

SP8T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 90W, 12V, SMA



Electromechanical Relay Switches Technical Data Sheet

PE71S6384

Features

- Single Pole Eight Throw
- DC to 18 GHz Frequency Range
- Isolation greater than 80 dB typical
- 2M Cycle Min Operating Life
- +12 Volt DC
- 90 Watt average Power
- Normally Open Actuator

Applications

- High Performance Relay Switch
- Military Communications

- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.2 dB Max
- VSWR as low as 1.25:1 max
- SMA Female RF connectors
- 15 Pin D-Sub Connector for DC Control
- Hot Switching Capability Consult Factory
- S-Parameter Data available upon request
- · Communications Systems
- Test & Measurement

Description

The PE71S6384 is a Single Pole Eight Throw (SP8T) electromechanical relay switch that operates across a wide frequency range of DC to 18 GHz and can handle up to 90 Watts of CW input power in a break before make condition. The design features a Normally Open actuator 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. The Normally Open actuator has a +12 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 15 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

nimum DC	Typical	Maximum	Units
DC			
		18	GHz
	50		Ohms
11	12	13	Volts
	200		mA
	1.25:1	1.6:1	
	0.25	0.5	dB
75	80		dB
		60	Watts
		20	ms Max
_		200 1.25:1 0.25	200 1.25:1 1.6:1 0.25 0.5 75 80 60

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP8T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 90W, 12V, SMA PE71S6384

ISO 9001 : 2008 Registered

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Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12	12 to 18			GHz
VSWR, Max	1.25:1	1.35:1	1.6:1			
Insertion Loss, Max	0.25	0.35	0.5			dB
Isolation, Min	80	75	75			dB
Input Power, Typ (CW)	90	75	60			Watts
hanical Specification Size	ns					
Package Type				Connectorized		
Operating Life				2,000,000 Cycle	s	
Connectors RF Connector Type Control Connector				SMA Female 15 Pin D-Sub		
ironmental Specifica Temperature Operating Range Storage Range	ations			-25 to +70 deg C -55 to +100 deg		
Shock Vibration				MIL-STD-202 Method 213, Cond. D 500G Non Op ing MIL-STD-202 Method 214, Cond. D 10G RMS Nor Operating		
npliance Certification	ns (see produc	ct page for cu	rrent docur	nent)		
tted and Other Data Notes:						

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PASSA

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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 0 GHz 2 5 7 9 13 4 11 14 16 18 dB Insertion Loss 0.00 -0.30 -0.60 -0.90 1.20 -1.50 1.80 -2.10 -2.40 -2.70 3.00 0.00GHz 1.80 3.60 5.40 7.20 9.00 10.80 12.60 14.40 16.20 18.00

Typical Performance Data

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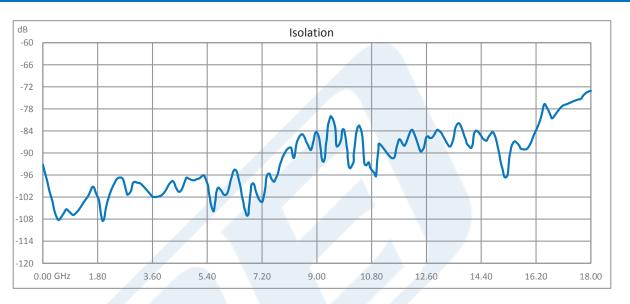




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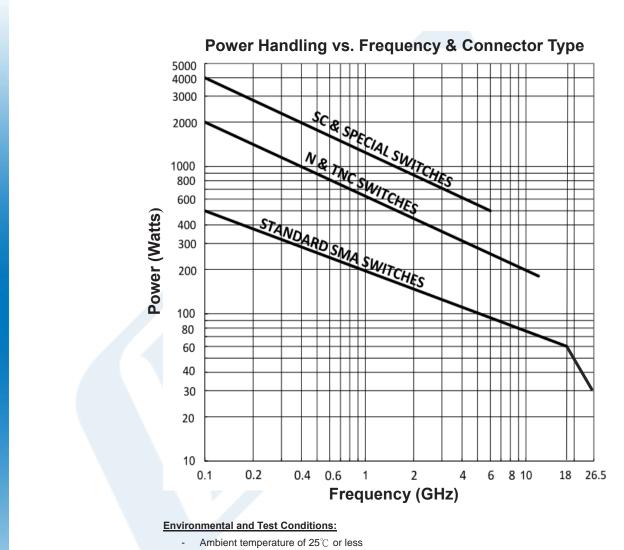




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- Altitude: Sea Level
- Load VSWR: 1.20:1 max.
- Cold Switching

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P/ Solar Art

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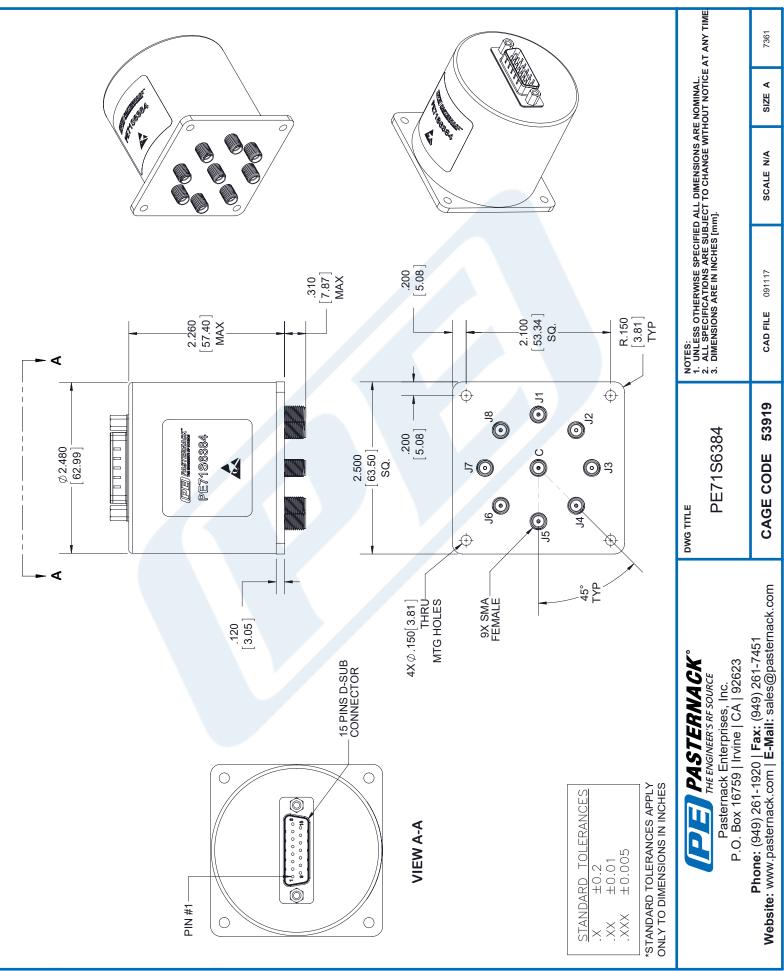
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PE71S6384 CAD Drawing

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PE71S6384 CAD Drawing SP8T Electromechanical Relay Normally Open Switch,

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