

# Transfer Electromechanical Relay Latching Switch, DC to 12 GHz, up to 90W, 12V, SMA



# **Electromechanical Relay Switches Technical Data Sheet**

PE71S6390

#### **Features**

- Tranfer (DPDT)
- DC to 12 GHz Frequency Range
- Isolation greater than 70 dB typical
- 5M Cycle Min Operating Life
- +12 Volt DC
- 90 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
- SMA 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 PE71S6390 is a Transfer (DPDT) electromechanical relay switch that operates across a wide frequency range of DC to 12 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 0.2 dB typical and isolation greater than 70 dB typical. 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 SMA 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	1.4:1		
Insertion Loss		0.2	0.3	dB	
Isolation	60	70		dB	
Input Power (CW)			75	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 90W, 12V, SMA PE71S6390

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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 6	6 to 12				GHz
VSWR, Max	1.2:1	1.3:1		, (6)		
Insertion Loss, Max	0.2	0.3				dB
Isolation, Min	70	60				dB
Input Power, Typ (CW)	90	75				Watts
1						

#### **Mechanical Specifications**

Package Type Connectorized 5,000,000 Cycles Operating Life

**Connectors** 

RF Connector Type **SMA 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-

Vibration

Operating

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

Compliance Certifications (see product page for current document)

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

Notes:

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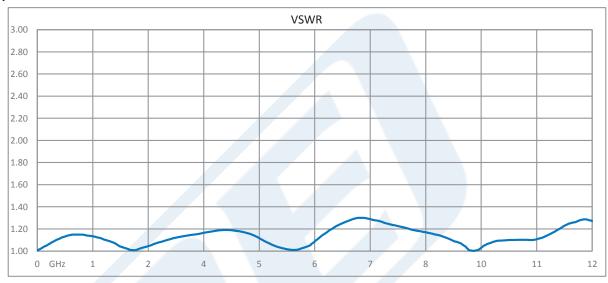
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# **Electromechanical Relay Switches Technical Data**

## PE71S6390

#### **Typical Performance Data**

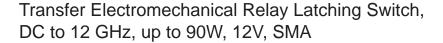




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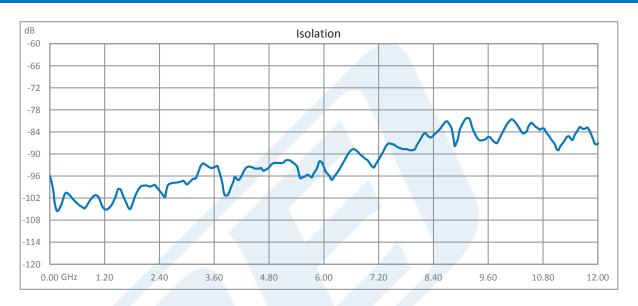






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## PE71S6390



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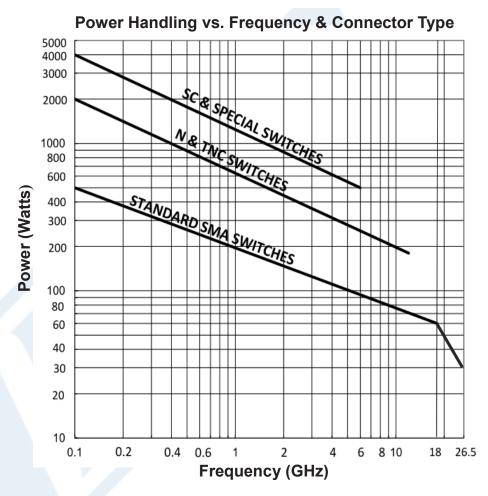


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#### **Environmental and Test Conditions:**

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

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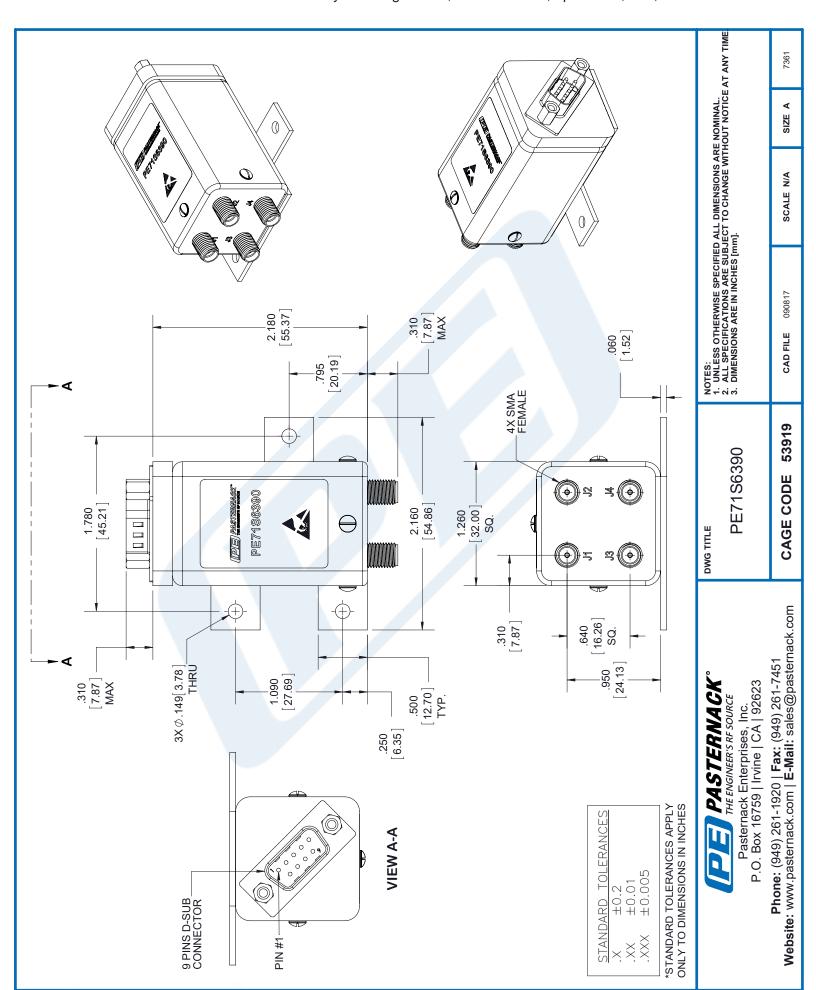
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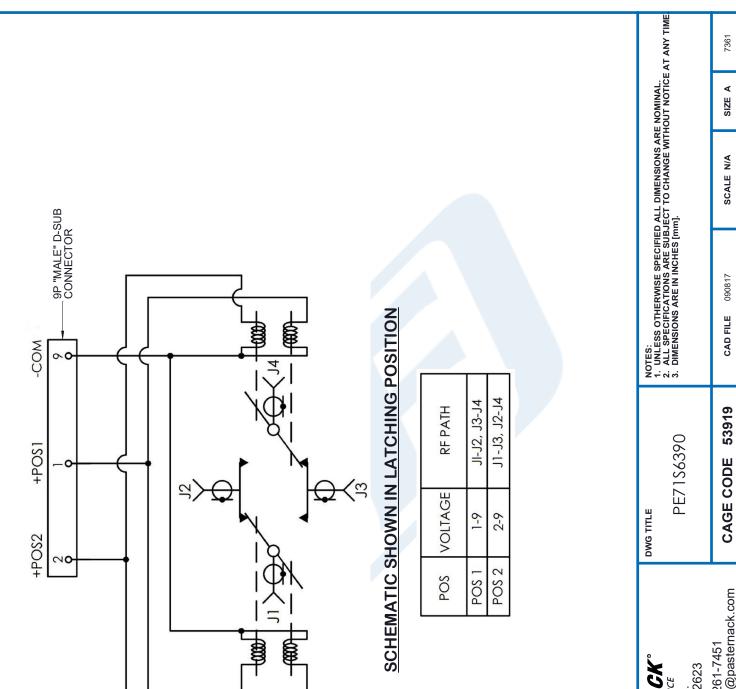
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URL: https://www.pasternack.com/transfer-electromechanical-relay-latching-switch-12-ghz-75w-12v-sma-pe71s6390-p.aspx

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