



Electromechanical Relay Switches Technical Data Sheet

PE71S6358

Features

- Single Pole Double Throw
- DC to 18 GHz Frequency Range
- Isolation greater than 85 dB typical
- 5M Cycle Min Operating Life
- +12 Volt DC
- 90 Watt average Power
- Latching Actuator
- Internally Terminated

Applications

- High Performance Relay Switch
- Military Communications

- -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
- Communications Systems
- Test & Measurement

Description

The PE71S6358 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 50 ohm terminations 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 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 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, Terminated
Actuator Type	Latching
Switching Sequence	Break before Make

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Termination 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
Termination Input Power (CW)			5	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, Terminated, DC to 18 GHz, up to 90W, 12V, SMA PE71S6358

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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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	
hanical Specificatio	ns						
Package Type				Connectorized			
Operating Life				5,000,000 Cycles			
Connectors RF Connector Type Control Connector				SMA Female 9 Pin D-Sub			
ironmental Specifica Temperature Operating Range Storage Range	ations			-25 to +70 deg (-55 to +100 deg			
Shock				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	ns (see produ	ct page for cu	irrent docur	ment)			
ted and Other Data Notes:							

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VSWR 3.00 2.80 2.60 2.40 2.20 2.00 1.80 1.60 1.40 1.20 1.00 0 GHz 2 5 7 9 13 4 11 14 16 18 dB Insertion Loss 0.00 -0.30 -0.60 -0.90 1.20 -1.50 1.80 -2.10 -2.40 -2.70 3.00 0.00GHz 1.80 3.60 5.40 7.20 9.00 10.80 12.60 14.40 16.20 18.00

Typical Performance Data

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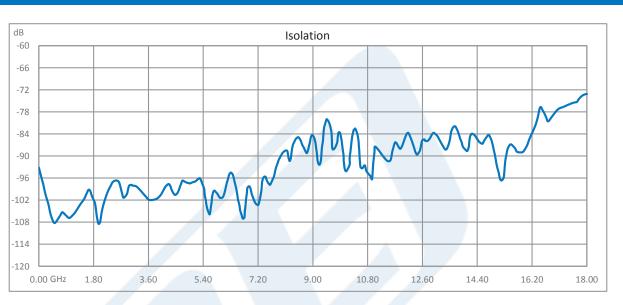
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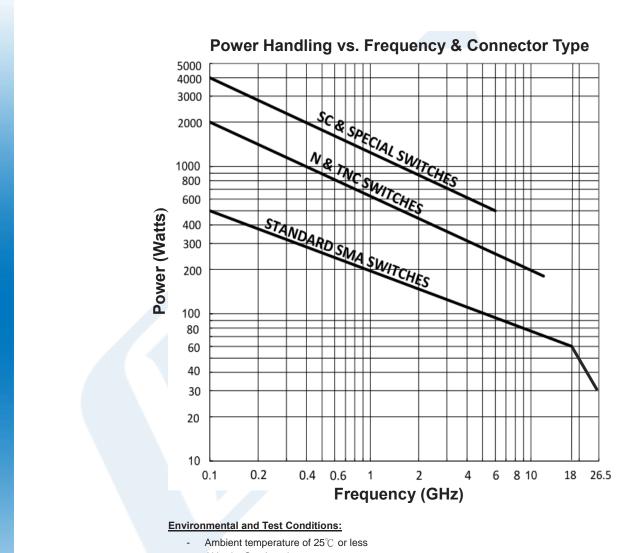
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- Altitude: Sea Level

- Load VSWR: 1.20:1 max.
- Cold Switching

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URL: https://www.pasternack.com/spdt-electromechanical-relay-latching-switch-terminated-18-ghz-60w-12v-smape71s6358-p.aspx

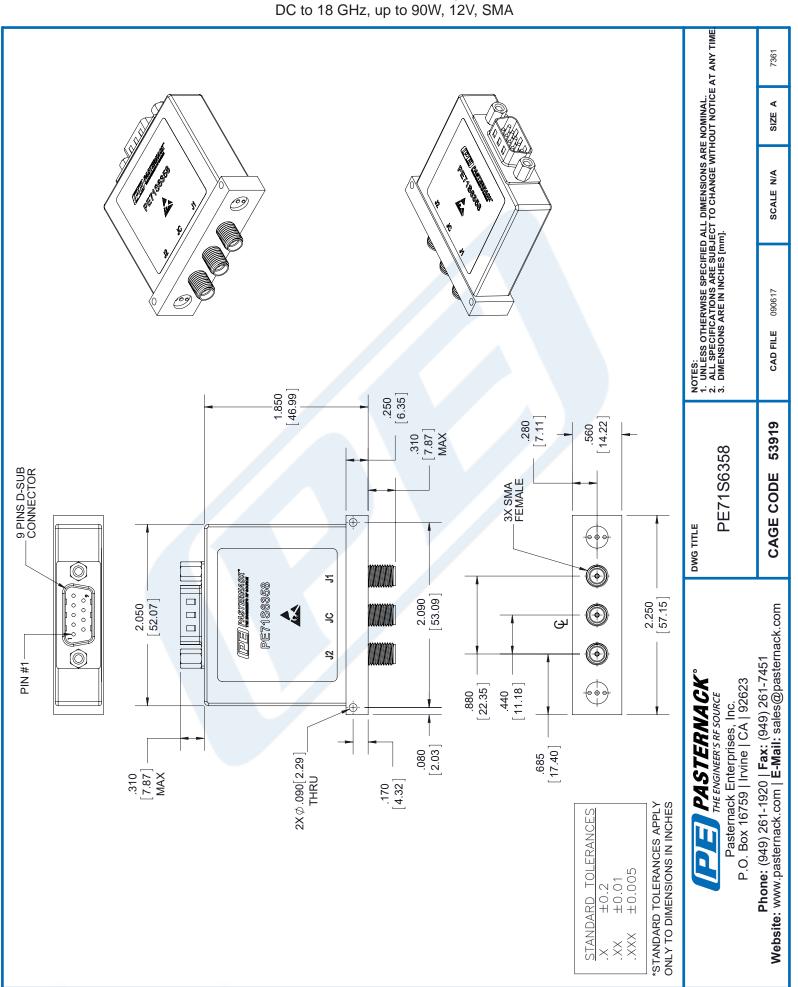
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PE71S6358 CAD Drawing

SPDT Electromechanical Relay Latching Switch, Terminated,



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

