



SP6T Electromechanical Relay Latching Switch, Terminated, DC to 40 GHz, 3W, 12V Self Cut Off, TTL, Indicators, Reset, 2.92mm

## Electromechanical Relay Switches Technical Data Sheet

PE71S6323

### Features

- SP6T
- DC to 40 GHz
- 2.92mm Female
- +12 Volt
- TTL Logic Control
- Break Before Make
- Latching Actuator
- Self Cut Off
- Indicator Circuitry
- Terminated
- Reset

### Applications

- Test & Measurement
- Communications System
- Instrumentation
- Military Communications
- Automatic Communication Test Sets
- Sub-System Testing

### Description

The PE71S6323 is a Single Pole Six Throw (SP6T) 50 Ohm Terminated RF Coaxial Relay Switch that operates from DC to 40 GHz and can handle up to 3 Watts of CW input power at 40 GHz, in a Break Before Make condition. The design features a Latching Actuator with indicators, and is rated for 1M Life Cycles. Insertion Loss is specified from 0.2 dB typ and Isolation from 70 dB min at 6 GHz, with +12 Vdc operating voltage. Performance is guaranteed over -35°C to +85°C. The package interface uses solder terminals and 2.92 mm female connectors.

### Electrical Specifications

Switch Type	SP6T, Terminated
Actuator Type	Latching
Switching Sequence	Break Before Make
Actuator Options	Self Cut Off, TTL Logic, Indicators, Reset
TTL Control	on: 2.4 to 5 Volts off: 0 to 0.8 Volts

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Volts		480		mA
Insertion Loss			1	dB
Input Power (CW) (40 GHz)			3	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: [SP6T Electromechanical Relay Latching Switch, Terminated, DC to 40 GHz, 3W, 12V Self Cut Off, TTL, Indicators, Reset, 2.92mm PE71S6323](#)



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### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12	12 to 18	18 to 26.5	26.5 to 40	GHz
VSWR, Max	1.3:1	1.4:1	1.5:1	1.7:1	2:1	
Insertion Loss, Typ	0.2	0.45	0.55	0.7	1	dB
Isolation, Min	70	60	60	55	50	dB

### Mechanical Specifications

#### Size

Length 2.25 in [57.15 mm]

Width/Diameter 2.25 in [57.15 mm]

Height 2.38 in [60.45 mm]

Weight 0.6 lbs [272.16 g]

Body Material and Plating Aluminum, Chem Film

Package Type Connectorized

Operating Life 1,000,000 Cycles

#### Connectors

RF Connector Type 2.92mm Female

RF Connector Contact Material and Plating Copper, Gold

RF Connector Body Material and Plating Passivated Stainless Steel

Control Connector Solder Pin

### Environmental Specifications

#### Temperature

Operating Range -35 to +85 deg C

ESD Sensitivity ESD Sensitive Material, Transport material in Approved ESD bags. Handle only in ESD Workstation.



**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

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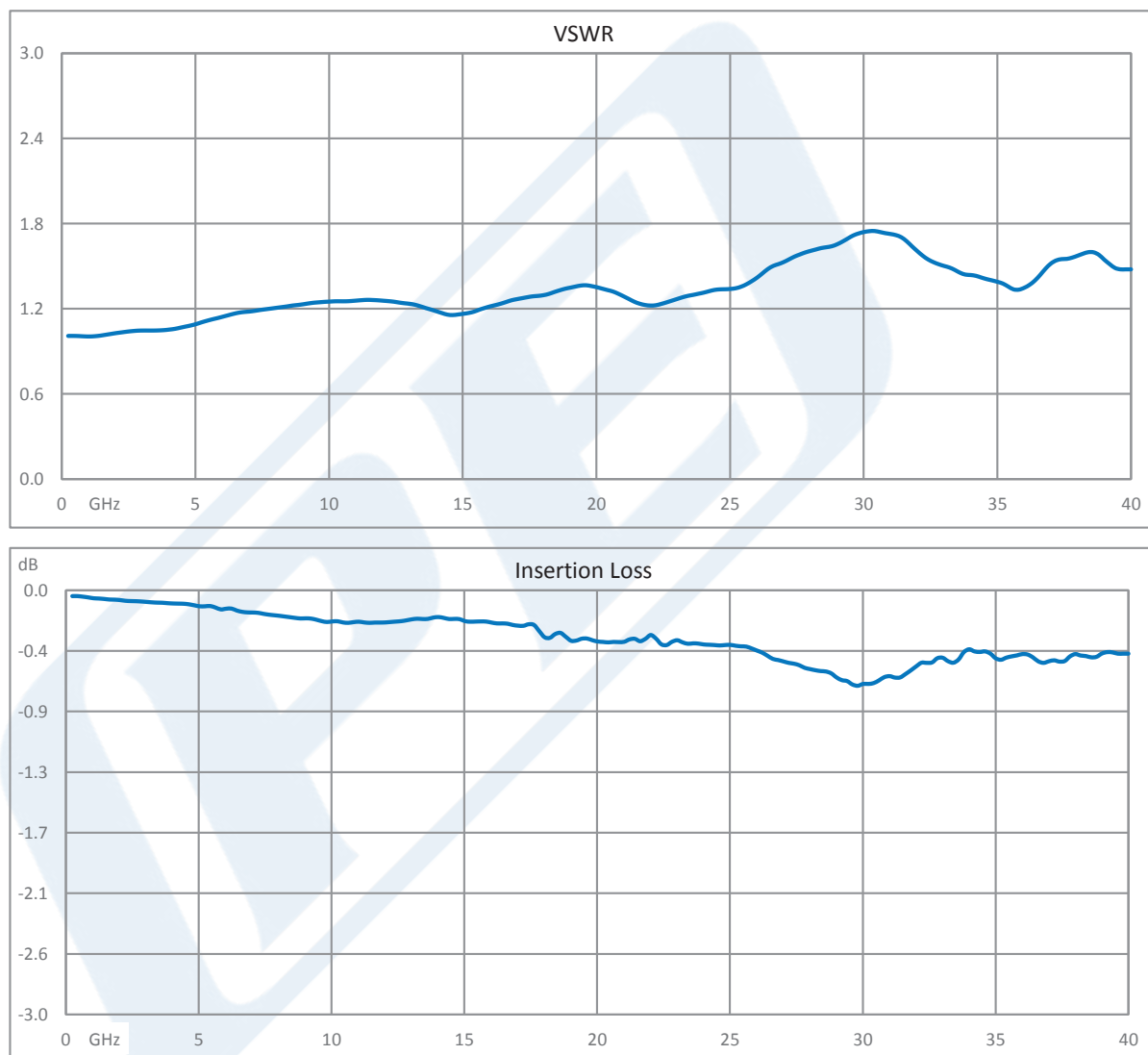


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### Typical Performance Data



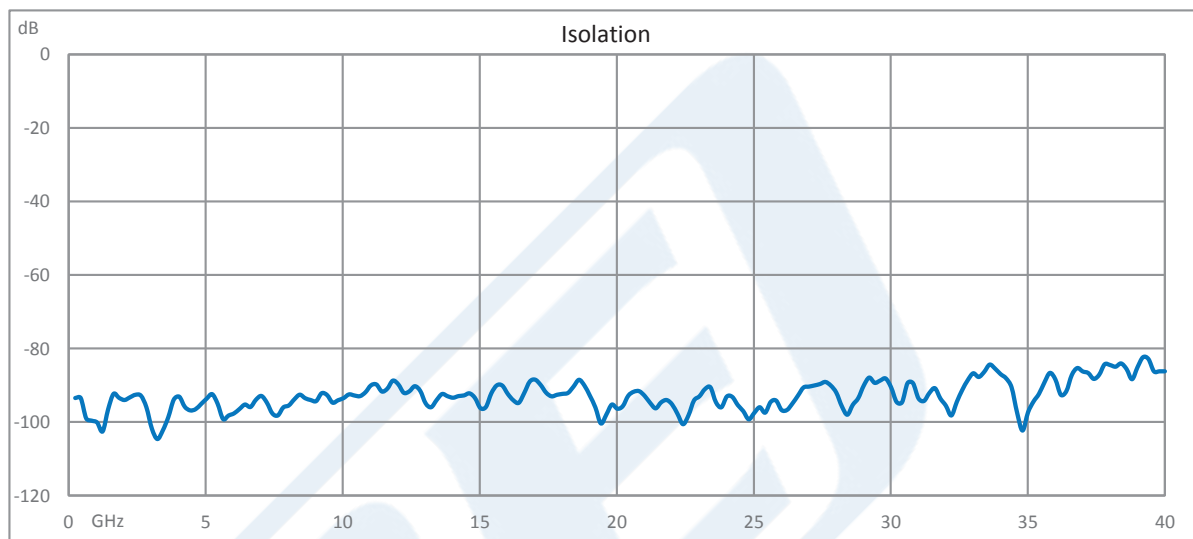
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SP6T Electromechanical Relay Latching Switch, Terminated, DC to 40 GHz, 3W, 12V Self Cut Off, TTL, Indicators, Reset, 2.92mm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SP6T Electromechanical Relay Latching Switch, Terminated, DC to 40 GHz, 3W, 12V Self Cut Off, TTL, Indicators, Reset, 2.92mm PE71S6323](https://www.pasternack.com/2.92mm-sp6t-electromechanical-relay-latching-switch-self-cut-off-ttl-indicators-terminated-pe71s6323-p.aspx)

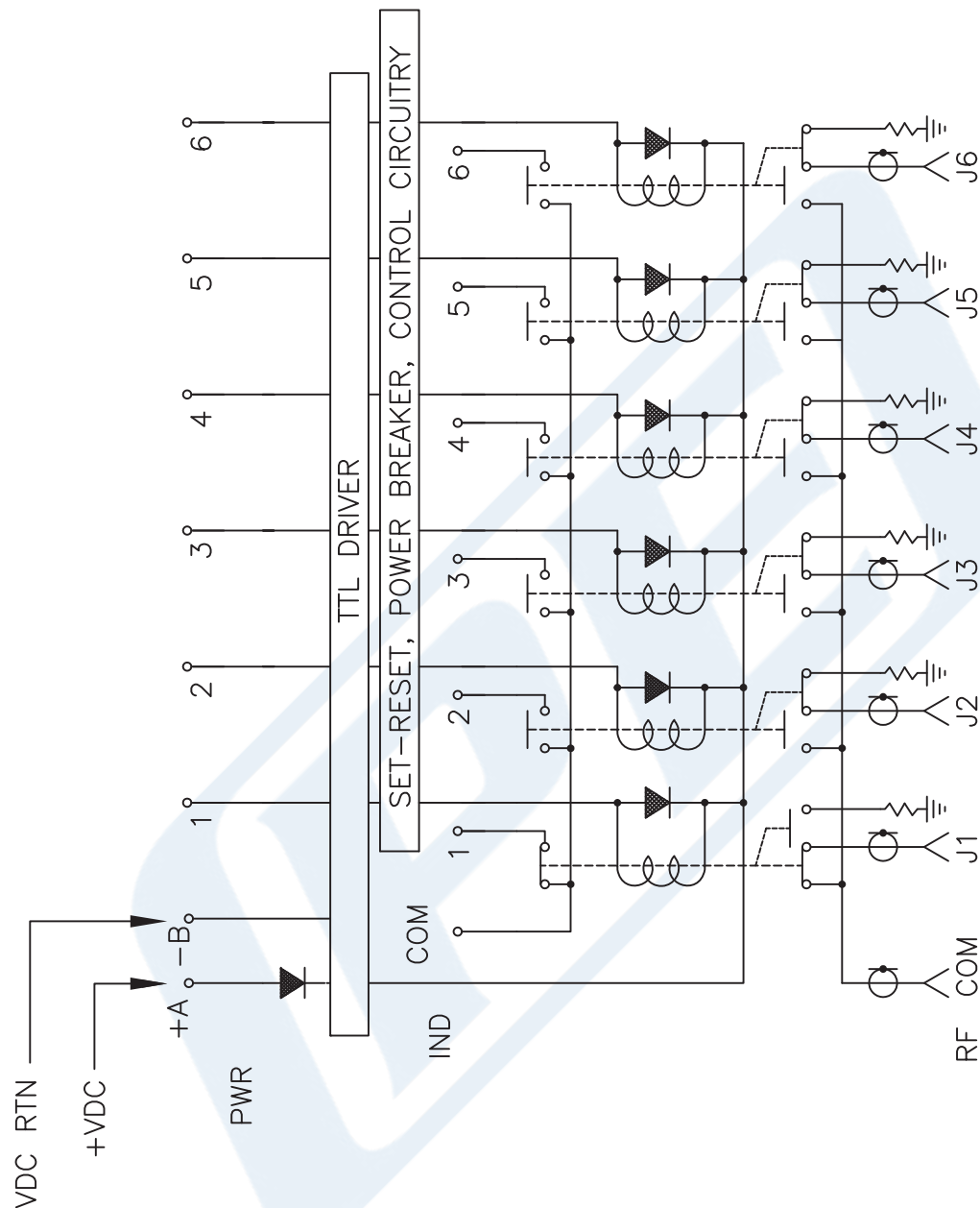
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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



PE71S6323 CAD Drawing

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SCHEMATIC LATCHING SHOWN IN POSITION 1

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].

DWG TITLE  
**PE71S6323**

FSCM NO. 53919

CAD FILE 101816

SIZE A

2233

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