



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

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 Size	ns							
Package Type				Connectorized				
Operating Life				2,000,000 Cycle	es			
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 Ope				
Vibration	ing MIL-STD-202 Method 214, C Operating							
npliance Certification	ns (see produc	ct page for cu	rrent docur	ment)				
ted and Other Data Notes:								

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3.00
2.80
2.60
2.40
2.20
2.00
1.80
1.60
1.40
1.20
1.00



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

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SPDT Electromechanical Relay Failsafe Switch, Terminated, DC to 18 GHz, up to 90W, 28V, 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-terminated-18-ghz-60w-28v-smape71s6355-p.aspx

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SPDT Electromechanical Relay Failsafe Switch, Terminated,



PE71S6355 CAD Drawing

SPDT Electromechanical Relay Failsafe Switch, Terminated,

DC to 18 GHz, up to 90W, 28V, SMA

