Transfer Electromechanical Relay Failsafe Switch DC to 12.4 GHz, 2M Lifecycles, N, 50 Watts, 12V, Solder Pin

Electromechanical Relay Switches Technical Data Sheet
PE71S6494

## Features

- Transfer Electromechanical Relay Switch
- DC to 12 GHz Frequency Range
- Failsafe Actuator
- Insertion Loss 0.2 dB typ
- Isolation >70 dB typ
- VSWR as low as 1.25:1 max
- +12 Volt DC Bias
- Solder Terminal Pins for DC Control
- 2M Lifecycles
- N Type Female Connectors
- $-25^{\circ} \mathrm{C}$ to $+65^{\circ} \mathrm{C}$ Operating Temperature
- Up to 50 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 PE71S6494 is a Transfer electromechanical relay switch that operates across a wide frequency range from DC to 12 GHz and can handle up to 50 W 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 +12 Vdc bias voltage and operates over a temperature range of $-25^{\circ} \mathrm{C}$ to $+65^{\circ} \mathrm{C}$. 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 $\left(\mathrm{TA}=+25^{\circ} \mathrm{C}, \mathrm{DC}\right.$ Voltage $\left.=+12 \mathrm{Vdc}\right)$
Switch Type Transfer

Actuator Type
Failsafe

| Description | Minimum | Typical | Maximum | Units |
| :--- | :---: | :---: | :---: | :---: |
| Frequency Range | DC |  | 12.4 | GHz |
| Operating Voltage |  | +12 |  | Volts |
| Actuating Set Current @ +12 Volts |  |  | 380 | mA |


| VSWR |  | $1.2: 1$ | $1.7: 1$ |  |
| :--- | :---: | :---: | :---: | :---: |
| Insertion Loss | 60 | 0.2 | 0.7 | dB |
| Isolation | 70 |  | dB |  |
| Input Power (CW) |  | 50 | Watts |  |
| (at 12.4 GHz ) |  |  |  |  |

$$
\text { (at } 12.4 \mathrm{GHz} \text { ) }
$$

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 $12.4 \mathrm{GHz}, 2 \mathrm{M}$ Lifecycles, N, 50 Watts, 12V, Solder Pin PE71S6494

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Electromechanical Relay Switches Technical Data

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 |
| :--- | :---: | :---: | :---: | :---: | :---: |

## Mechanical Specifications

## Size

Length
Width/Diameter
2.52 in [64.01 mm]

Height
3.12 in [ 79.25 mm ]

Weight
$0.1 \mathrm{lbs}[45.36 \mathrm{~g}]$

Connectors
RF Connector Type
N Female

Environmental Specifications
Temperature
Operating Range
-25 to +65 deg $C$
Storage Range
Shock

Vibration

$$
-55 \text { to }+100 \operatorname{deg} C
$$

MIL-STD-202 Method 213, Condition D, 500G (non oper)
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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Electromechanical Relay Switches Technical Data

Typical Performance Data



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[^2]Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451
Sales@Pasternack.com •Techsupport@Pasternack.com

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Transfer Electromechanical Relay Failsafe Switch DC to $12.4 \mathrm{GHz}, 2 \mathrm{M}$ Lifecycles, N, 50 Watts, 12V, 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-50w-12v-n-pe71s6494-p.aspx


#### Abstract

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.





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