



Electromechanical Relay Switches Technical Data Sheet

PE71S6353

Features

- Single Pole Double Throw
- DC to 18 GHz Frequency Range
- Isolation greater than 80 dB typical
- 5M Cycle Min Operating Life
- +12 Volt DC
- 90 Watt average Power
- · Latching Actuator
- 1 Watt Indicators

- -25 to +70°C Operating Temperature
- · Insertion Loss as low as 0.15 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 PE71S6353 is a Single Pole Double Throw (SPDT) electromechanical relay switch that operates across a wide frequency range of DC to 18 GHz and can handle up to 90 Watts of CW input power in a break before make condition. The design features a Latching actuator with 1W Indicators, and is rated for 5M life cycles for high reliability operation. Impressive performance includes insertion loss less than 0.15 dB typical and isolation greater than 80 dB typical. This switch requires 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 indicator monitoring. The model is guaranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

Electrical Specifications

Switch Type
Actuator Type
Switching Sequence
Actuator Options
Indicator Rating

SPDT Latching

Break before Make

Indicators

1 Watts / 32 Volts / 125 mA

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	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		0.15	0.35	dB
Isolation	65	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: SPDT Electromechanical Relay Latching Switch, DC to 18 GHz, up to 90W, 12V, Indicators, SMA PE71S6353

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





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Performance by Frequency

F1	F2	F3	F4	F5	Units
DC to 6	6 to 12	12 to 18			GHz
1.2:1	1.3:1	1.4:1	, Es.		
0.15	0.25	0.35			dB
80	75	65			dB
90	75	60			Watts
	1.2:1 0.15 80	1.2:1 1.3:1 0.15 0.25 80 75	1.2:1 1.3:1 1.4:1 0.15 0.25 0.35 80 75 65	1.2:1 1.3:1 1.4:1 0.15 0.25 0.35 80 75 65	1.2:1 1.3:1 1.4:1 0.15 0.25 0.35 80 75 65

Mechanical Specifications

Size

Package Type Connectorized

Operating Life 5,000,000 Cycles

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 Operating

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

Operating

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Vibration

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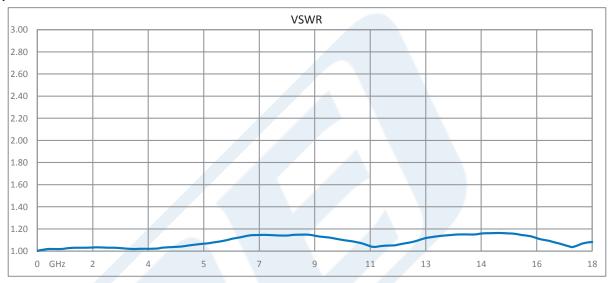


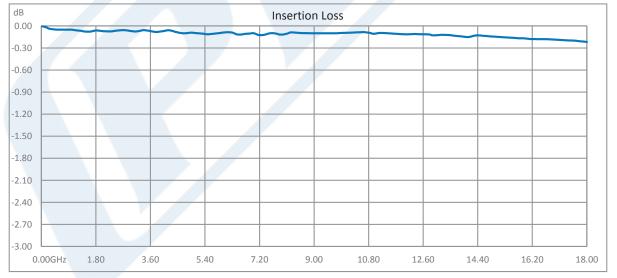


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Typical Performance Data





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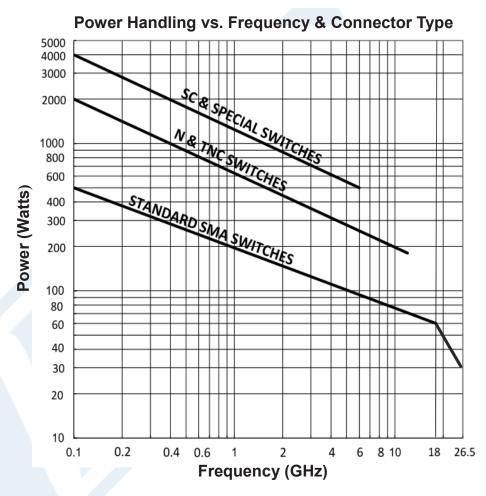
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Environmental and Test Conditions:

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

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SPDT Electromechanical Relay Latching Switch, DC to 18 GHz, up to 90W, 12V, Indicators, 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.

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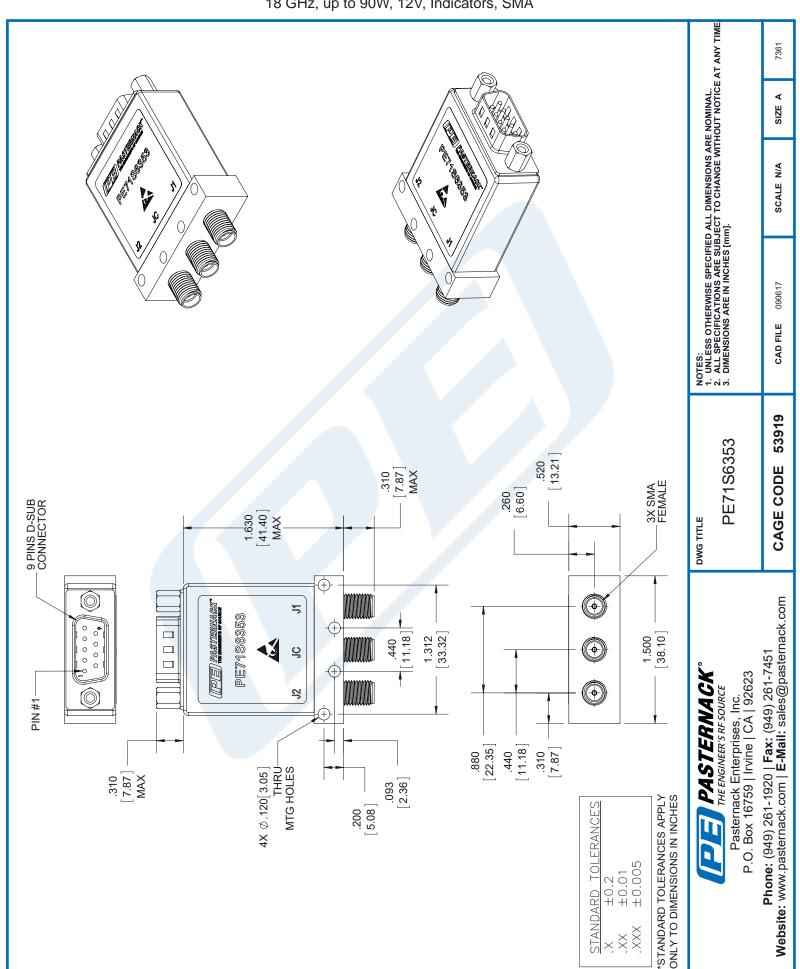
URL: https://www.pasternack.com/spdt-electromechanical-relay-latching-switch-18-ghz-60w-12v-indicators-sma-pe71s6353-p.aspx

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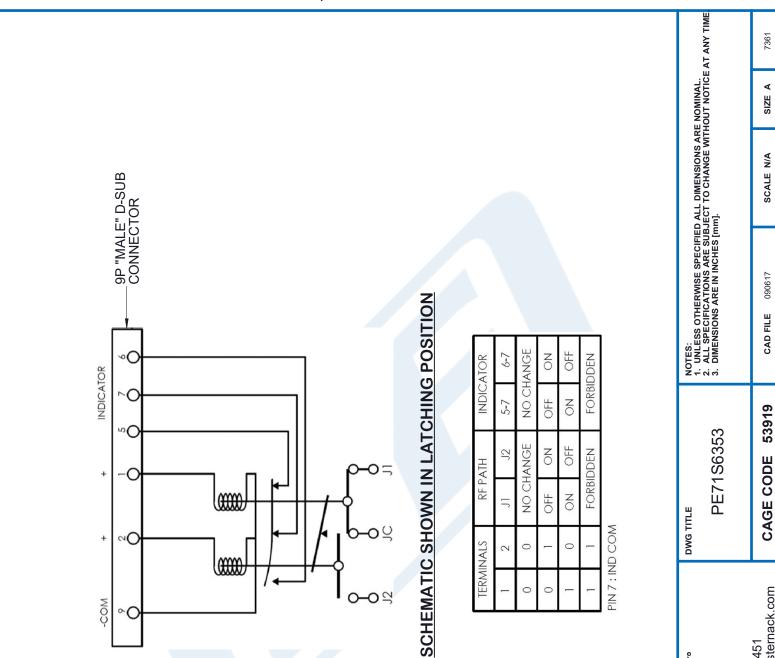
PE71S6353 CAD Drawing

SPDT Electromechanical Relay Latching Switch, DC to 18 GHz, up to 90W, 12V, Indicators, SMA



PE71S6353 CAD Drawing

SPDT Electromechanical Relay Latching Switch, DC to 18 GHz, up to 90W, 12V, Indicators, SMA



*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES STANDARD TOLERANCES ±0.005 ±0.2 ±0.01

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