



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

Electromechanical Relay Switches Technical Data Sheet

PE71S6321

Features

- SP6T
- DC to 40 GHz
- 2.92mm Female
- +12 Volt
- 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 PE71S6321 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, Indicators, Reset
Polarity	Positive Common

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, Indicators, Reset, 2.92mm PE71S6321](#)



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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	0.583 lbs [264.44 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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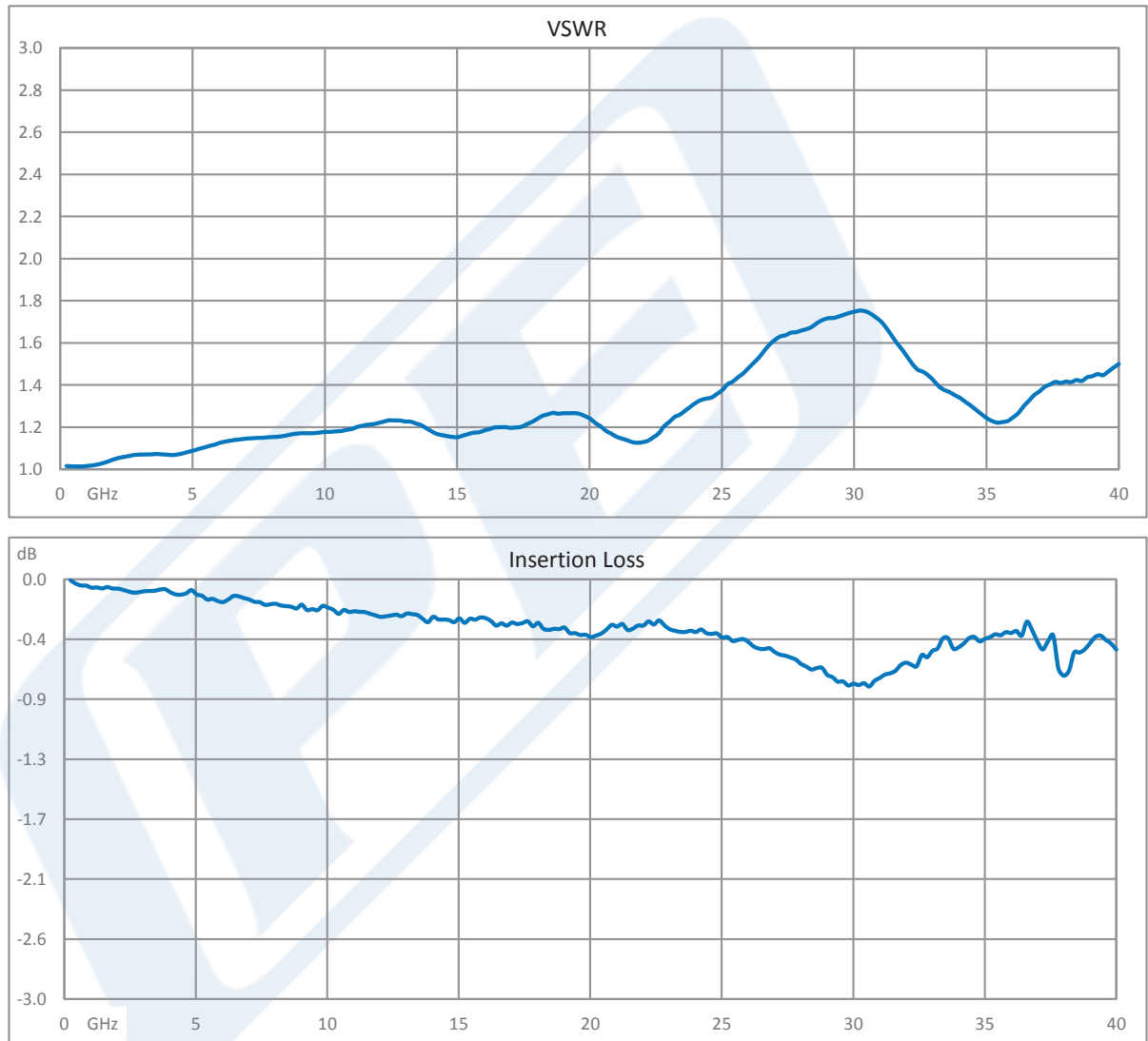


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Typical Performance Data



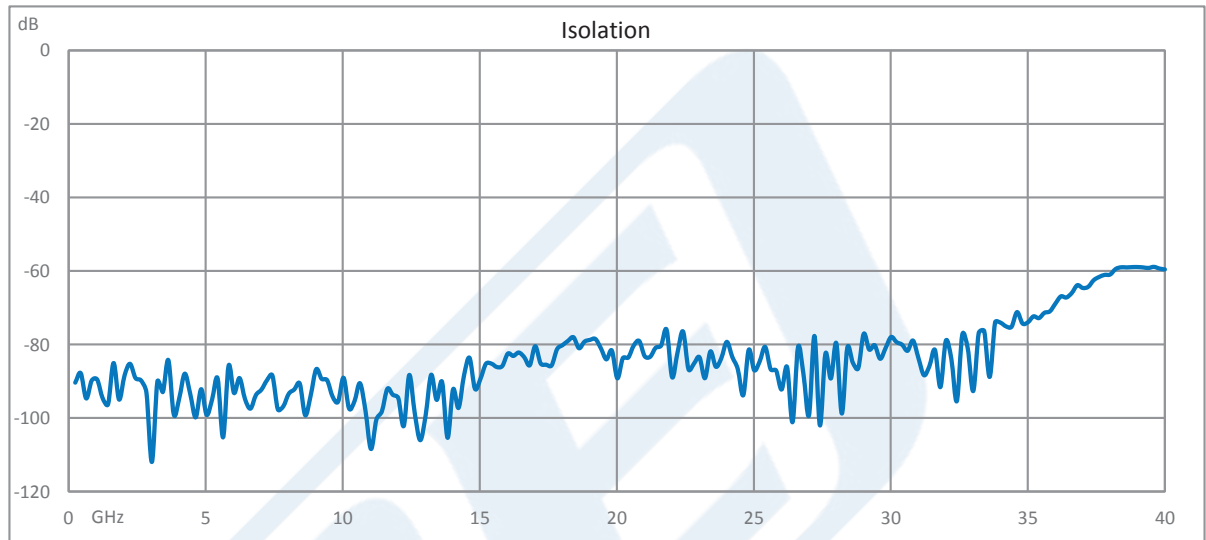
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SP6T Electromechanical Relay Latching Switch, Terminated, DC to 40 GHz, 3W, 12V Self Cut Off, Indicators, Reset, 2.92mm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products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

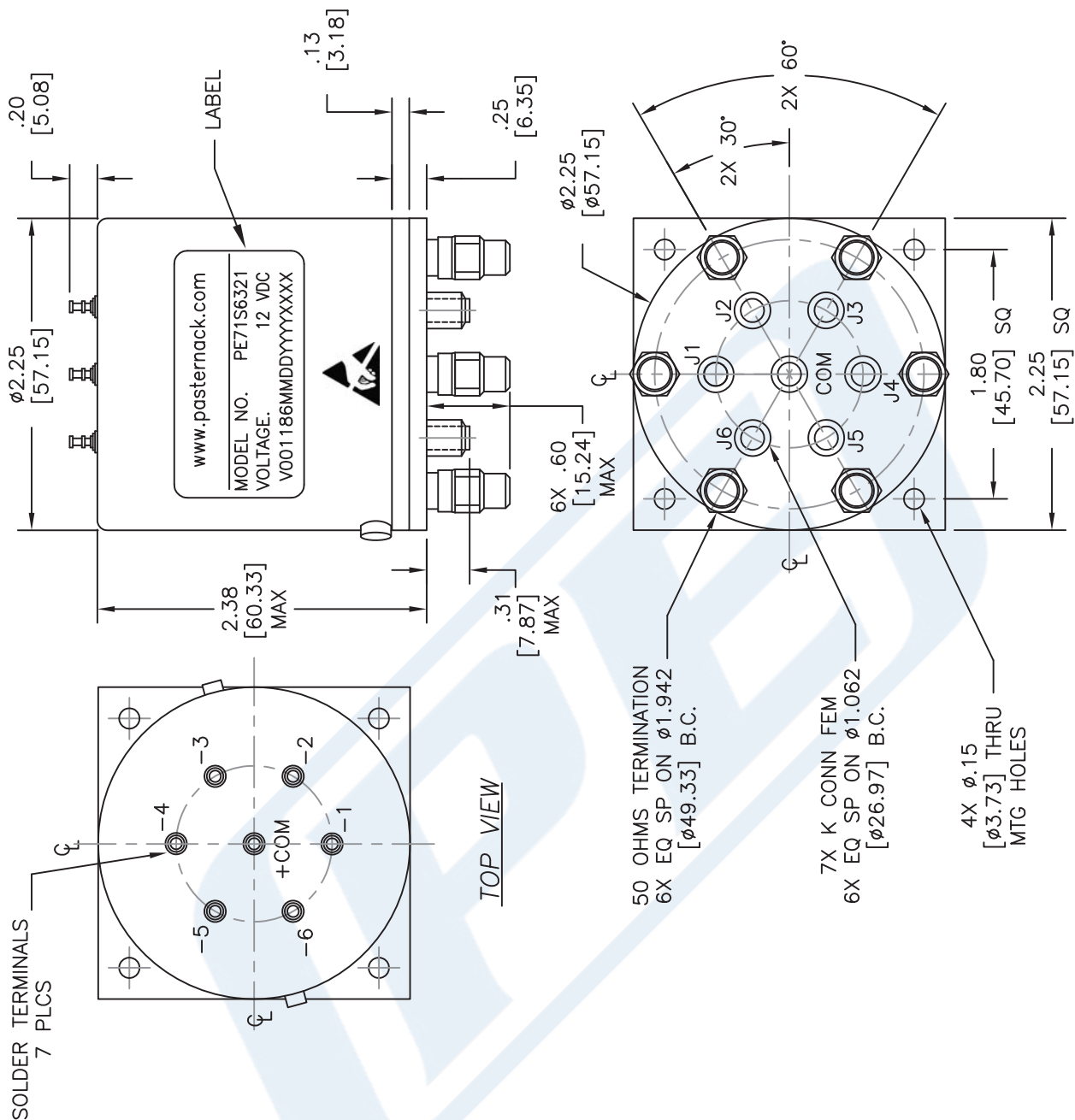
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

PE71S6321 CAD Drawing

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		ANGLES	
DECIMALS	(0.76)	±1°	FRACTIONS
.XX ± .03	(0.254)	±1/16	
HOLE DIAMETER	TOLERANCE		
.0135 TO .125	+0.004 TO -0.001		
(0.343 TO 3.175)	(+0.102 TO -0.025)		
.126 TO .250	+0.005 TO -0.001		
(3.200 TO 6.350)	(+0.127 TO -0.025)		
.251 TO .500	+0.006 TO -0.001		
(6.375 TO 12.700)	(+0.152 TO -0.025)		
.501 TO .750	+0.008 TO -0.001		
(12.725 TO 19.050)	(+0.203 TO -0.025)		
.751 TO 1.000	+0.010 TO -0.001		
(19.075 TO 25.400)	(+0.254 TO -0.025)		
1.001 TO 2.000	+0.012 TO -0.001		
(25.425 TO 50.800)	(+0.305 TO -0.025)		

* THESE DIMENSIONS AND TOLERANCES SUPERSEDE NOTE #1 ON TITLE BLOCK.

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
PE71S6321

FSCM NO. 53919

CAD FILE 101916

SCALE N/A

SIZE A

2233

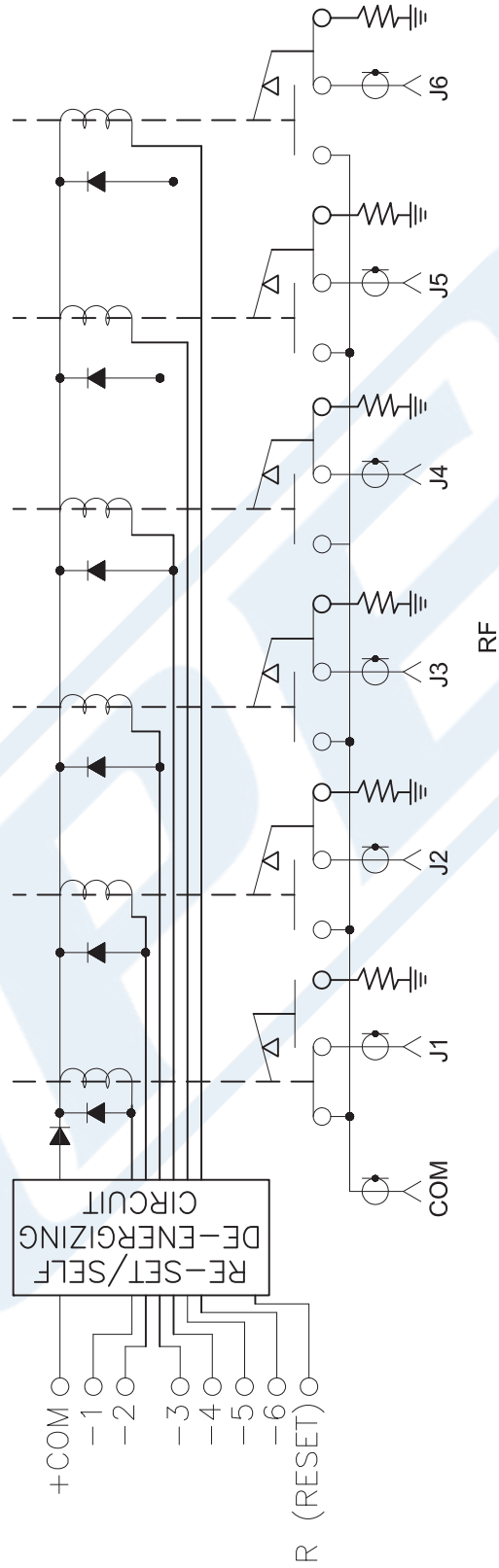
PE PASTERNAK®
 THE ENGINEER'S RF SOURCE

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SCHEMATIC LATCHING SHOWN IN POSITION 1

DWG TITLE

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