



Electromechanical Relay Switches Technical Data Sheet

PE71S6496

Features

- · Transfer Electromechanical Relay Switch
- · DC to 12 GHz Frequency Range
- · Failsafe Actuator
- · 2M Lifecycle Rating
- · Insertion Loss 0.2 dB typ
- Isolation > 70 dB typ
- VSWR as low as 1.25:1 max
- +28 Volt DC Bias

- Solder Terminal Pins for DC Control
- N Type Female Connectors
- -25°C to +65°C Operating Temperature
- Up to 160 Watt Average Power Handling
- 50 Ohm Design
- · Hot Switching Capability Consult Factory
- · S-Parameter Data available upon request
- Rugged Design meets Mil-STD-202 Test Conditions

Applications

- · Aerospace & Defense
- Test & Measurement
- · Microwave Radio Systems
- Military & Commercial Communication Systems
- Research & Development
- SATCOM

- · Wireless Communications
- Enterprise
- IoT

Description

The PE71S6496 is a Transfer electromechanical relay switch that operates across a wide frequency range from DC to 12 GHz and can handle up to 160W of average power in a break before make condition. The 50 Ohm design is rated for 2 million lifecycles and features a Failsafe Actuator. Impressive typical performance includes 0.2 dB insertion loss and isolation greater than 70 dB. This switch requires +28Vdc bias voltage and operates over a temperature range of -25°C to +65°C. The rugged and compact package assembly supports N Type female connectors and Solder Pins for DC control. And for highly reliable operation, the model is guaranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

Electrical Specifications (TA = +25°C, DC Voltage = +28 Vdc)

Switch Type Transfer
Actuator Type Failsafe

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
Operating Voltage		+28		Volts
Actuating Set Current @ +28 Volts			160	mA
VSWR		1.3:1	1.7:1	
Insertion Loss		0.2	0.7	dB
Isolation	60	70		dB
Input Power (CW)			160	Watts
(at 12.4 GHz)				

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, 2M Lifecycles, N, 160 Watts, 28V, Solder Pin PE71S6496

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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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1	1 to 4	4 to 12			GHz
VSWR, Max	1.25:1	1.3:1	1.7:1			
Insertion Loss, Max	0.2	0.3	0.7			dB
Isolation, Min	70	70	60			dB

Mechanical Specifications

Size

Length 2.52 in [64.01 mm] Width/Diameter 3.12 in [79.25 mm] 1.75 in [44.45 mm] Height 0.1 lbs [45.36 q] Weight

Connectors

N Female RF Connector Type

Environmental Specifications

Temperature

Operating Range -25 to +65 deg C Storage Range -55 to +100 deg C

Shock MIL-STD-202 Method 213, Condition D, 500G (non

Vibration MIL-STD-202 Method 204, Condition D, 10G RMS (non oper)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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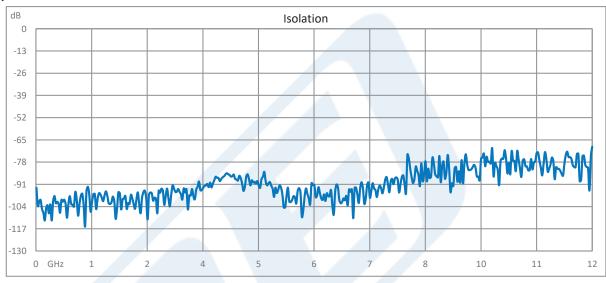


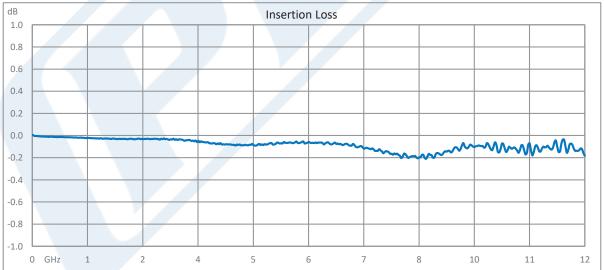


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Typical Performance Data





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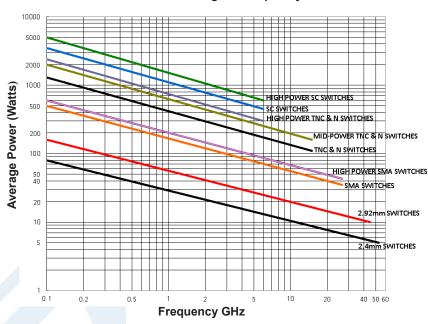


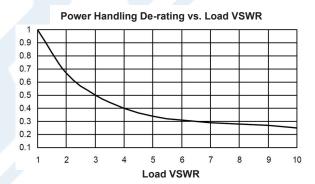


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Power Handling Chart and Derating Curves based on the following Test and Environmental Conditions: Ambient temperature: 20-25°C
Altitude: Sea Level to 1,000 feet
Relative Humidity: 50-55%
Load VSWR: ≤ 1.20:1
Operation: Cold Switching

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Transfer Electromechanical Relay Failsafe Switch DC to 12.4 GHz, 2M Lifecycles, N, 160 Watts, 28V, Solder Pin 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.

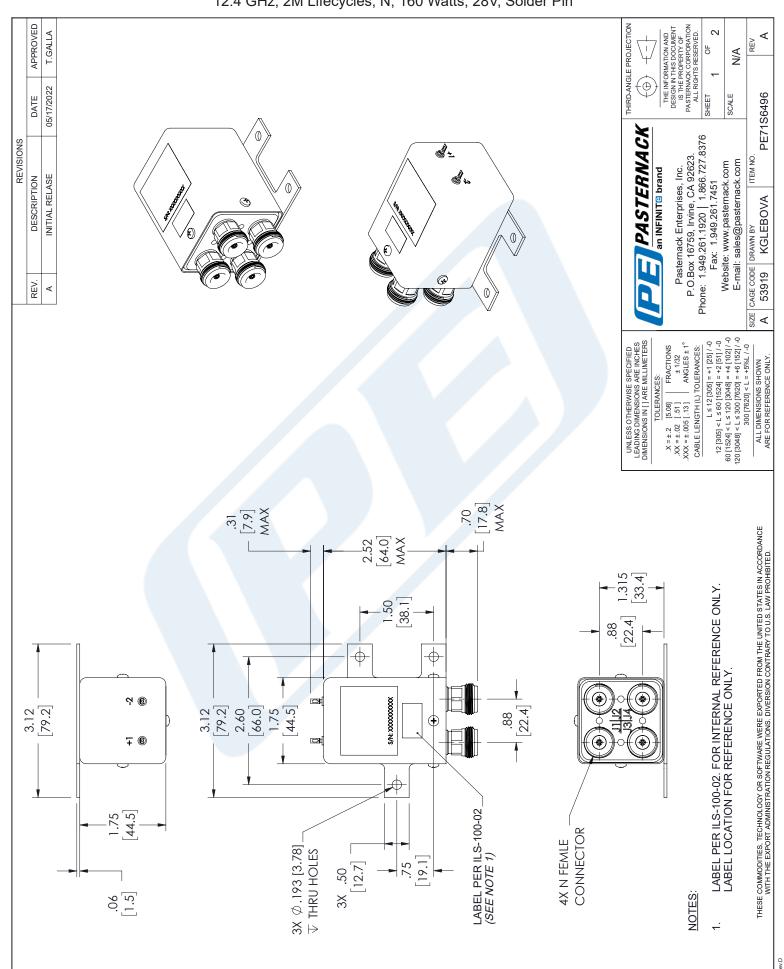
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URL: https://www.pasternack.com/transfer-electromechanical-relay-failsafe-switch-12.4-ghz-160w-28v-n-pe71s6496-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE71S6496 CAD Drawing

Transfer Electromechanical Relay Failsafe Switch DC to 12.4 GHz, 2M Lifecycles, N, 160 Watts, 28V, Solder Pin



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