



Electromechanical Relay Switches Technical Data Sheet

PE71S6355

Features

- Single Pole Double Throw
- DC to 18 GHz Frequency Range
- Isolation greater than 85 dB typical
- 2M Cycle Min Operating Life
- +28 Volt DC
- 90 Watt average Power
- Failsafe 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 PE71S6355 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 has 50 ohm terminations 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 +28Vdc 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	Failsafe
Switching Sequence	Break before Make

Description	Minimum	Typical	Maximum	Units	
Frequency Range	DC		18	GHz	
Impedance		50		Ohms	
Termination Impedance		50		Ohms	
Operating Voltage	26	28	30	Volts	
Actuating Current @ 28 Volts		90		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 Failsafe Switch, Terminated, DC to 18 GHz, up to 90W, 28V, SMA PE71S6355

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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		
hanical Specificatio	ns							
Package Type				Connectorized				
Operating Life				2,000,000 Cycle	s			
Connectors RF Connector Type Control Connector				SMA Female 9 Pin D-Sub				
ironmental Specifica Temperature Operating Range Storage Range	ations			-25 to +70 deg 0 -55 to +100 deg				
Shock				MIL-STD-202 Method 213, Cond. D 500G Non Op				
Vibration				MIL-STD-202 Method 214, Cond. D 10G RMS No Operating				
npliance Certification	ns (see produ	ct page for cu	rrent docur	ment)				
ted and Other Data Notes:								

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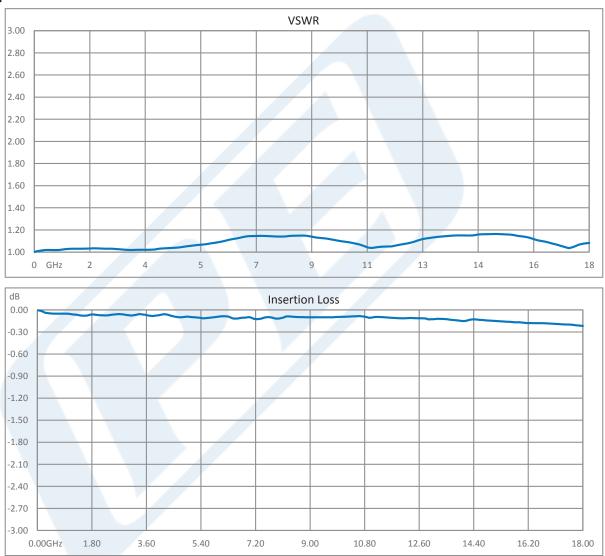
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Typical Performance Data

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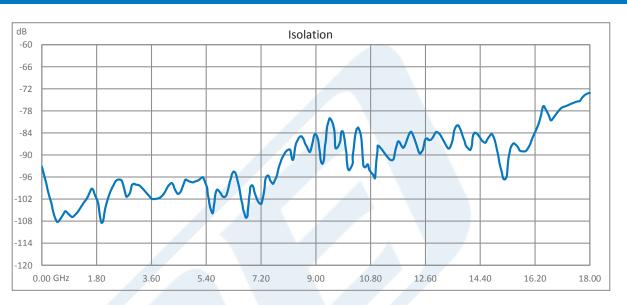
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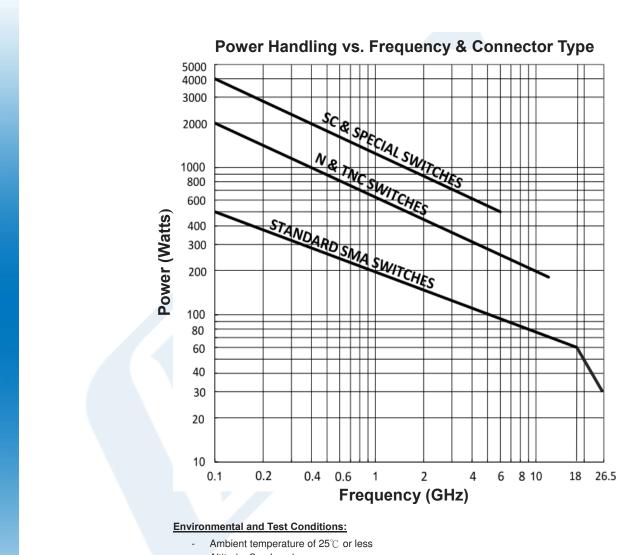
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Altitude: Sea Level

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

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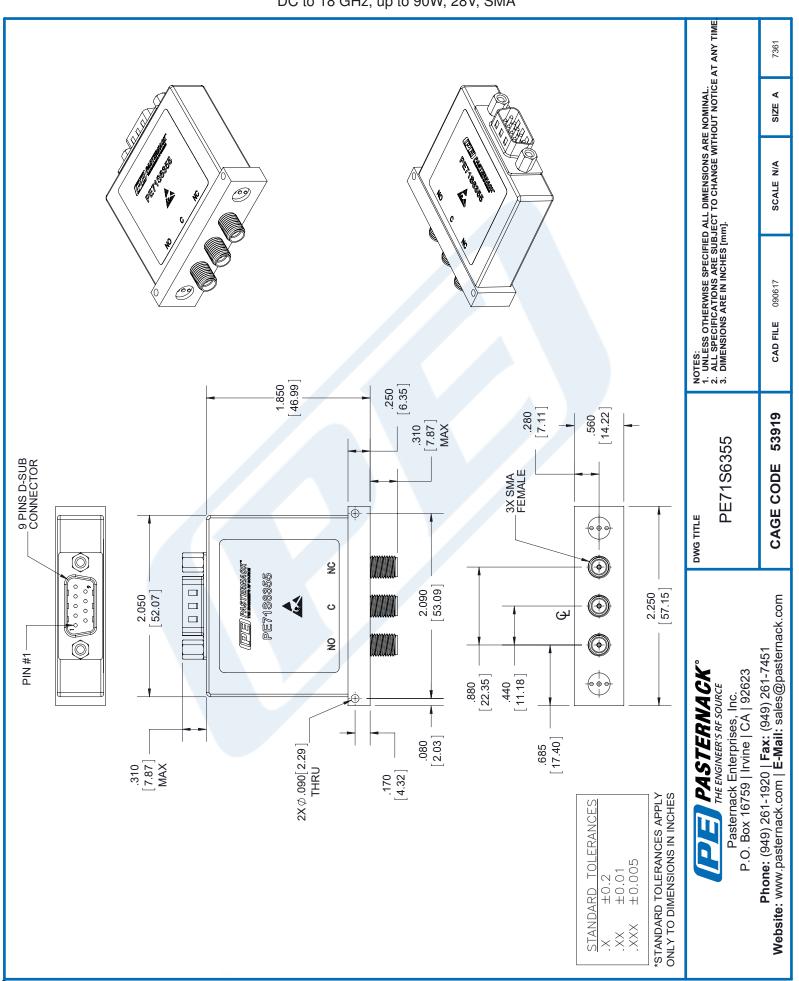
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URL: https://www.pasternack.com/spdt-electromechanical-relay-failsafe-switch-terminated-18-ghz-60w-28v-smape71s6355-p.aspx

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SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 18 GHz, up to 90W, 28V, SMA



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