



Electromechanical Relay Switches Technical Data Sheet

PE71S6387

Features

- Tranfer (DPDT)
- DC to 12 GHz Frequency Range
- Isolation greater than 80 dB typical
- 5M Cycle Min Operating Life
- +12 Volt DC
- · 430 Watt average Power
- · Latching Actuator

- -25 to +70°C Operating Temperature
- Insertion Loss as low as 0.2 dB Max
- VSWR as low as 1.2:1 max
- N Female RF connectors
- 9 Pin D-Sub Connector for DC Control
- · Hot Switching Capability Consult Factory
- · S-Parameter Data available upon request

Applications

- High Performance Relay Switch
- · Military Communications
- · Communications Systems
- Test & Measurement

Description

The PE71S6387 is a Transfer (DPDT) electromechanical relay switch that operates across a wide frequency range of DC to 12 GHz and can handle up to 430 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. Insertion loss is specified from 0.7 dB maximum and Isolation from 60 dB minimum. The Latching 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 N 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 Type
Actuator Type
Switching Sequence

Transfer Latching

Break before Make

Description	Minimum	Typical	Maximum	Units	
Frequency Range	DC		12	GHz	
Impedance		50		Ohms	
Operating Voltage	11	12	13	Volts	
Actuating Current @ 12 Volts		200		mA	
VSWR		1.2:1	1.7:1		
Insertion Loss		0.2	0.7	dB	
Isolation	60	80		dB	
Input Power (CW)			200	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: Transfer Electromechanical Relay Latching Switch, DC to 12 GHz, up to 430W, 12V, N PE71S6387

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ISO 9001: 2008 Registered





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Performance by Frequency

F1	F2	F3	F4	F5	Units
DC to 2	2 to 4	4 to 8	8 to 12		GHz
1.2:1	1.4:1	1.5:1	1.7:1		
0.2	0.4	0.5	0.7		dB
80	80	70	60		dB
430	300	230	200		Watts
	DC to 2 1.2:1 0.2 80	DC to 2 2 to 4 1.2:1 1.4:1 0.2 0.4 80 80	DC to 2 2 to 4 4 to 8 1.2:1 1.4:1 1.5:1 0.2 0.4 0.5 80 80 70	DC to 2 2 to 4 4 to 8 8 to 12 1.2:1 1.4:1 1.5:1 1.7:1 0.2 0.4 0.5 0.7 80 80 70 60	DC to 2 2 to 4 4 to 8 8 to 12 1.2:1 1.4:1 1.5:1 1.7:1 0.2 0.4 0.5 0.7 80 80 70 60

Mechanical Specifications

Package Type Connectorized 5,000,000 Cycles Operating Life

Connectors

RF Connector Type N Female Control Connector 9 Pin D-Sub

Environmental Specifications

Temperature

Operating Range -25 to +70 deg C Storage Range -55 to +100 deg C

Shock

MIL-STD-202 Method 213, Cond. D 500G Non Operat-MIL-STD-202 Method 214, Cond. D 10G RMS Non

Vibration

Operating

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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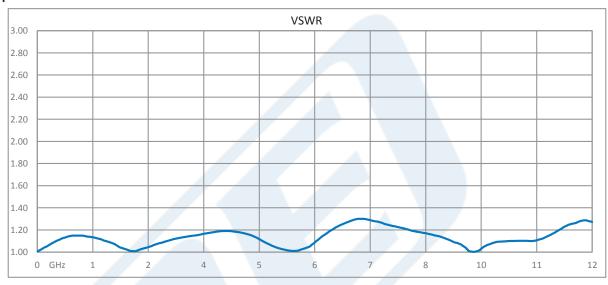


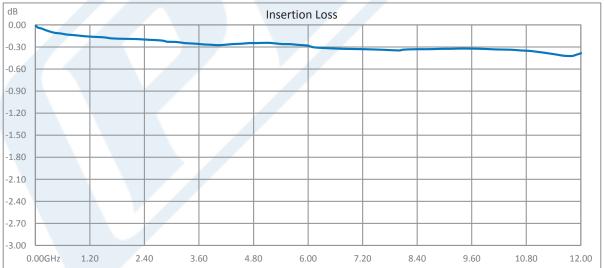


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Typical Performance Data





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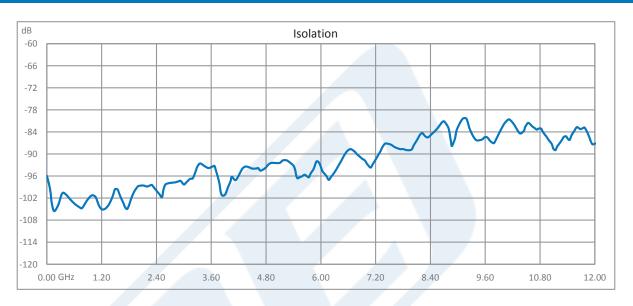






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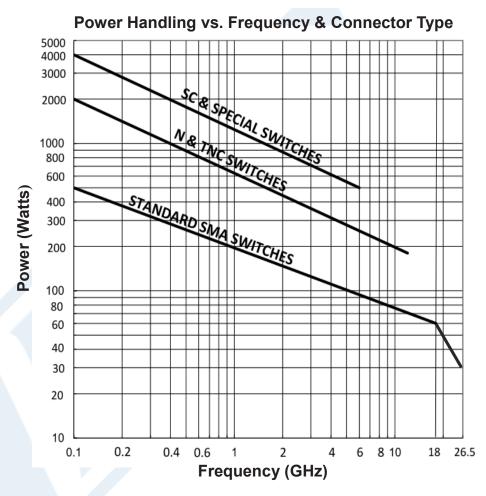






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Environmental and Test Conditions:

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

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Transfer Electromechanical Relay Latching Switch, DC to 12 GHz, up to 430W, 12V, N 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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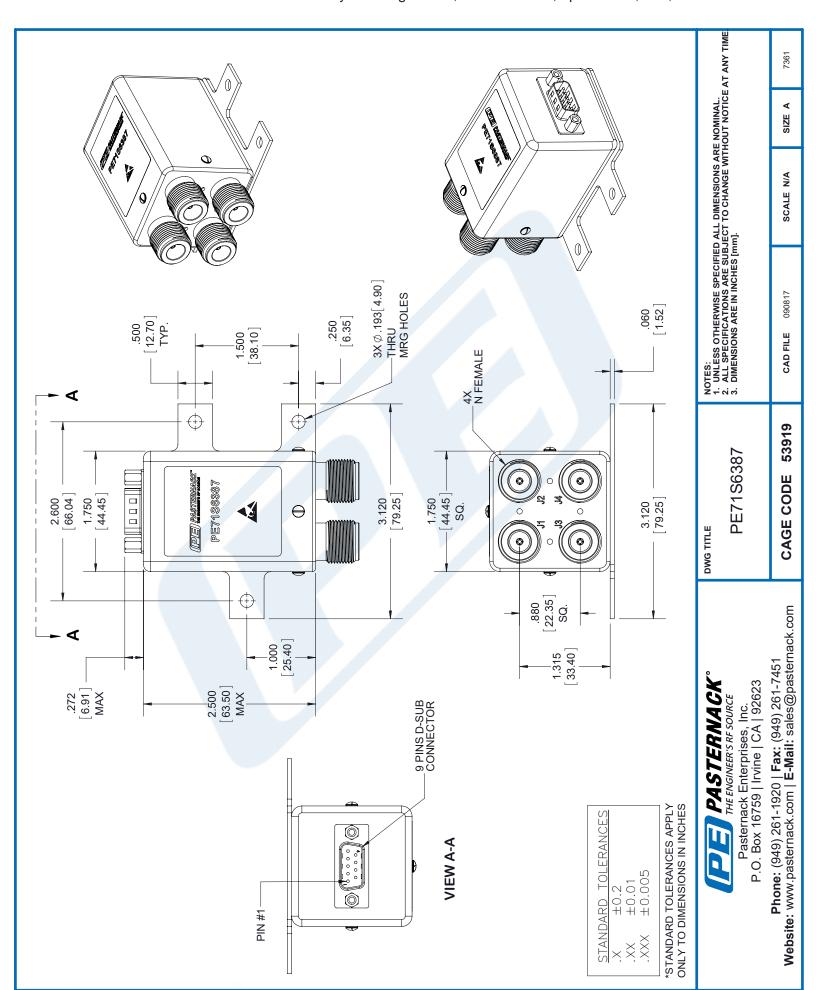
URL: https://www.pasternack.com/transfer-electromechanical-relay-latching-switch-12-ghz-200w-12v-n-pe71s6387-p.aspx

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.



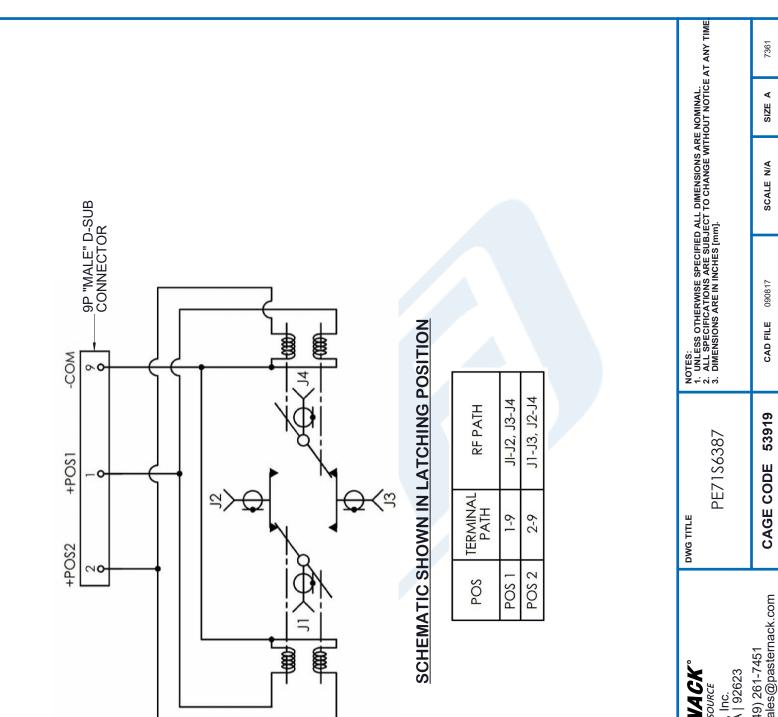
PE71S6387 CAD Drawing

Transfer Electromechanical Relay Latching Switch, DC to 12 GHz, up to 430W, 12V, N



PE71S6387 CAD Drawing

Transfer Electromechanical Relay Latching Switch, DC to 12 GHz, up to 430W, 12V, N



PE) PASTERNACK

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

±0.005 ±0.2 ±0.01

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STANDARD TOLERANCES

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