



Electromechanical Relay Switches Technical Data Sheet

PE71S6365

Features

- Single Pole Four Throw
- DC to 18 GHz Frequency Range
- · Isolation greater than 80 dB typical
- 5M Cycle Min Operating Life
- +28 Volt DC
- 90 Watt average Power
- Latching 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
- 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 PE71S6365 is a Single Pole Four Throw (SP4T) 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 Latching actuator and is rated for 5M 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 Latching actuator has 50 Ohm Terminations and 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 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

Actuator Type	Latching
Switching Sequence	Break before Make
Switch Type	SP4T, Terminated

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Termination Impedance		50		Ohms
Operating Voltage	26	28	30	Volts
Actuating Current @ 28 Volts		90		mA
VSWR		1.2:1	1.4:1	
Insertion Loss		0.15	0.4	dB
Isolation	80	80		dB
Input Power (CW)			60	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: SP4T Electromechanical Relay Latching Switch, Terminated, DC to 18 GHz, up to 90W, 28V, SMA PE71S6365

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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	1.2:1	1.3:1	1.4:1				
Insertion Loss, Max	0.15	0.25	0.4			dB	
Isolation, Min	80	80	80			dB	
Input Power, Typ (CW)	90	75	60			Watts	
chanical Specificatio Size	าร						
Package Type				Connectorized			
Operating Life				5,000,000 Cycle	es		
Connectors RF Connector Type Control Connector				SMA Female 15 Pin D-Sub			
vironmental Specifica Temperature Operating Range Storage Range	tions			-25 to +70 deg (-55 to +100 deg			
Shock	MIL-STD-202 Method 213, Cond. D 500G Non O						
Vibration	n i				ing MIL-STD-202 Method 214, Cond. D 10G RMS Non Operating		
mpliance Certificatior	is (see produc	ct page for cu	rrent docur	ment)			
tted and Other Data Notes:							

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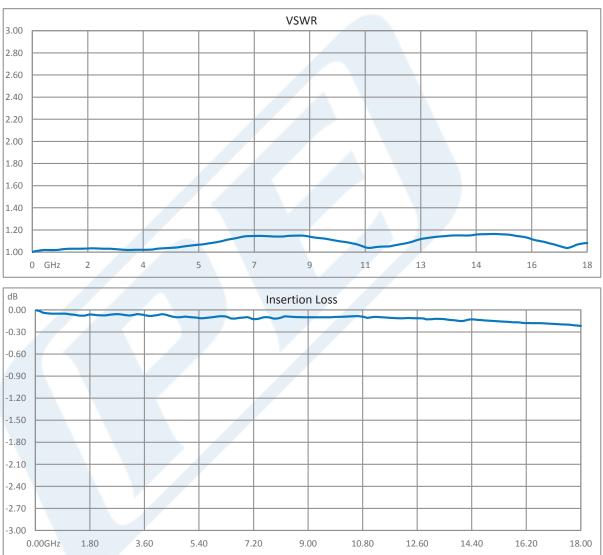
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Typical Performance Data

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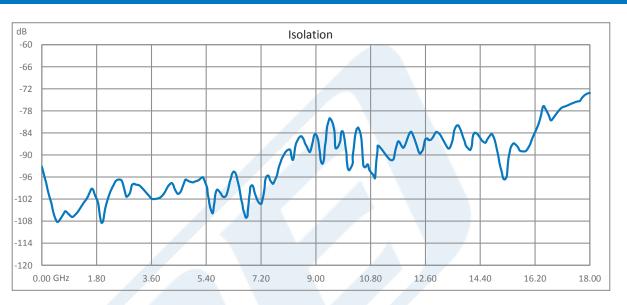
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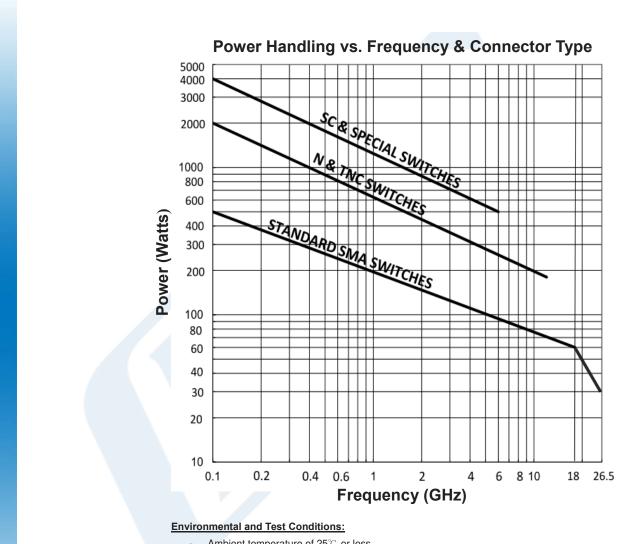
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- Ambient temperature of 25 $^\circ\!\mathrm{C}$ or less
- Altitude: Sea Level
- Load VSWR: 1.20:1 max.
- Cold Switching

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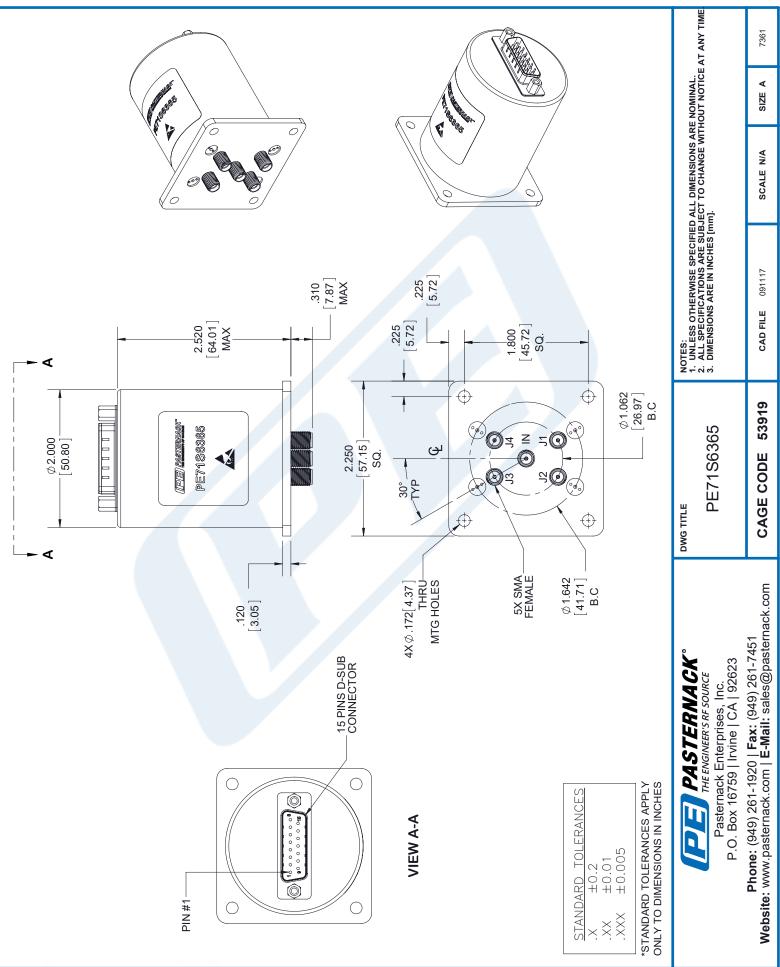
URL: https://www.pasternack.com/sp4t-electromechanical-relay-latching-switch-terminated-18-ghz-60w-28v-smape71s6365-p.aspx

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SP4T Electromechanical Relay Latching Switch, Terminated,

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PE71S6365 CAD Drawing SP4T Electromechanical Relay Latching Switch, Terminated,

DC to 18 GHz, up to 90W, 28V, SMA

