Transfer Electromechanical Relay Failsafe Switch, DC to 12 GHz , up to 600 W , 2M Lifecycles, 12 V , Indicators, TTL, Suppression Diodes, N

## Features

- Transfer Electromechanical Relay S witch
- DC to 12 GHz Frequency Range
- Failsafe Actuator
- TTL Logic Control
- Suppression Diodes
- Indicators
- 2M Lifecycle Rating
- Insertion Loss 0.2 dB typ
- Isolation > 80 dB typ
- VSWR as low as 1.2:1 max
- Microwave Radio Systems
- Military \& Commercial Communication Systems
- Research \& Development
- SATCOM
- +12 Volt DC Bias
- Solder Terminal Pins for DC Command Control
- N Type Female Connectors
- $-25^{\circ} \mathrm{C}$ to $+65^{\circ} \mathrm{C}$ Operating Temperature
- Up to 600 WattAverage Power Handling
- 50 Ohm Design
- Hot S witching Capability - Consult F actory
- S-P arameter Data available upon request
- Rugged Design meets Mil-STD-202 Test Conditions


## Applications <br> pications

- Aerospace \& Defense
- Test \& Measurement
$\qquad$
- Wireless Communications
- Enterprise
- IoT


## Description

The PE71S6463 is a Transfer electromechanical relay switch that operates across a wide frequency range of DC to 12 GHz and can handle up to 600 Watts of Average power in a break before make condition. The 500 hm design features a Failsafe Actuator and is rated for 2 million lifecycles. Additional features include TTL control logic, suppression diodes which limit voltage spikes or reverse current, and indicators Impressive typical performance includes 0.2 dB insertion loss and isolation greater than 80 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 terminal pins for DC command control fuctions. And for highly reliable operation, the model is guaranteed to meet MIL-STD-202 environmental test conditions for shock and random vibration.

## Electrical Specifications

| Switch Type | DPDT |
| :--- | :--- |
| Actuator Type | Failsafe |
| Switching Sequence | Break Before Make |
| Actuator Options | Indicators, TTL Logic |
| TTL Control | on: 2.4 to 5.5 Volts |
|  | off: 0 to 0.8 Volts |


| Description | Minimum | Typical | Maximum | Units |
| :--- | :---: | :---: | :---: | :---: |
| Frequency Range | DC |  | 12 | GHz |
| Impedance |  | 50 |  | Ohms |
| Operating Voltage | 11 | 12 | 13 | Volts |
| Actuating Set Current @ 12 Volts |  |  | 800 | mA |
| VSWR |  | $1.4: 1$ | $1.7: 1$ |  |

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 S witch, DC to 12 GHz , up to 600W, 2M Lifecycles, 12V, Indicators, TTL, Suppression Diodes, N PE71S6463

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## Electromechanical Relay Switches Technical Data

PE71S6463

| Insertion Loss | 0.2 | 0.7 | dB |  |
| :--- | :---: | :---: | :---: | :---: |
| Isolation | 60 | 80 |  | dB |
| Input Power (CW) | 1 | kWatts |  |  |
| Switching Time | 20 | ms Max |  |  |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Frequency Range | DC to 2 | 2 to 4 | 4 to 8 | 8 to 12 | GHz |  |
| VSWR, Max | $1.2: 1$ | $1.4: 1$ | $1.5: 1$ | $1.7: 1$ |  |  |
| Insertion Loss, Max | 0.2 | 0.4 | 0.5 | 0.7 | dB |  |
| Isolation, Min | 80 | 80 | 70 | 60 | dB |  |

Mechanical Specifications

## Size

Length
Width/Diameter
2.52 in [64.01 mm]
1.75 in [44.45 mm]

Height
1.75 in [44.45 mm]

Finish
Package Type
NICKEL
Connectorized
Operating Life
2,000,000 Cycles
Connectors
RF Connector Type
N Female

Environmental Specifications
Temperature
Operating Range
-25 to +65 deg $C$
Storage Range
Humidity
-55 to +100 deg $C$

Shock
Moisture resistant or immersion sealing available
MIL-STD-202 Method 213, Condition D, 500G (non oper)
MIL-STD-202 Method 214, Condition D, 10G RMS (non oper)

Compliance Certifications (see product page for current document)

## Plotted and Other Data

Notes:

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## Typical Performance Data




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## Electromechanical Relay Switches Technical Data

Transfer Electromechanical R elay F ailsafe S witch, DC to 12 GHz , up to $600 \mathrm{~W}, 2 \mathrm{M}$ Lifecycles, 12 V , Indicators, TTL, Suppression Diodes, N from Pasternack Enterprises has same day shipment for domestic and International orders. Our R F, 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/dpdt-electromechanical-relay-failsafe-switch-12-ghz-1000w-12v-indicators-ttl-n-pe71s6463-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.

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