Connector for DC Control
- Hot Switching Capability Consult Factory
- · S-Parameter Data available upon request
- Communications Systems
- Test & Measurement

Description

The PE71S6356 is a Single Pole Double Throw (SPDT) electromechanical relay switch that operates across a wide frequency range of DC to 26.5 GHz and can handle up to 90 Watts of CW input power in a break before make condition. The design features a Failsafe actuator with 50 ohm terminations and is rated for 2M life cycles for high reliability operation. Impressive performance includes insertion loss less than 0.15 dB typical and isolation greater than 80 dB typical. This switch requires a +12Vdc control voltage and operates over a temperature range of -25°C to +70°C. The rugged and compact package assembly supports SMA Female connectors and a 9 Pin D-Sub Connector for DC Control. And for highly reliable operation, the model is guranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

Electrical Specifications

Switch Type	SPDT, Terminated
Actuator Type	Failsafe
Switching Sequence	Break before Make

Description	Minimum	Typical	Maximum	Units	
Frequency Range	DC		26.5	GHz	
Impedance		50		Ohms	
Termination Impedance		50		Ohms	
Operating Voltage	11	12	13	Volts	
Actuating Current @ 12 Volts		200		mA	
VSWR		1.2:1	1.7:1		
Insertion Loss		0.15	0.6	dB	
Isolation	50	80		dB	
Input Power (CW)			50	Watts	
Termination Input Power (CW)			5	Watts	
Switching Time			20	ms Max	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 26.5 GHz, up to 90W, 12V, SMA PE71S6356

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Description	F1	F2	F3	F4	F5	Units	
Frequency Range	DC to 6	6 to 12	12 to 18	18 to 26.5		GHz	
VSWR, Max	1.2:1	1.3:1	1.4:1	1.7:1			
Insertion Loss, Max	0.15	0.25	0.35	0.6		dB	
Isolation, Min	80	70	60	50		dB	
Input Power, Typ (CW)	90	75	60	50		Watts	
hanical Specificatio	ns						
Package Type				Connectorized			
Operating Life				2,000,000 Cycles			
Connectors RF Connector Type Control Connector				SMA Female 9 Pin D-Sub			
ironmental Specifica Temperature Operating Range Storage Range	ations			-25 to +70 deg C -55 to +100 deg (
hock			MIL-STD-202 Method 213, Cond. D 500G Non Op				
Vibration				ing MIL-STD-202 Method 214, Cond. D 10G RMS No Operating			
pliance Certification	ns (see produc	ct page for cu	irrent docun	nent)			
ted and Other Data Notes:							

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VSWR 3.00 2.80 2.60 2.40 2.20 2.00 1.80 1.60 1.40 1.20 1.00 23.9 0.0 GHz 2.7 5.3 8.0 10.6 13.3 15.9 18.6 21.2 26.5 dB Insertion Loss 0.00 -0.30 -0.60 -0.90 1.20 -1.50 1.80 -2.10 -2.40 -2.70

Typical Performance Data

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13.3

15.9

18.6

21.2

23.9

26.5

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3.00

0.0 GHz

2.7

5.3

8.0

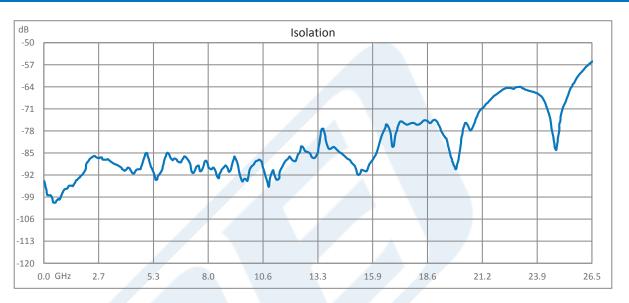
10.6





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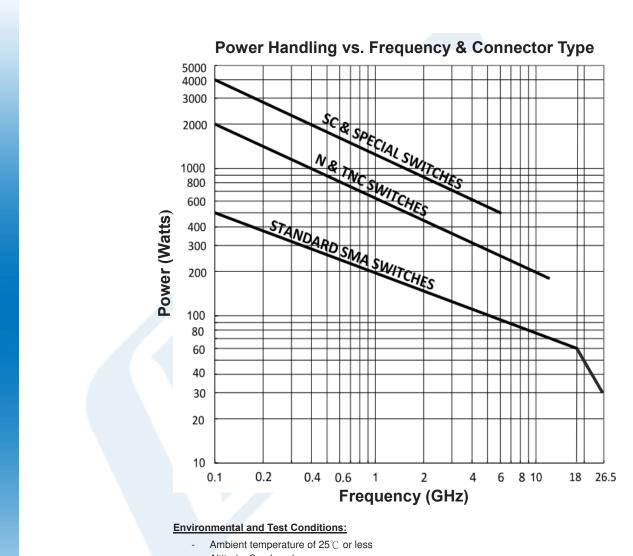
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- Altitude: Sea Level
- Load VSWR: 1.20:1 max.
- Cold Switching

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SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 26.5 GHz, up to 90W, 12V, SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

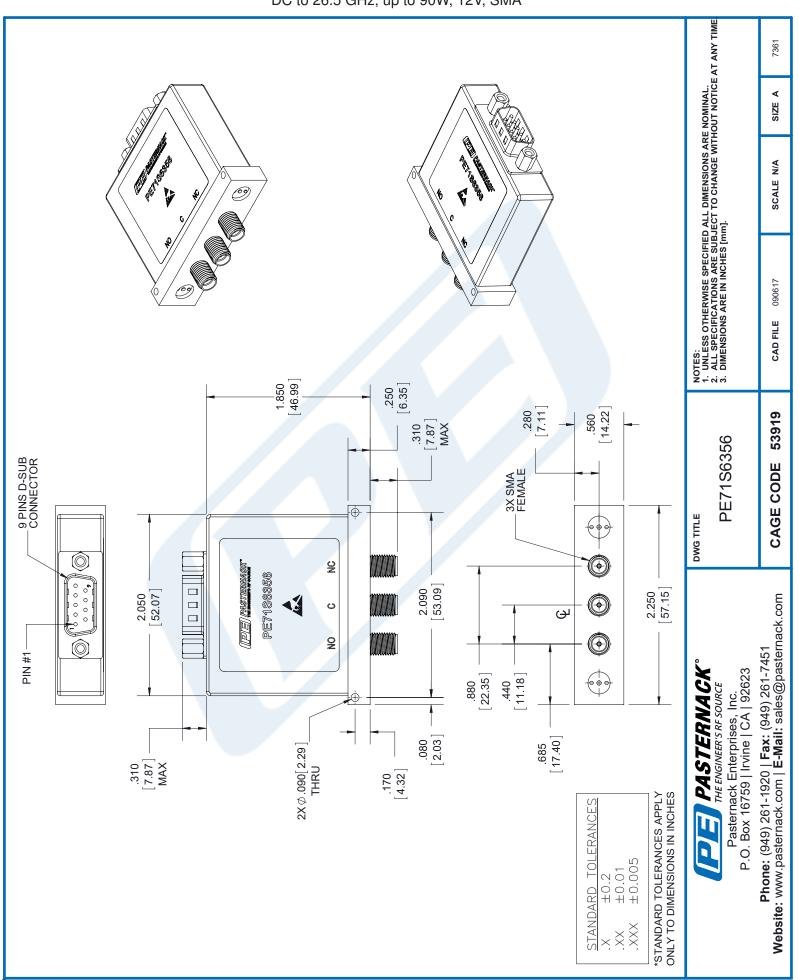
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URL: https://www.pasternack.com/spdt-electromechanical-relay-failsafe-switch-terminated-26.5-ghz-50w-12v-smape71s6356-p.aspx

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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SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 26.5 GHz, up to 90W, 12V, SMA



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PE71S6356 CAD Drawing

SPDT Electromechanical Relay Failsafe Switch, Terminated,

