



Electromechanical Relay Switches Technical Data Sheet

PE71S6409

Features

- Single Pole Six Throw
- DC to 18 GHz Frequency Range
- 2M Cycle Min Operating Life
- +28 Volt DC
- 60 Watt Avg Power
- Normally Open Actuator

Applications

High Performance Relay SwitchMilitary Communications

- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.15 dB Max
- VSWR 1.4:1 Max
- SMA Female RF connectors
- Solder Pin DC control
- Communications Systems
- Test & Measurement

Description

The PE71S6409 is a Single Pole Six Throw (SP6T) electromechanical relay switch that operates across a wide frequency range of DC to 18 GHz and can handle up to 60 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. Insertion loss is specified from 0.4 dB maximum and Isolation from 80 dB minimum. The Normally Open actuator has 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 Solder Pins for command control capability. 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 Actuator Type Switching Sequence		SP6T Normally Op Break before		
Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
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
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: SP6T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 90W, 28V, SMA PE71S6409

ISO 9001 : 2008 Registered

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



Electromechanical Relay Switches Technical Data

PE71S6409

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 Specificatior Size	าร					
Package Type			Co	nnectorized		
Operating Life			2,0	000,000 Cycle	s	
Connectors RF Connector Type Control Connector				IA Female Ider Pin		
vironmental Specifica Temperature Operating Range Storage Range	tions			5 to +70 deg (5 to +100 deg		
mpliance Certification	IS (see produc	ct page for cu	rrent documer	t)		
otted and Other Data Notes:						

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP6T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 90W, 28V, SMA PE71S6409

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



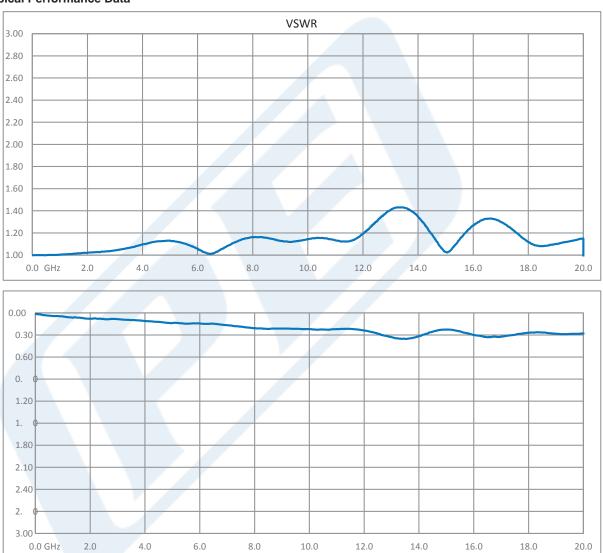


P. Contraction of the second sec

PE71S6409

SP6T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 90W, 28V, SMA

Electromechanical Relay Switches Technical Data



Typical Performance Data

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP6T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 90W, 28V, SMA PE71S6409

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

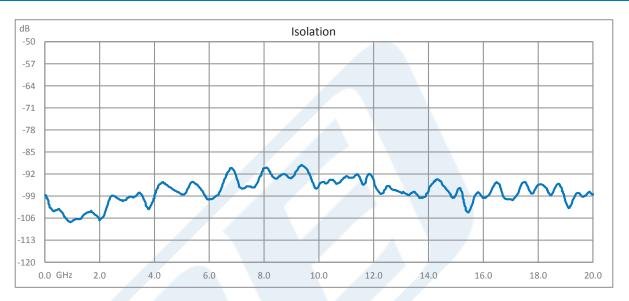
3





Electromechanical Relay Switches Technical Data

PE71S6409



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP6T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 90W, 28V, SMA PE71S6409

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

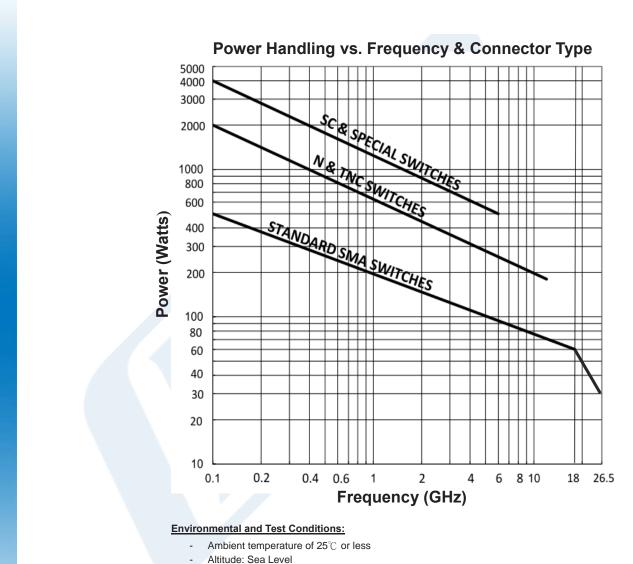
ISO 9001 : 2008 Registered





Electromechanical Relay Switches Technical Data

PE71S6409



- Load VSWR: 1.20:1 max.
- C oldS witching
- Colds witching

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP6T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 90W, 28V, SMA PE71S6409

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

ISO 9001 : 2008 Registered







Electromechanical Relay Switches Technical Data

PE71S6409

SP6T Electromechanical Relay Normally Open Switch, DC to 18 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP6T Electromechanical Relay Normally Open Switch, DC to 18 GHz, up to 90W, 28V, SMA PE71S6409

URL: https://www.pasternack.com/sp6t-electromechanical-relay-normally-open-switch-18-ghz-60w-28v-sma-pe71s6409-p. aspx

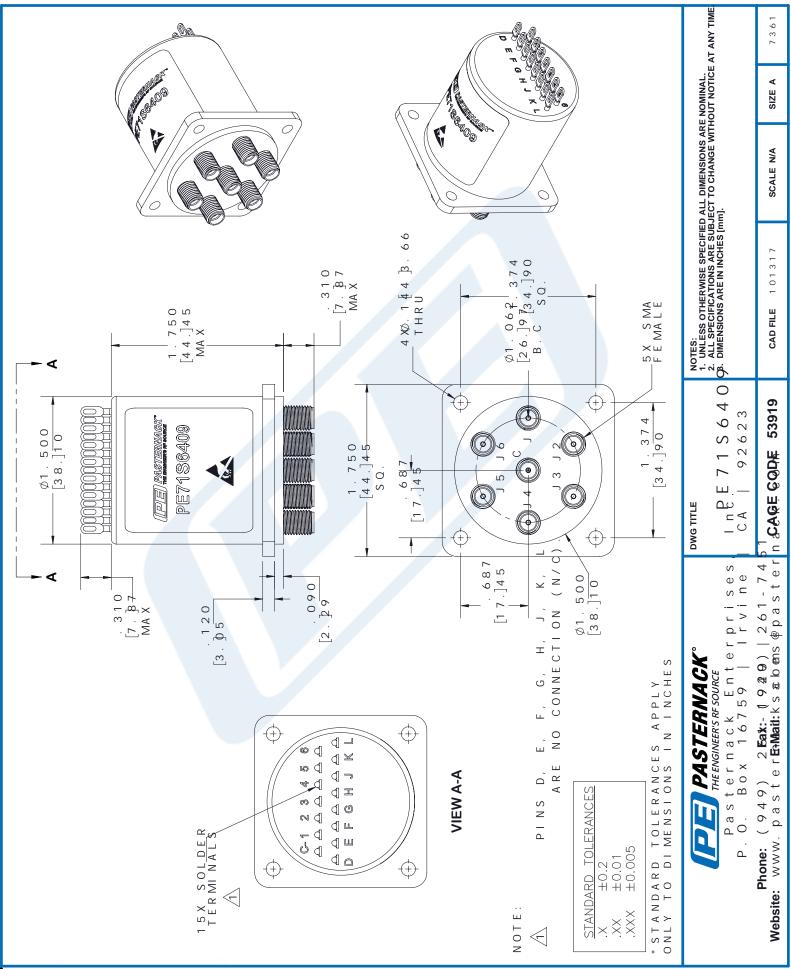
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.



PE71S6409 CAD Drawing

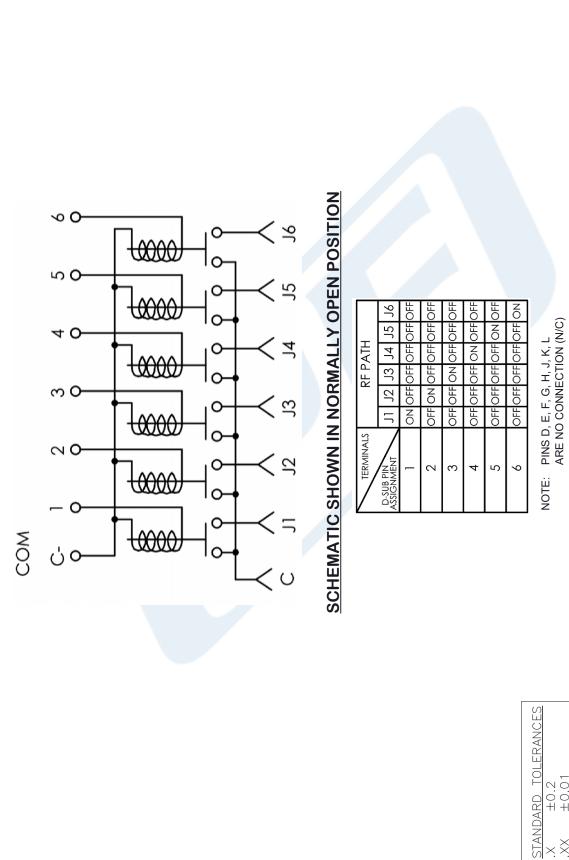
SP6T Electromechanical Relay Normally Open Switch,

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



7

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



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
DIMENSIONS ARE IN INCHES [mm].

NOTES:

DWG TITLE

PASTERNACK

Π

THE ENGINEER'S RF SOURCE

PE71S6409

7361

SIZE A

SCALE N/A

090817

CAD FILE

53919

CAGE CODE

	×	±0.2
	××.	土0.01
	×××.	土0.005
έ	TANDAR	*STANDARD TOLERANCES APPLY
б	ILY TO I	ONLY TO DIMENSIONS IN INCHES

Phone: (949) 261-1920 | Fax: (949) 261-7451 Website: www.pasternack.com | E-Mail: sales@pasternack.com

P.O. Box 16759 | Irvine | CA | 92623

Pasternack Enterprises, Inc.