



Electromechanical Relay Switches Technical Data Sheet

PE71S6406

Features

- Single Pole Double Throw
- DC to 18 GHz Frequency Range
- Isolation greater than 85 dB typical
- 5M Cycle Min Operating Life
- +24 Volt DC
- 90 Watt average Power
- Latching Actuator
- 1 Watt Indicators

Applications

- High Performance Relay Switch
- Military Communications

- Internally Terminated
- -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
- Solder Pins for DC Control
- Hot Switching Capability Consult Factory
- · S-Parameter Data available upon request
- Communications Systems
- Test & Measurement

Description

The PE71S6406 is a Single Pole Double Throw (SPDT) 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 85 dB typical. The Latching actuator includes Indicators and a +24 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 Solder Pins 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	Latching
Switching Sequence	Break before Make
Actuator Options	Indicators
Indicator Rating	1 Watts / 32 Volts / 125 mA

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Termination Impedance		50		Ohms
Operating Voltage	22	24	26	Volts
Actuating Current @ 24 Volts		110		mA
VSWR		1.2:1	1.4:1	
Insertion Loss		0.15	0.35	dB
Isolation	65	85		dB
Input Power (CW)			60	Watts
Termination Input Power (CW)			5	Watts

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 Latching Switch, Terminated, DC to 18 GHz, up to 90W, 24V, Indicators, SMA PE71S6406

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451 Sales@Pasternack.com • Techsupport@Pasternack.com







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Switching Time					20	ms Max
					20	TTS Wax
Performance by Freque	ency					
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	0.35			dB
Isolation, Min	85	70	65			dB
Input Power, Typ (CW)	90	75	60			Watts
echanical Specification Size	ns					
Package Type		Connectorized				
Operating Life		5,000,000 Cycles				
Connectors RF Connector Type Control Connector				SMA Female Solder Pin		
Temperature Operating Range Storage Range	itions			-25 to +70 deg C -55 to +100 deg (
Shock Vibration	MIL-STD-202 Method 213, Cond. D 500G Non Ope ing MIL-STD-202 Method 214, Cond. D 10G RMS Non Operating					
mpliance Certification	1s (see produc	ct page for cu	rrent docur			
otted and Other Data Notes:						

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ISO 9001 : 2008 Registered

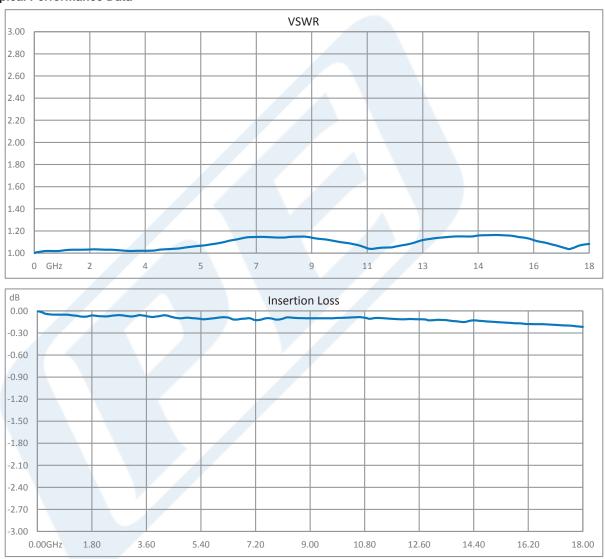
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Typical Performance Data

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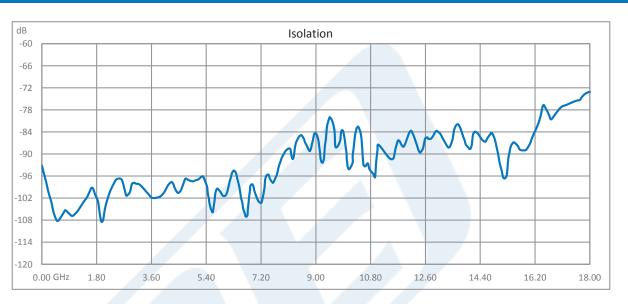
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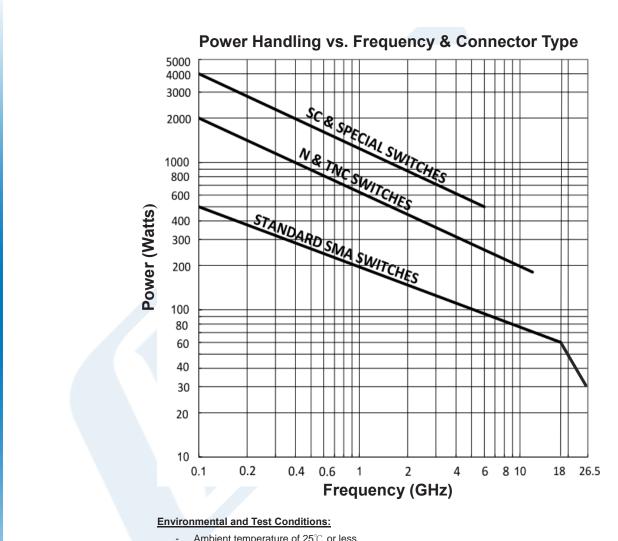
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- Ambient temperature of 25°C or less
- Altitude: Sea Level
- Load VSWR: 1.20:1 max.
- Cold Switching

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SPDT Electromechanical Relay Latching Switch, Terminated, DC to 18 GHz, up to 90W, 24V, Indicators, 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-latching-switch-terminated-18-ghz-60w-24v-indicators-smape71s6406-p.aspx

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PE71S6406 CAD Drawing

SPDT Electromechanical Relay Latching Switch, Terminated, DC to 18 GHz, up to 90W, 24V, Indicators, SMA

