



# **Electromechanical Relay Switches Technical Data Sheet**

PE71S6385

## **Features**

- Tranfer (DPDT)
- DC to 12 GHz Frequency Range
- Isolation greater than 80 dB typical
- 2M Cycle Min Operating Life
- +28 Volt DC
- 430 Watt average Power
- · Failsafe 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 PE71S6385 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 Failsafe actuator and is rated for 2M life cycles for high reliability operation. Insertion loss is specified from 0.7 dB maximum and Isolation from 60 dB minimum. The Failsafe 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 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 Failsafe

Break before Make

Minimum	Typical	Maximum	Units
DC		12	GHz
	50		Ohms
26	28	30	Volts
	90		mA
	1.2:1	1.7:1	
	0.2	0.7	dB
60	80		dB
		200	Watts
		20	ms Max
	DC 26	DC 50 28 90 1.2:1 0.2	DC 12  50 26 28 30 90 1.2:1 1.7:1 0.2 0.7 60 80 200

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 Failsafe Switch, DC to 12 GHz, up to 430W, 28V, N PE71S6385

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# **Electromechanical Relay Switches Technical Data**

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#### **Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2	2 to 4	4 to 8	8 to 12		GHz
VSWR, Max	1.2:1	1.4:1	1.5:1	1.7:1		
Insertion Loss, Max	0.2	0.4	0.5	0.7		dB
Isolation, Min	80	80	70	60		dB
Input Power, Typ (CW)	430	300	230	200		Watts

### **Mechanical Specifications**

Size

Package Type Connectorized

Operating Life 2,000,000 Cycles

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

Vibration

ing MIL-STD-202 Method 214, Cond. D 10G RMS Non Operating

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

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

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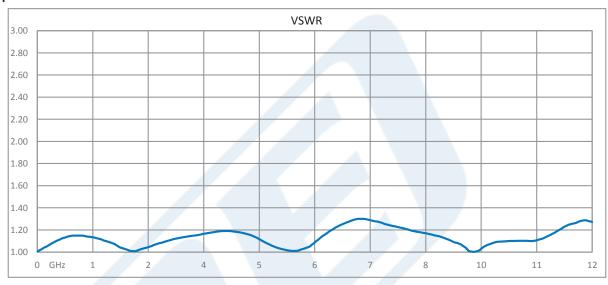


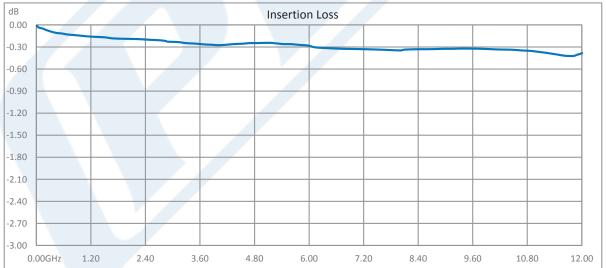


# **Electromechanical Relay Switches Technical Data**

PE71S6385

#### **Typical Performance Data**





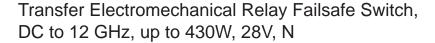
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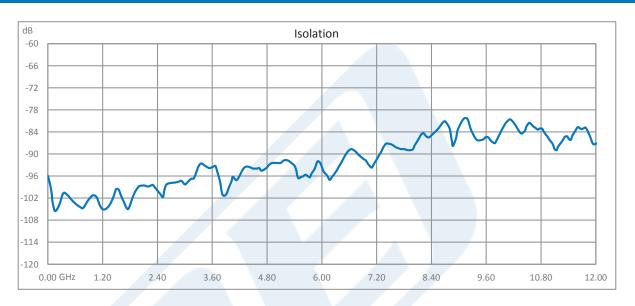






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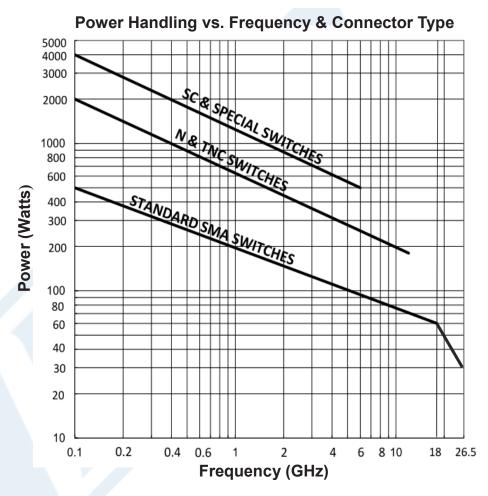
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#### **Environmental and Test Conditions:**

- 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 Failsafe Switch, DC to 12 GHz, up to 430W, 28V, 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.

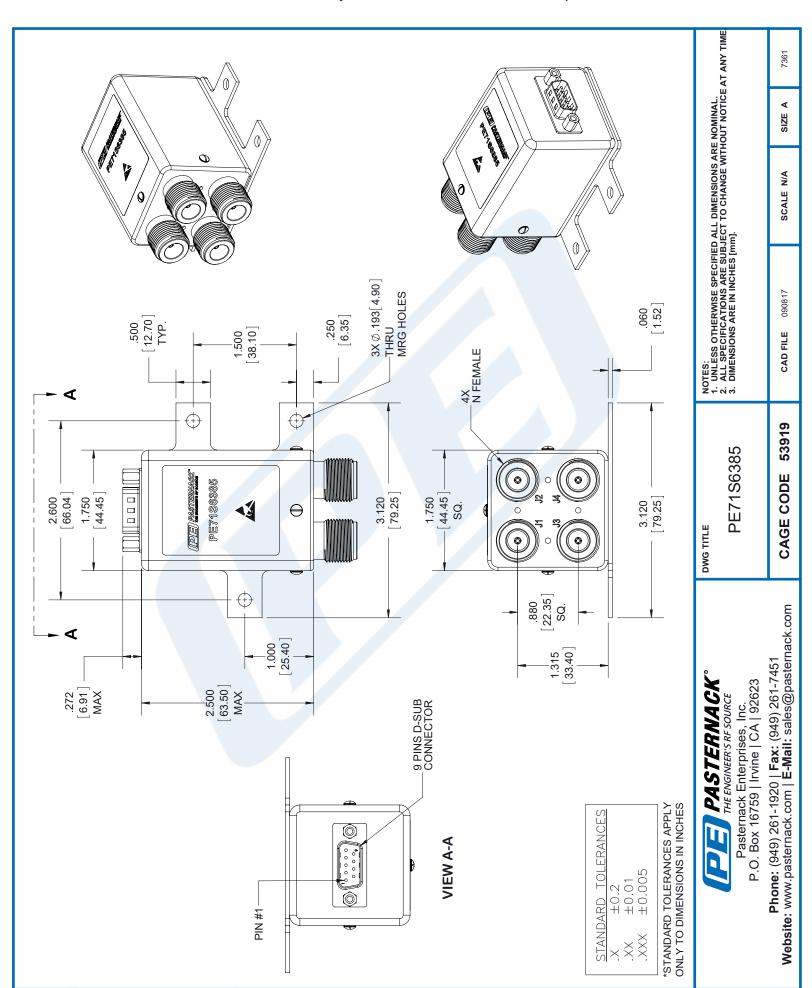
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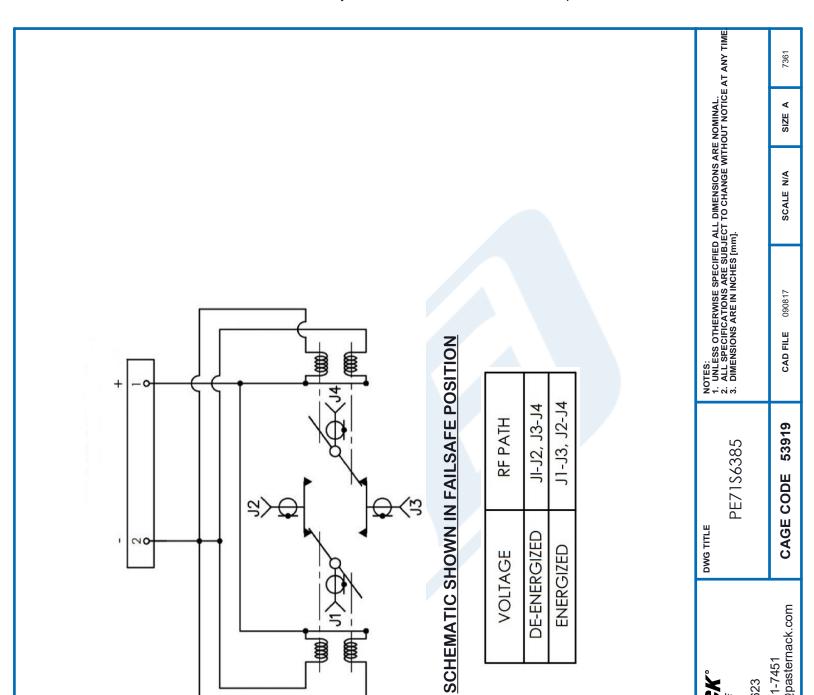
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**PE71S6385 CAD Drawing**Transfer Electromechanical Relay Failsafe Switch, DC to 12 GHz, up to 430W, 28V, N



**PE71S6385 CAD Drawing**Transfer Electromechanical Relay Failsafe Switch, DC to 12 GHz, up to 430W, 28V, N



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