



SMA RF Relay SPDT Switch From DC to 18 GHz Rated To 35 Watts And 10 Volts To 14 Volts With I, L, S Features

TECHNICAL DATA SHEET

PE7144

SMA RF Relay SPDT Switch From DC to 18 GHz Rated To 35 Watts And 10 Volts To 14 Volts With I, L, S Features

Configuration

RF Connector	SMA Female
RF Connector Specification	MIL-C-39012
Control Connector	Solder Terminals
Frequency Range, GHz	DC to 18
Design	SPDT

Electrical Specifications

Frequency Range, GHz	DC to 18
Impedance, Ohms	50
Maximum Input Power, Watts	35
Maximum Input VSWR	1.5:1
Maximum Insertion Loss, dB	0.5
Minimum Isolation, dB	60
Maximum Speed, ms	15
Control Voltage, Volts	10
Actuating Current, mA	300
Indicator Voltage, Volts	14

Frequency 1

Range, GHz	DC to 4
Insertion Loss, dB	0.2
VSWR	1.2
Maximum Input Power, Watts	85
Minimum Isolation, dB	80

Frequency 2

Range, GHz	4 to 8
Insertion Loss, dB	0.3
VSWR	1.3:1
Maximum Input Power, Watts	55
Minimum Isolation, dB	70

Frequency 3

Range, GHz	8 to 12.4
Insertion Loss, dB	0.4
VSWR	1.4:1
Maximum Input Power, Watts	45
Minimum Isolation, dB	60

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA RF Relay SPDT Switch From DC to 18 GHz Rated To 35 Watts And 10 Volts To 14 Volts With I, L, S Features PE7144](#)

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.





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Frequency 4

Range, GHz	12.4 to 18
Insertion Loss, dB	0.5
VSWR	1.5:1
Maximum Input Power, Watts	35
Minimum Isolation, dB	60

Mechanical Specifications

Temperature

Operating Range, deg C	-40 to +85
Storage Range, deg C	-55 to +100

Size

Length, in [mm]	1.34 [34.04]
Width, in [mm]	2.13 [54.1]
Height, in [mm]	0.5 [12.7]
Weight, lbs [g]	0.088 [39.92]
Housing Material and Plating	Aluminum, Black Anodized

RF Connector

Contact Material and Plating	Beryllium Copper, Gold
Body Material and Plating	Passivated Stainless Steel

Control Connector

Contact Material and Plating	Iron Nickel, Tin
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Compliance Certifications (visit www.Pasternack.com for current document)

Plotted and Other Data

Notes:	Values at 25 °C, sea level
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SMA RF Relay SPDT Switch From DC to 18 GHz Rated To 35 Watts And 10 Volts To 14 Volts With I, L, S Features from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

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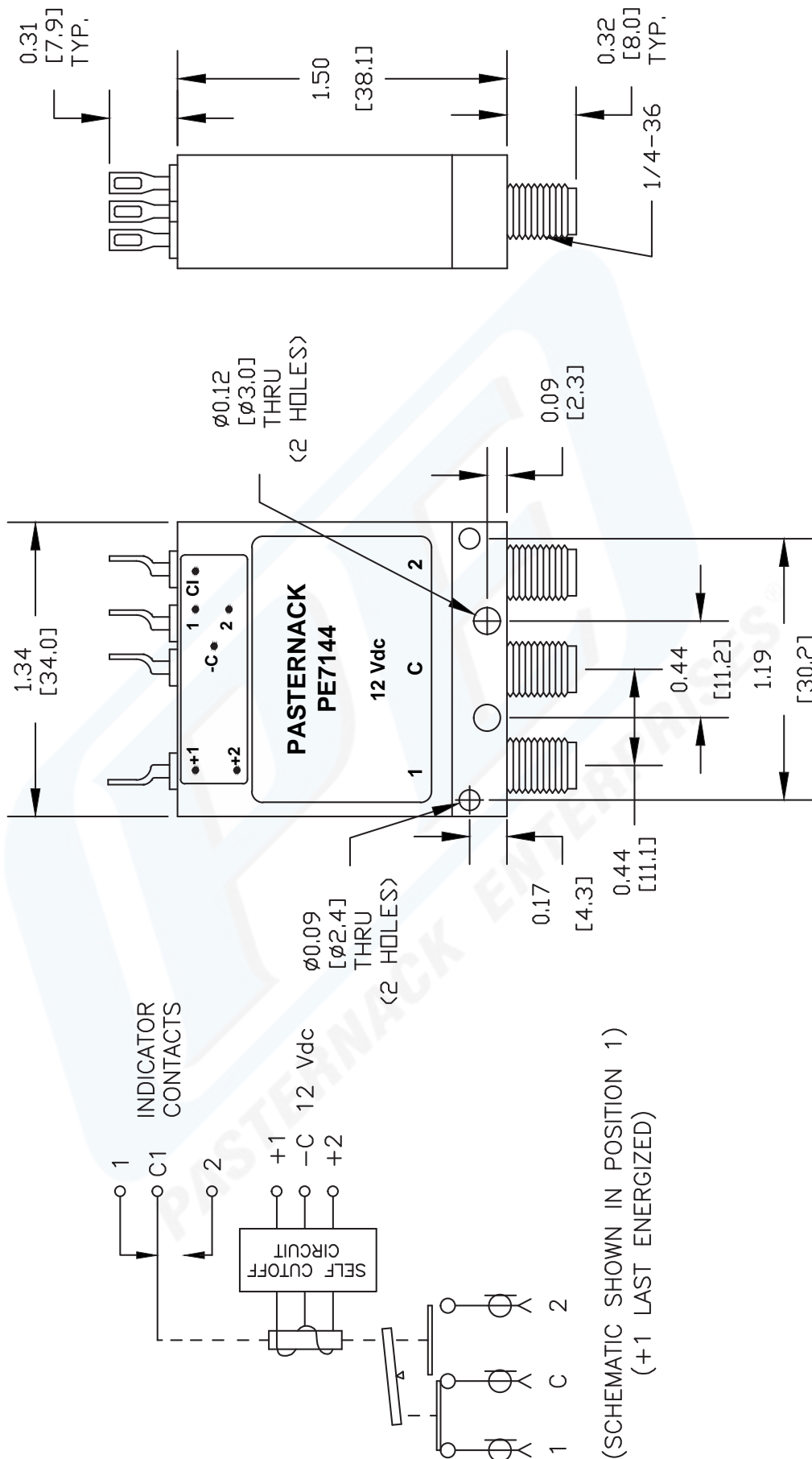
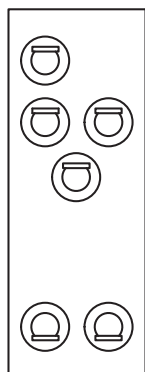
URL: <http://www.pasternack.com/sma-electromechanical-spd-t-switch-18ghz-35watts-10-14volts-i-l-s-pe7144-p.aspx>

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PE7144 CAD Drawing

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INDICATOR CONTACTS

1

C1

2

SELF CUTOFF

+1

-C

+2

12 Vdc

1

C

2

1

C

2

(SCHEMATIC SHOWN IN POSITION 1)
(+1 LAST ENERGIZED)

DWG TITLE

PE7144

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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FSCM NO. 53919

CAD FILE 030309

SCALE N/A

SIZE A

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