



Transfer Terminated Electromechanical Relay  
 Switch DC to 18 GHz, SMA, 240 Watts, 28V Control  
 with Indicators, Latching, Normally Open

**TECHNICAL DATA SHEET** PE71S6063

The PE71S6063 is a Double POLE THREE THROW TERMINATED RF COAXIAL RELAY SWITCH that operates from DC TO 18 GHz. The Switch has a 28 VDC FAILSAFE ACTUATOR and POSITION INDICATOR CIRCUITRY. The Switch has SMA RF CONNECTORS and operates from -40 Deg C to +85 Deg C.

**Features**

- Double Pole Three Throw Terminated Relay Switch
- DC to 18 GHz Frequency Range
- 2M Operating Life
- 100 Watt Avg Power Min
- -40 to +85 Deg C Operating Temperature
- Insertion Loss 0.5 dB Max
- VSWR 1.5:1 Max

**Applications**

- High Performance Relay Switch
- Military Communications
- Communications Systems
- Test & Measurement

**Electrical Specifications**

Frequency Range	DC to 18 GHz
Impedance	50 Ohms
Actuator	Indicators, Latching, Normally Open
Actuating Current	160 mA
Control Voltage	28 Volts / Negative Common
TTL Inputs (E): - High Level	2.2 to 5.5 Volts / 0.8 mA at 5.5 Volts
- Low Level	0 to 0.8 Volts / 0.02 mA at 0.8 Volts

**RF Characteristic**

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Frequency Range	DC to 3	3 to 8	8 to 12.4	12.4 to 18		GHz
VSWR	1.2:1	1.3:1	1.4:1	1.5:1		
Insertion Loss	0.2	0.3	0.4	0.5		dB
Isolation	80	70	60	60		dB
Average Power @25 °C	240	150	120	100		Watts

**Mechanical Specifications**

Connector Type	SMA Female
Operating Life	2,000,000
Terminals	Solder Pins
Switching Time (nominal voltage, 25°C)	<10 ms Typ
Construction	Splashproof

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Transfer Terminated Electromechanical Relay Switch DC to 18 GHz, SMA, 240 Watts, 28V Control with Indicators, Latching, Normally Open PE71S6063](#)



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**Environmental Specifications**

**Temperature**

Operating Range

-40 to +85 deg C

Storage Range

-55 to +85 deg C

Weight

0.22 lbs [99.79 g]

**Compliance Certifications** (visit [www.Pasternack.com](http://www.Pasternack.com) for current document)

RoHS Compliant

**Plotted and Other Data**

Notes:

- Values at +25 °C, sea level
- ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in approved ESD Workstation



Transfer Terminated Electromechanical Relay Switch DC to 18 GHz, SMA, 240 Watts, 28V Control with Indicators, Latching, Normally Open from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: <http://www.pasternack.com/sma-transfer-terminated-electromechanical-relay-switch-18-ghz-indicators-pe71s6063-p.aspx>

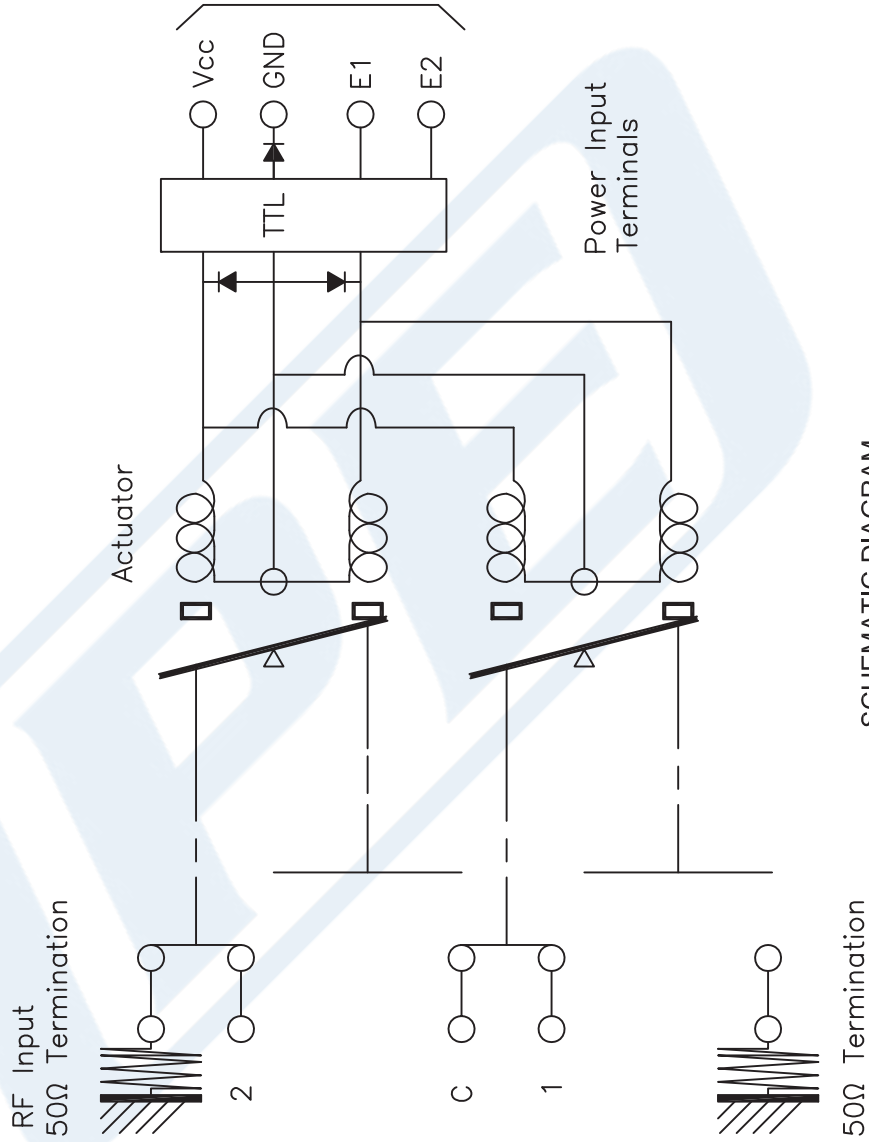
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.



# PE71S6063 CAD Drawing

Transfer Terminated Electromechanical Relay Switch DC to 18 GHz, SMA,  
240 Watts, 28V Control with Indicators, Latching, Normally Open

Voltage	RF Continuity
E1=1   E2=0	C ↔ 1 / 2 ↔ 50Ω
E1=0   E2=1	C ↔ 2 / 1 ↔ 50Ω
E1=0   E2=0	Memory
E1=1   E2=1	Forbidden



SCHEMATIC DIAGRAM

DWG TITLE

**PE71S6063**

- NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
  3. DIMENSIONS ARE IN INCHES [mm].

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SCALE N/A

SIZE A

150