



Electromechanical Relay Switches Technical Data Sheet

PE71S6350

Features

- · Single Pole Double Throw
- DC to 18 GHz Frequency Range
- Isolation greater than 85 dB typical
- 2M Cycle Min Operating Life
- +12 Volt DC
- 90 Watt average Power
- Failsafe Actuator
- TTL Control
- -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
- · Hot Switching Capability Consult Factory
- · S-Parameter test data available upon request

Applications

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

Description

The PE71S6350 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 Failsafe actuator with TTL logic control and is rated for 2M life cycles for high reliability operation. Impressive performance includes insertion loss less than 0.15 dB typical and isolation greater than 85 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 and TTL control functions. 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 Actuator Options TTL Control SPDT Failsafe

Break before Make

TTL Logic

on: 2.4 to 5 Volts off: 0 to 0.8 Volts

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	85		dB
Input Power (CW)			60	Watts

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 Failsafe Switch, DC to 18 GHz, up to 90W, 12V, TTL, SMA PE71S6350

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





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Switching Time	20	ms Max

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12	12 to 18			GHz
VSWR, Max	1.2:1	1.3:1	1.4:1			
Insertion Loss, Max	0.15	0.25	0.35			dB
Isolation, Min	85	75	65			dB
Input Power, Typ (CW)	90	75	60			Watts

Mechanical Specifications

Size

Package Type Connectorized

Operating Life 2,000,000 Cycles

Connectors

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

Environmental Specifications

Temperature

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

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

ing

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

Operating

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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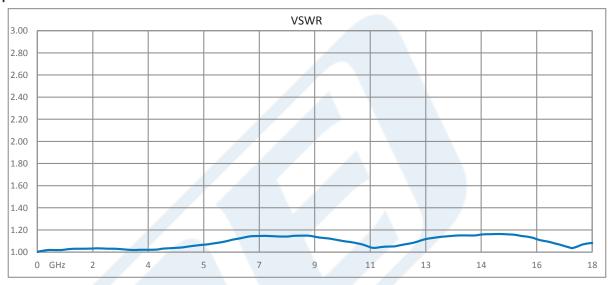


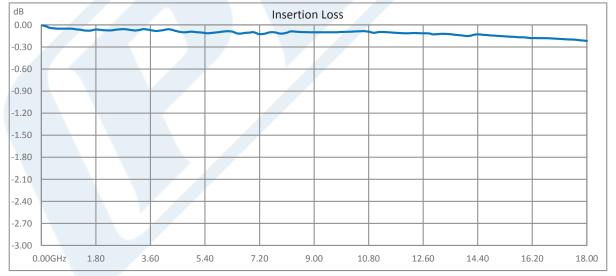


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Typical Performance Data





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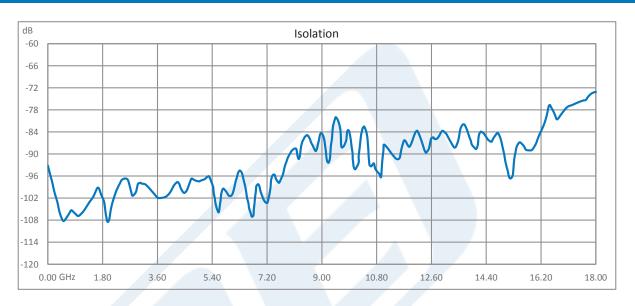
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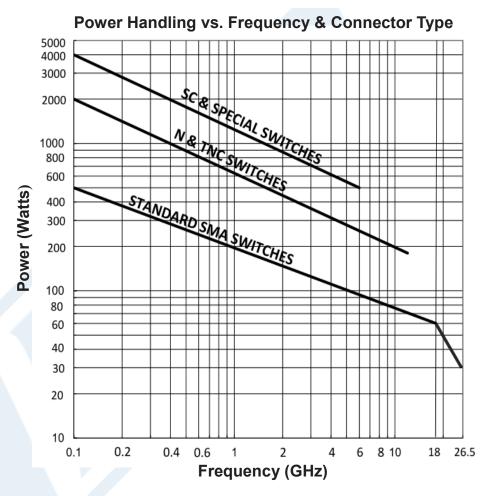
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Environmental and Test Conditions:

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

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SPDT Electromechanical Relay Failsafe Switch, DC to 18 GHz, up to 90W, 12V, TTL, 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.

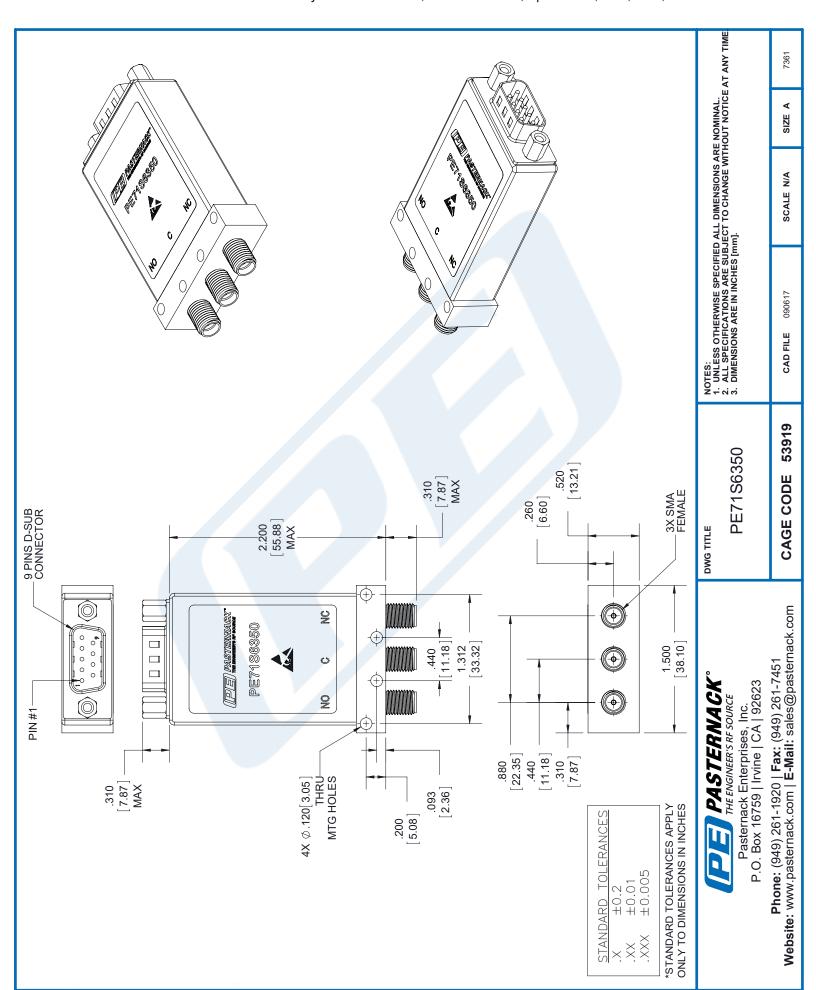
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URL: https://www.pasternack.com/spdt-electromechanical-relay-failsafe-switch-18-ghz-60w-12v-ttl-sma-pe71s6350-p.aspx

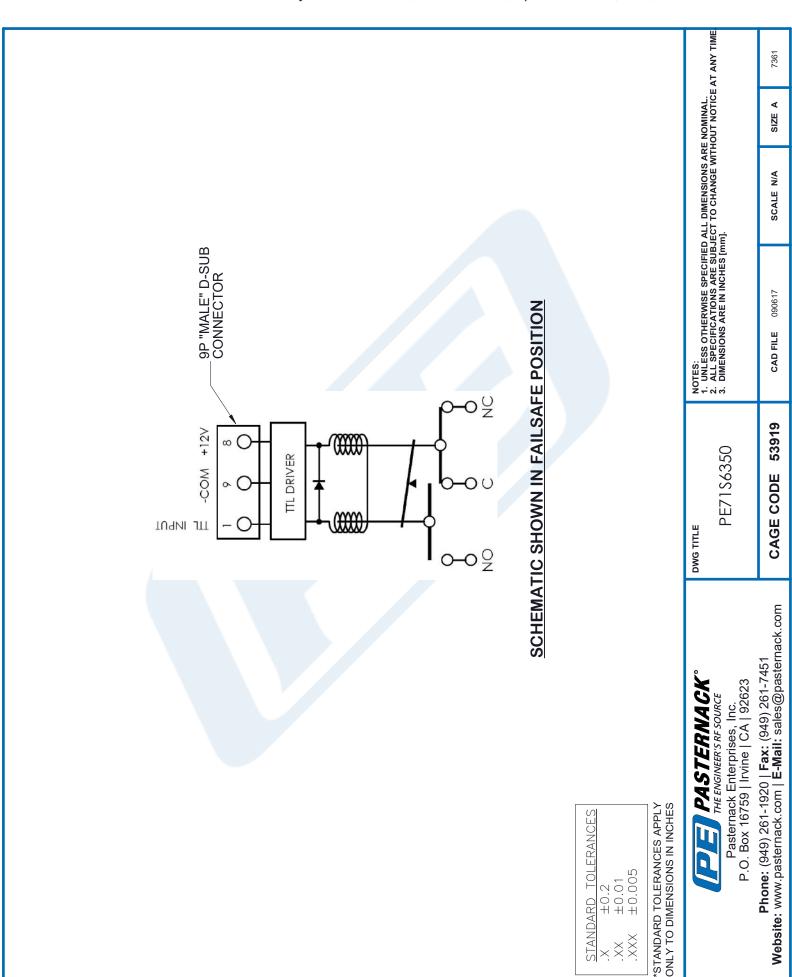
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PE71S6350 CAD DrawingSPDT Electromechanical Relay Failsafe Switch, DC to 18 GHz, up to 90W, 12V, TTL, SMA



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