



Electromechanical Relay Switches Technical Data Sheet

PE71S6070

Features

- Transfer Relay Switch
- DC to 12.4 GHz Frequency Range
- 2.5M Cycle Min Operating Life
- 200 Watt Avg Power Max

Applications

- High Performance Relay Switch
- Military Communications

- -40 to +85 Deg C Operating Temperature
- Insertion Loss 0.5 dB Max
- VSWR 1.5:1 Max
- Communications Systems
- Test & Measurement

Description

The PE71S6070 is a Transfer Electromechanical Relay Switch that operates from DC to 12.4 GHz and can handle up to 700 Watts of CW input power in a Break Before Make condition. The design features a Failsafe Actuator with Position Indicators circuitry and is rated for 2.5M Life Cycles for high reliability operation. Insertion loss is specified from 0.15 dB max and Isolation from 85 dB min, with +28 Vdc operating voltage. Performance is guaranteed over -40°C to +85°C and the switch assembly is RoHS and REACH compliant. The package interface uses solder terminals and N Female connectors.

Electrical Specifications

Switch Type Actuator Type Switching Sequence Actuator Options Indicator Rating Transfer Failsafe Break before Make Indicators 1 Watts / 30 Volts / 100 mA

Description	Minimum	Typical	Maximum	Units	
Frequency Range	DC		12.4	GHz	
Impedance		50		Ohms	
Operating Voltage	24	28	30	Volts	
Actuating Current @ 28 Volts		140		mA	
VSWR			1.5:1		
Insertion Loss			0.5	dB	
Isolation	60			dB	
Input Power (CW)			200	Watts	
Switching Time			15	ms Max	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Transfer Electromechanical Relay Failsafe Switch, DC to 12.4 GHz, up to 700W, 28V Indicators, N PE71S6070

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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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1	1 to 2	2 to 3	3 to 8	8 to 12.4	GHz
VSWR, Max	1.15:1	1.2:1	1.25:1	1.35:1	1.5:1	
Insertion Loss, Max	0.15	0.2	0.25	0.35	0.5	dB
Isolation, Min	85	80	75	70	60	dB
Input Power, Max (CW)	700	500	400	250	200	Watts

Electrical Specification Notes: Average Power and Actuating Current values at 25°C.

Mechanical Specifications

Size Length Width/Diameter Height Weight Package Type

Operating Life

Connectors

RF Connector Type RF Connector Specification Control Connector

Mechanical Specification Notes: Solder Pins: 250°C max/30sec.

Environmental Specifications

Temperature Operating Range Storage Range

Construction Shock Vibration

Environmental Specification Notes: Environmental specifications are guaranteed but not tested. 1.74 in [44.2 mm] 1.75 in [44.45 mm] 1.75 in [44.45 mm]

0.4995 lbs [226.57 g] Connectorized

2,500,000 Cycles

N Female MIL C 39012 Solder Pin

-40 to +85 deg C -55 to +85 deg C

Splashproof MIL-STD-202, Method 213B, Cond.G MIL-STD-202, Method 204D, Cond.C

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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes: • Values shown are typical at 25°C.

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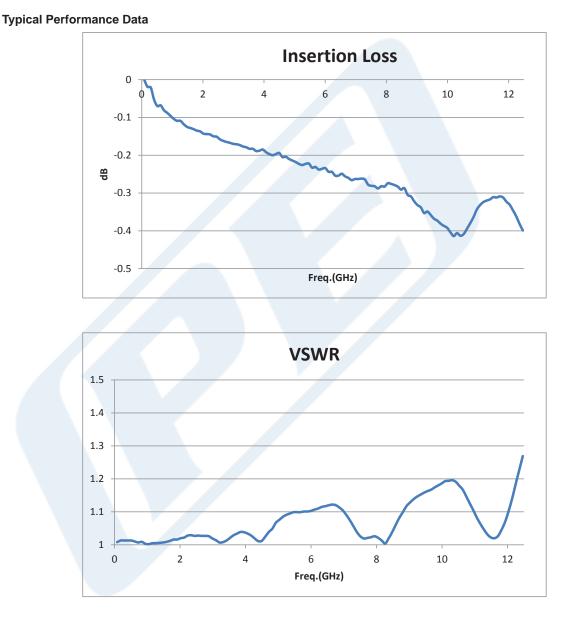


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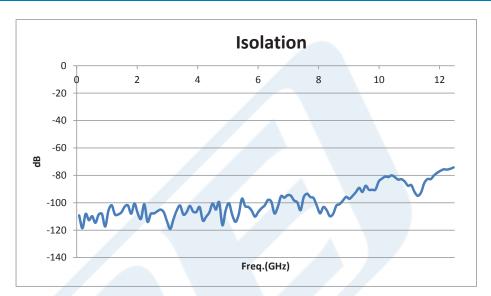
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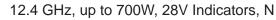
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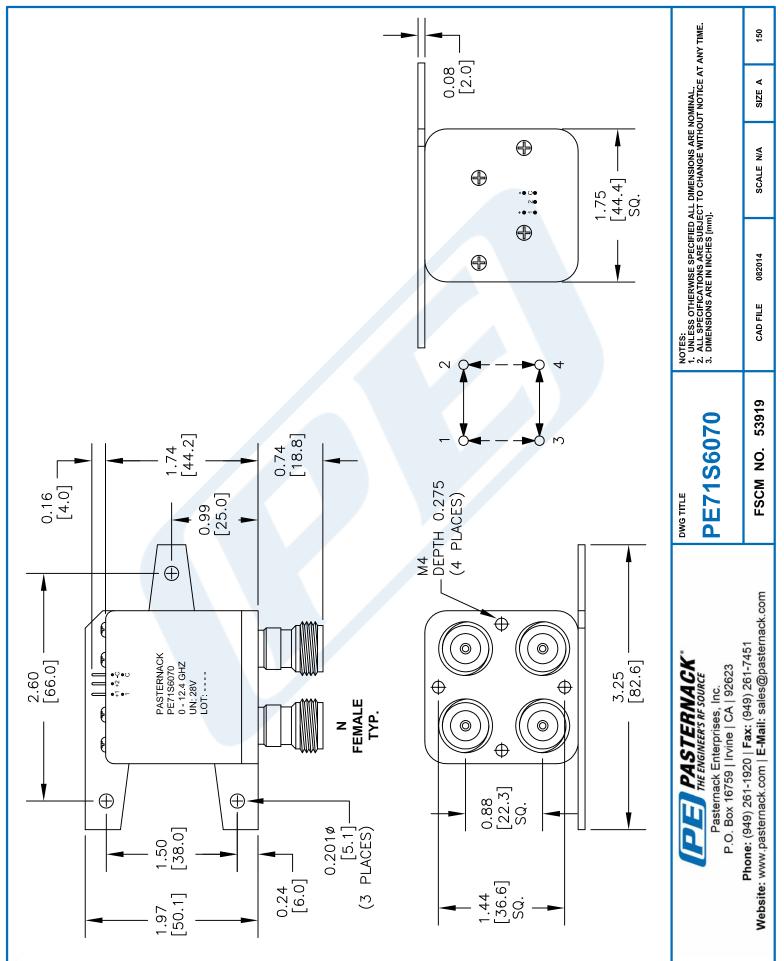
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PE71S6070 CAD Drawing

Transfer Electromechanical Relay Failsafe Switch, DC to





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