



# **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

#### **Applications**

- High Performance Relay Switch
- Military Communications

- -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
- 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					
Description	Minimum	Typical	Maximum	Units		
Frequency Range	DC		12	GHz		
Impedance		50		Ohms		
Operating Voltage	26	28	30	Volts		
Actuating Current @ 28 Volts		90		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 Failsafe Switch, DC to 12 GHz, up to 430W, 28V, N PE71S6385

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**

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Description	F1	F2	<b>F</b> 3	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	
chanical Specificatior Size	IS						
Package Type				Connectorized			
Operating Life			:	2,000,000 Cycle	s		
Connectors RF Connector Type Control Connector				N Female 9 Pin D-Sub			
r <b>ironmental Specifica</b> Temperature Operating Range Storage Range	tions			-25 to +70 deg C -55 to +100 deg			
Shock	MIL-STD-202 Method 213, Cond. D 500G Non C						
Vibration				ing MIL-STD-202 Method 214, Cond. D 10G RMS Non Operating			
npliance Certification	I <b>S</b> (see produc	t page for cu	rrent docum	ent)			
tted and Other Data Notes:							

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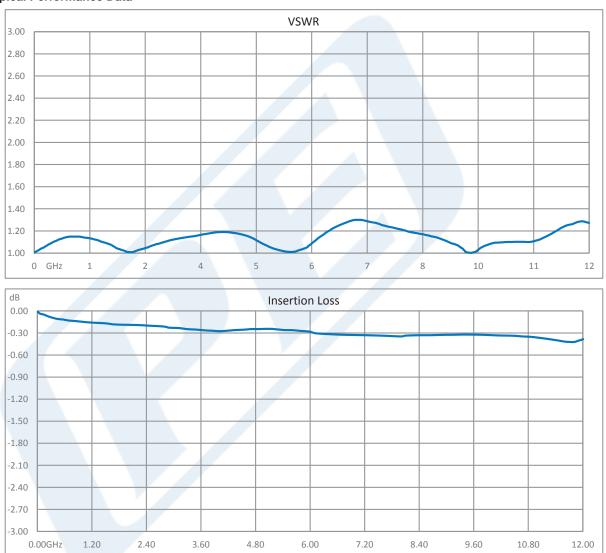
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### **Electromechanical Relay Switches Technical Data**



Typical Performance Data

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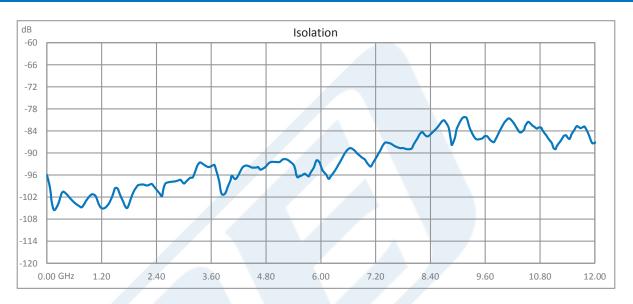
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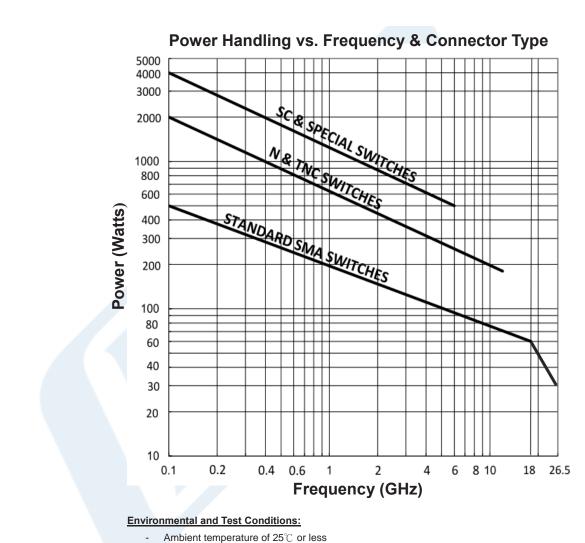






## **Electromechanical Relay Switches Technical Data**

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

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# Electromechanical Relay Switches Technical Data

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.

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

URL: https://www.pasternack.com/transfer-electromechanical-relay-failsafe-switch-12-ghz-200w-28v-n-pe71s6385-p.aspx

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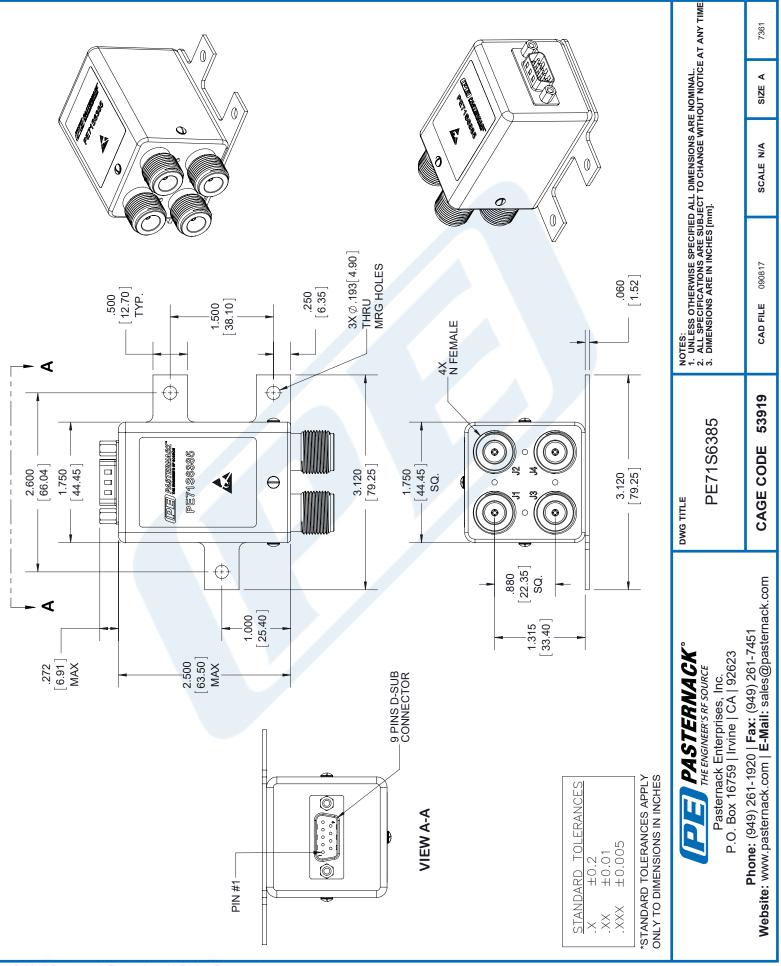




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PE71S6385 CAD Drawing Transfer Electromechanical Relay Failsafe Switch, DC to 12 GHz, up to 430W, 28V, N



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