



Electromechanical Relay Switches Technical Data Sheet

PE71S6351

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
- 1 Watt Indicators
- -25 to +70°C Operating Temperature

Applications

• High Performance Relay Switch

Military Communications

- 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
- Communications Systems
- Test & Measurement

Description

The PE71S6351 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 indicators 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 +12Vdc 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. 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	SPDT
Actuator Type	Failsafe
Switching Sequence	Break before Make
Actuator Options	Indicators
Indicator Rating	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	85		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 Failsafe Switch, DC to 18 GHz, up to 90W, 12V, Indicators, SMA PE71S6351

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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Description	F1	F2	F 3	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	
chanical Specification Size	ns						
Package Type				Connectorized			
Operating Life				2,000,000 Cycle	es		
Connectors RF Connector Type Control Connector				SMA Female 9 Pin D-Sub			
rironmental Specifica Temperature Operating Range Storage Range	itions			-25 to +70 deg (-55 to +100 deg			
Shock	ock			MIL-STD-202 Method 213, Cond. D 500G Non Op			
Vibration				ing MIL-STD-202 Method 214, Cond. D 10G RMS No Operating			
npliance Certification	1s (see produ	ct page for cu	rrent docur	nent)			
tted and Other Data Notes:							

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ISO 9001 : 2008 Registered

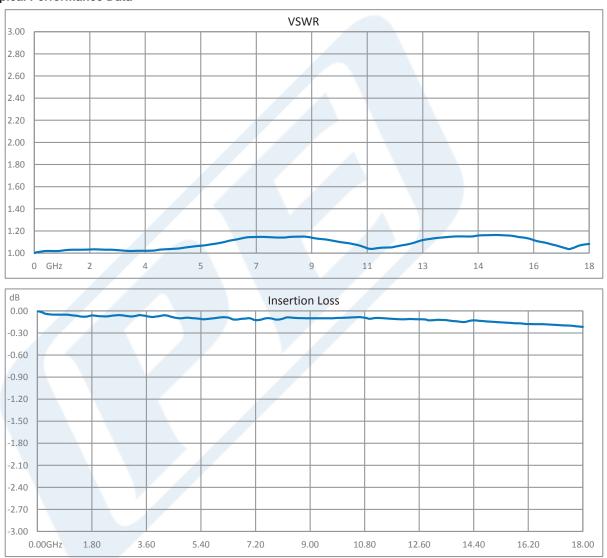
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Typical Performance Data

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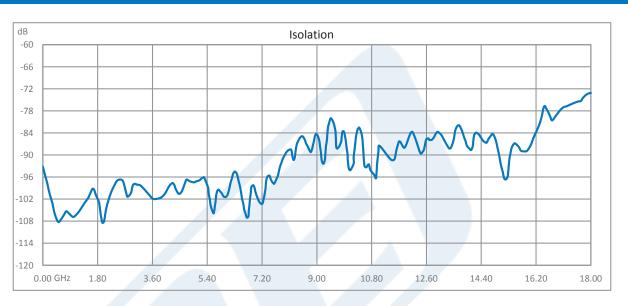
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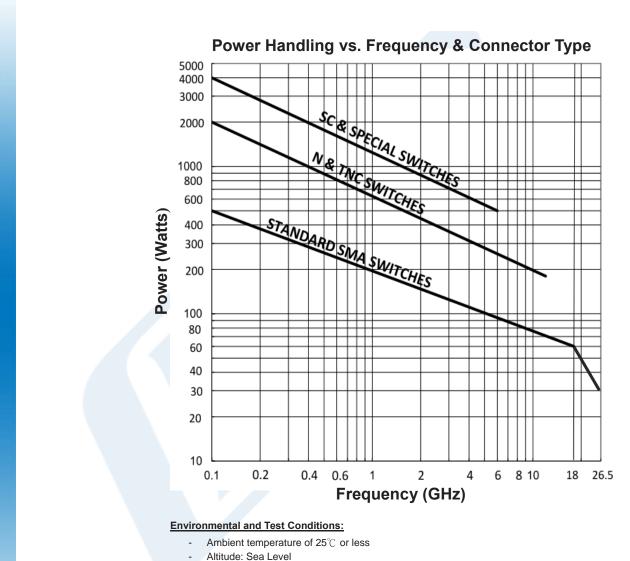


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SPDT Electromechanical Relay Failsafe Switch, DC to 18 GHz, up to 90W, 12V, Indicators, SMA

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- Annude. Sea Level
 Load VSWR: 1.20:1 max.
- LOAD VSVVR: 1.20:11
- Cold Switching

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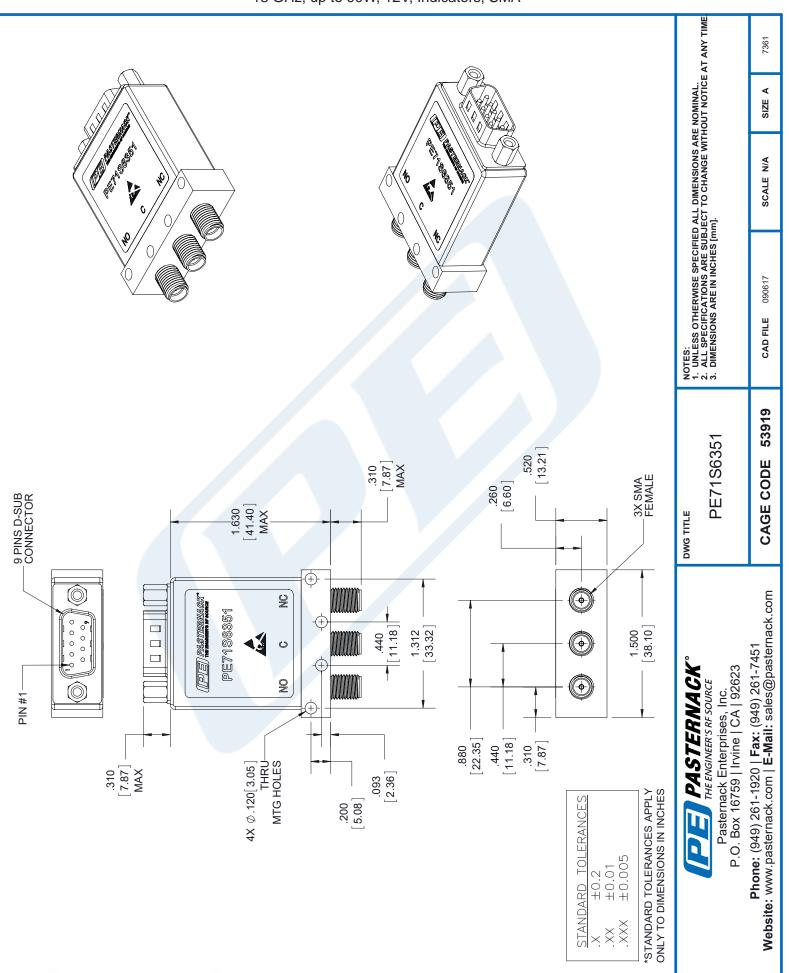
URL: https://www.pasternack.com/spdt-electromechanical-relay-failsafe-switch-18-ghz-60w-12v-indicators-smape71s6351-p.aspx

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PE71S6351 CAD Drawing SPDT Electromechanical Relay Failsafe Switch, DC to

18 GHz, up to 90W, 12V, Indicators, SMA



PE71S6351 CAD Drawing

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

