



Electromechanical Relay Switches Technical Data Sheet

PE71S6357

Features

- Single Pole Double Throw
- DC to 26.5 GHz Frequency Range
- Isolation greater than 80 dB typical
- · 2M Cycle Min Operating Life
- +28 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 PE71S6357 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 +28 Vdc bias 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 TypeSPDT, TerActuator TypeFailsafeSwitching SequenceBreak bef	
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Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
Impedance		50		Ohms
Termination Impedance		50		Ohms
Operating Voltage	26	28	30	Volts
Actuating Current @ 28 Volts		90		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, 28V, SMA PE71S6357

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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 Specification	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 0	C		
Shock Vibration	MIL-STD-202 Method 213, Cond. D 5000 ing MIL-STD-202 Method 214, Cond. D 10G Operating						
npliance Certificatior	ns (see produc	ct page for cu					
tted and Other Data Notes:							

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VSWR 23.9 0.0 GHz 2.7 5.3 8.0 10.6 13.3 15.9 18.6 21.2 26.5 Insertion Loss -0.60

Typical Performance Data

3.00 2.80 2.60 2.40 2.20 2.00 1.80 1.60 1.40 1.20 1.00

dB

0.00 -0.30

-0.90 1.20 -1.50 1.80 -2.10 -2.40 -2.70 3.00

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13.3

15.9

18.6

21.2

23.9

26.5

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0.0 GHz

2.7

5.3

8.0

10.6

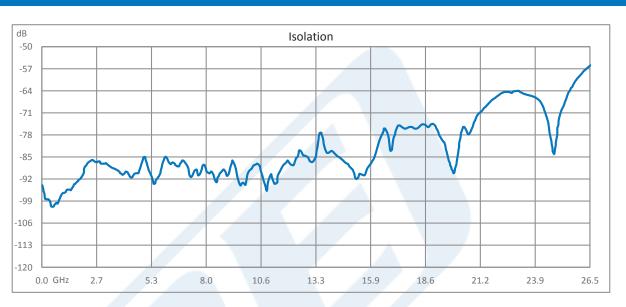


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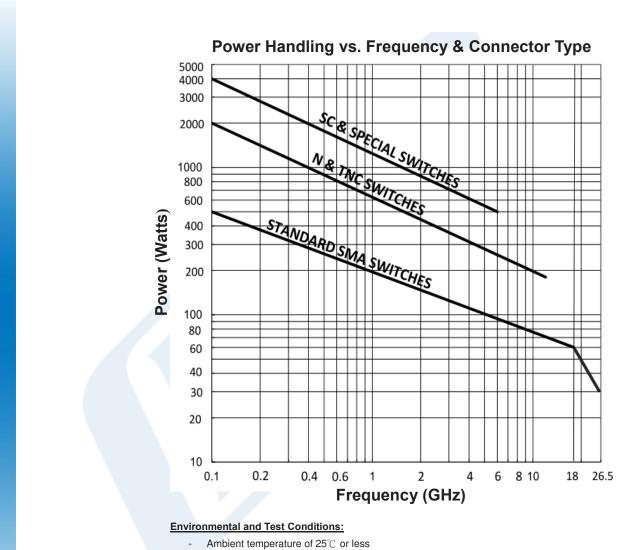
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- Altitude: Sea Level Load VSWR: 1.20:1 max.
- Cold Switching

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SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 26.5 GHz, up to 90W, 28V, 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.

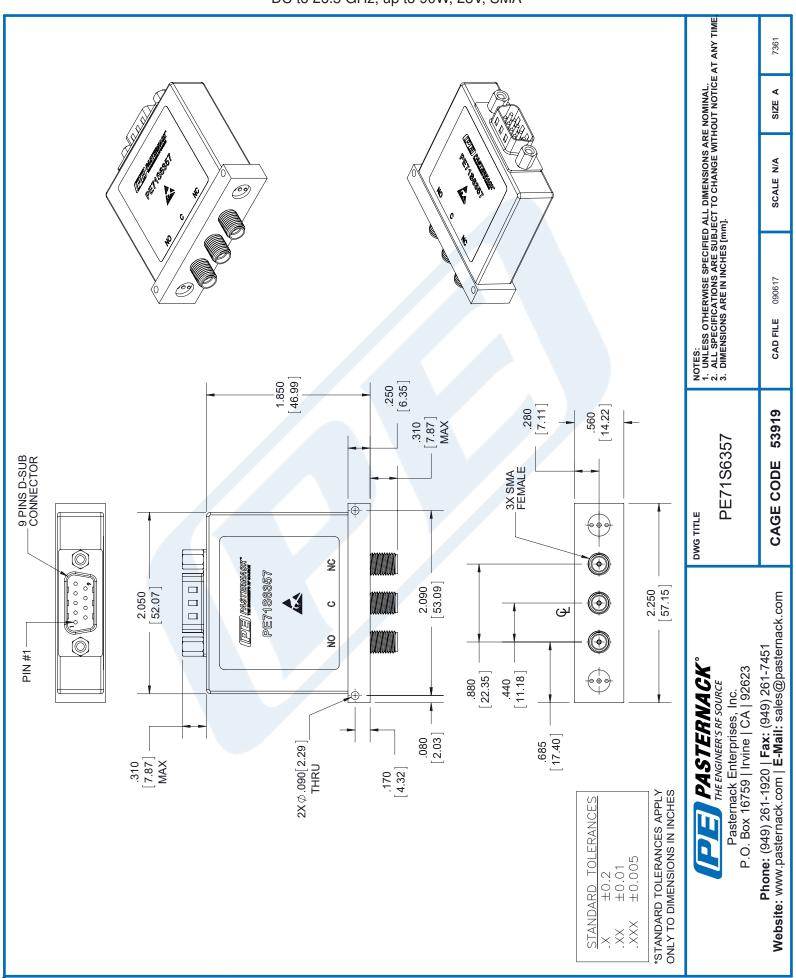
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URL: https://www.pasternack.com/spdt-electromechanical-relay-failsafe-switch-terminated-26.5-ghz-50w-28v-smape71s6357-p.aspx

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SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 26.5 GHz, up to 90W, 28V, SMA



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PE71S6357 CAD Drawing

SPDT Electromechanical Relay Failsafe Switch, Terminated,

