



SPDT SMA Manual Toggle Switch, DC to 22 GHz, Rated to 50 Watts

Manual Switches Technical Data Sheet

PE7SM1000

Features

- SPDT
- Manual Toggle Switch
- 55 dB min Isolation
- DC to 22 GHz Frequency Range
- Nickel Plated Aluminum Housing
- Low VSWR
- SMA Female Connectors

Applications

- Test and Measurement
- Military Communications
- Commercial Communications
- Wireless Communications
- SATCOM

Description

PE7SM1000 is a manual single pull double throw (SPDT) RF coaxial Switch, in a break before make configuration with manual toggle actuator. This unit operates across the DC to 22 GHz Frequency Range with a max VSWR of 1.6:1 and a max Insertion Loss of 0.6 dB. It features a electroless Nickel plated Aluminum housing with passivated stainless steel SMA female connectors and Gold plated beryllium Copper contacts.

Electrical Specifications

Design	SPDT
Actuator Type	Manual
Selector Type	Toggle
RF Connector Type	SMA Female
RF Connector Specification	MIL-PRF-39012

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		22	GHz
Impedance		50		Ohms
Input Power (CW)			50	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 8	8 to 12.4	12.4 to 18	18 to 22	GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1	1.6:1	
Insertion Loss, Max	0.2	0.3	0.4	0.8	0.6	dB
Isolation, Min	80	70	60	60	55	dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SPDT SMA Manual Toggle Switch, DC to 22 GHz, Rated to 50 Watts PE7SM1000](#)



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Mechanical Specifications

Size

Length	1.5 in [38.1 mm]
Width/Diameter	0.5 in [12.7 mm]
Height	1.53 in [38.86 mm]
Weight	0.074 lbs [33.57 g]
Body Material and Plating	Aluminum, Nickel

Connectors

RF Connector Type	SMA Female
RF Connector Specification	MIL-PRF-39012
RF Connector Contact Material and Plating	Beryllium Copper, Gold

Environmental Specifications

Temperature

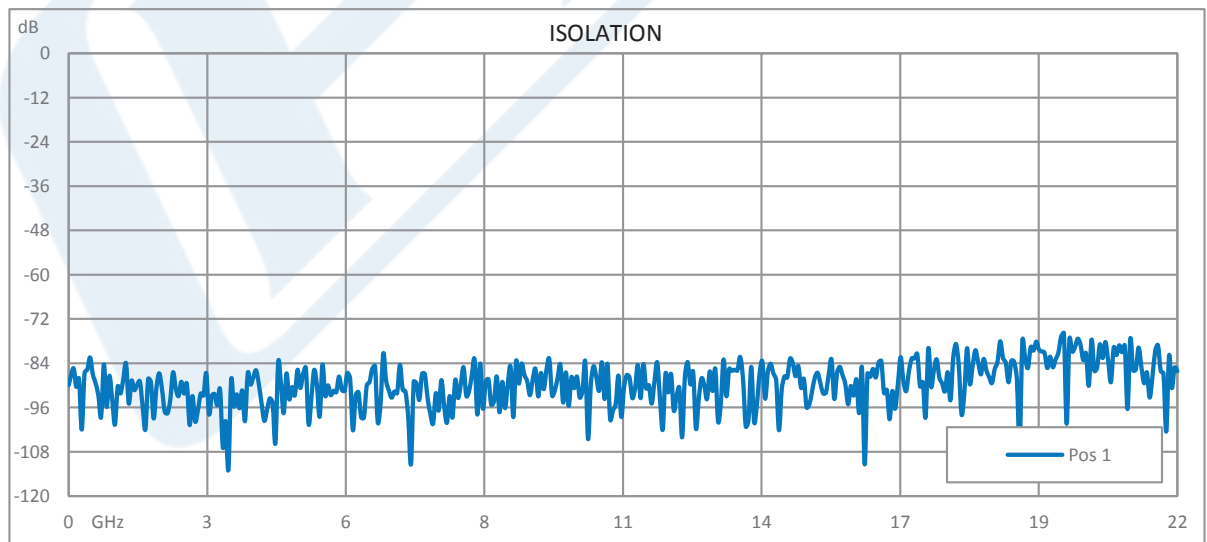
Operating Range	-35 to +85 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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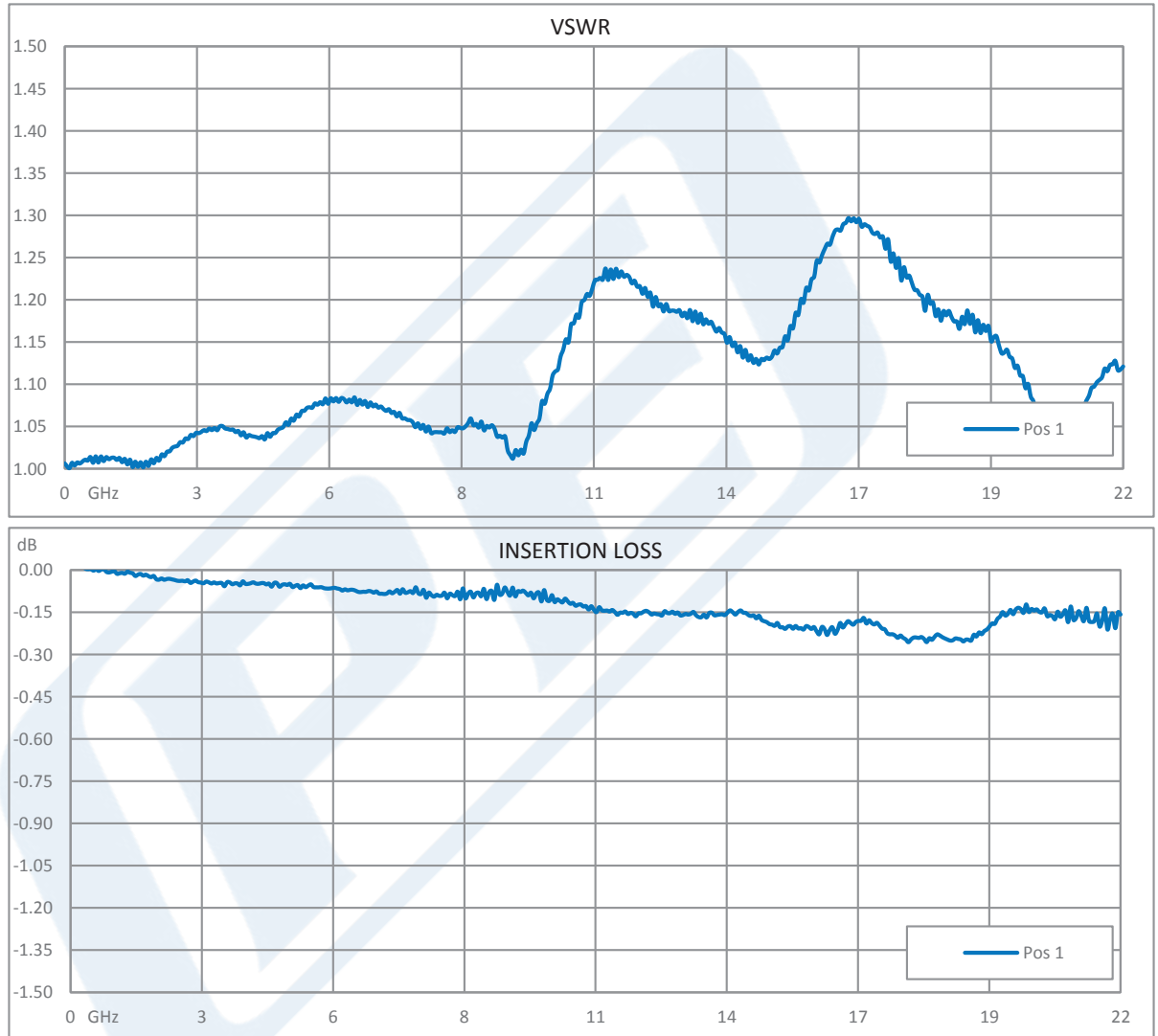




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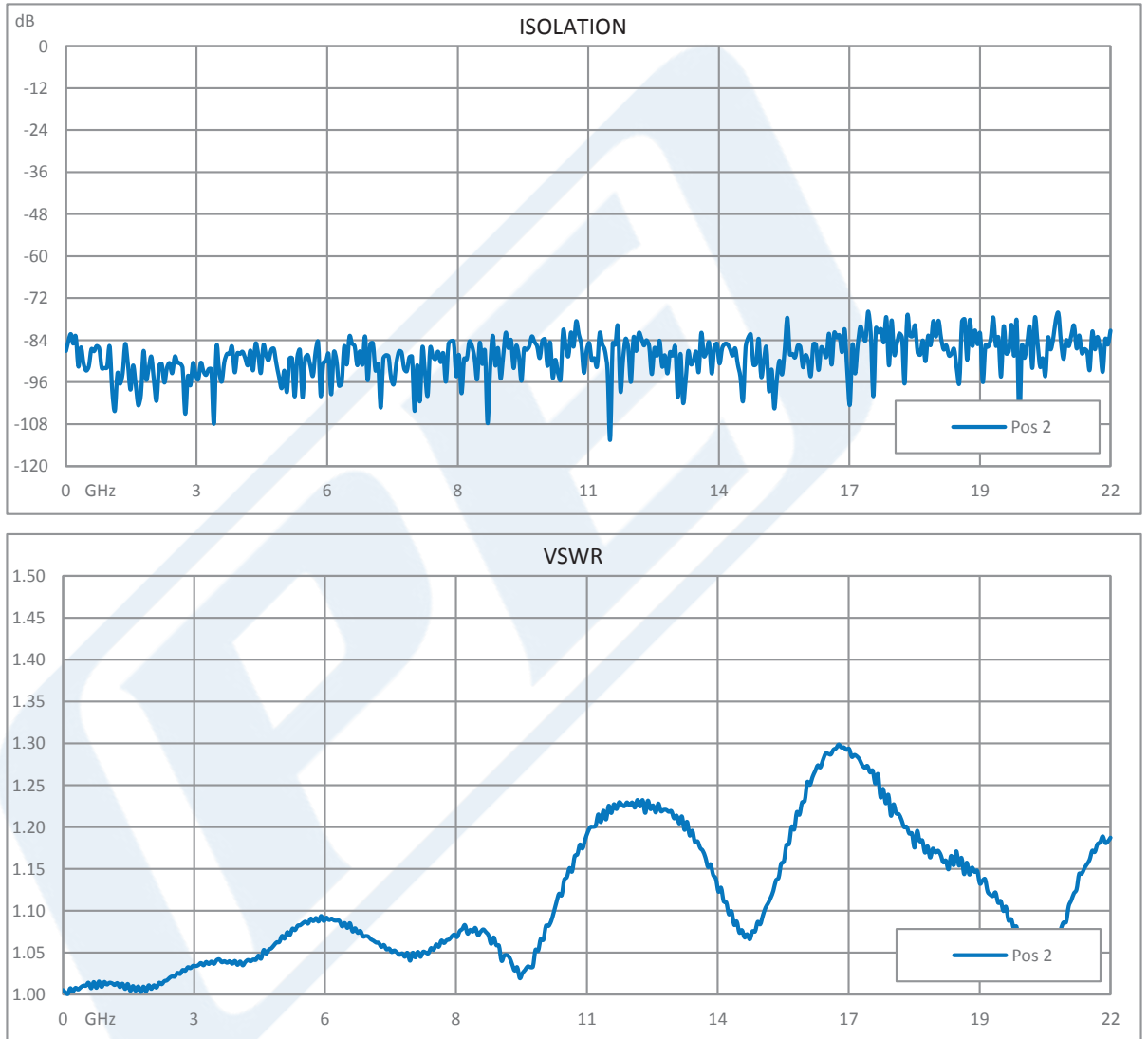




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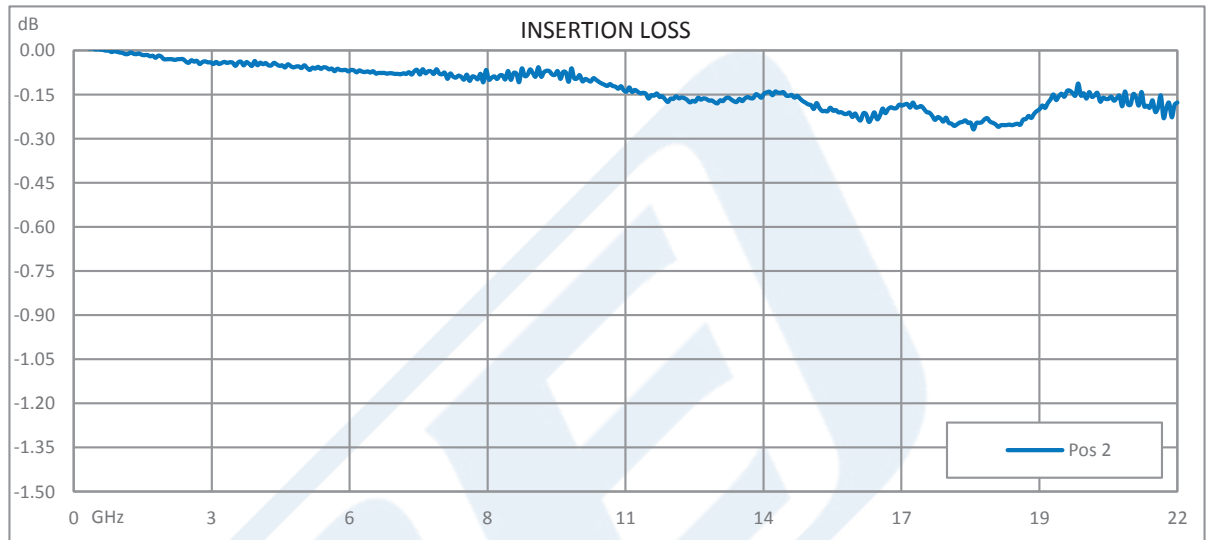




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SPDT SMA Manual Toggle Switch, DC to 22 GHz, Rated to 50 Watts from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

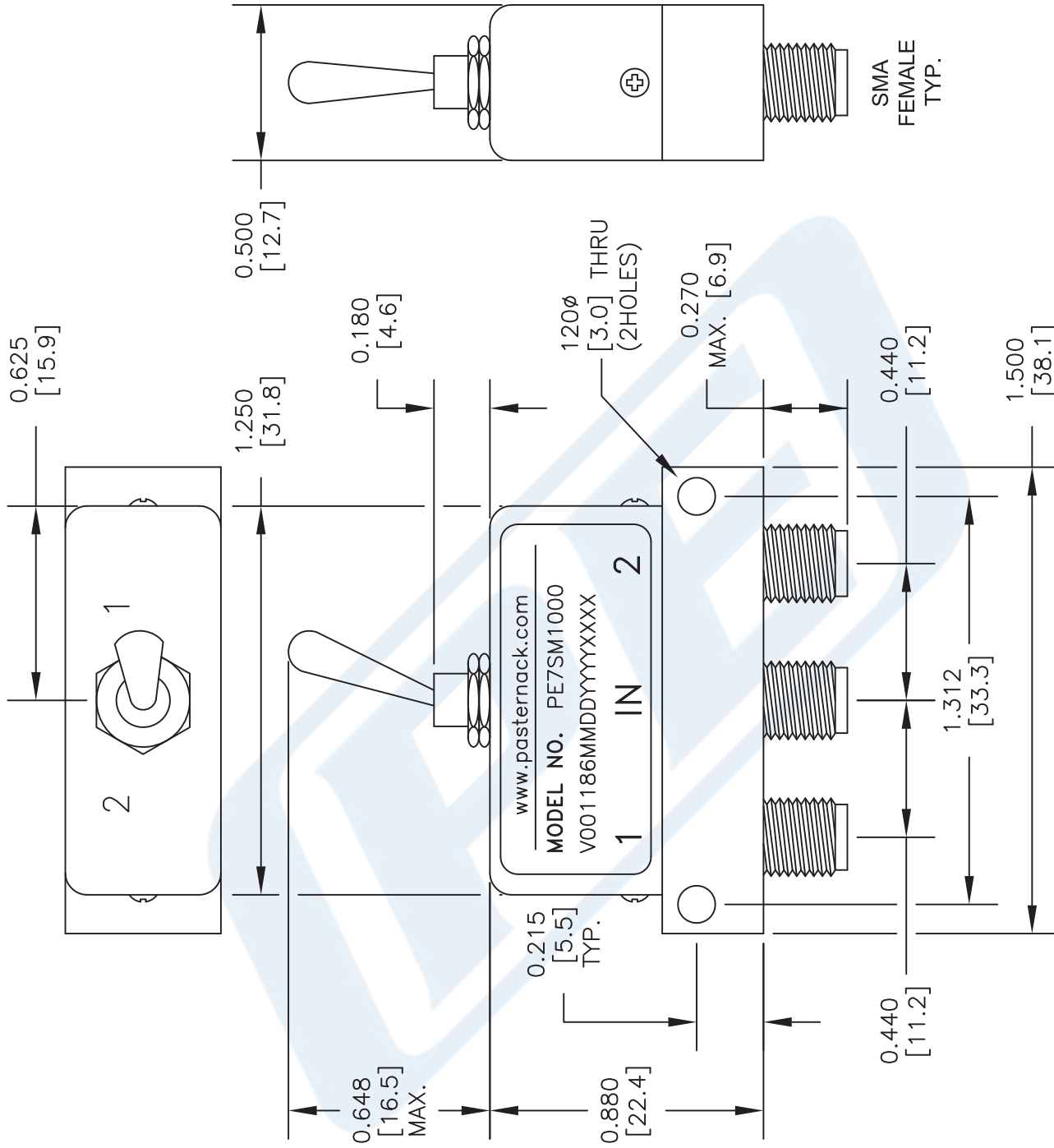
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URL: <https://www.pasternack.com/0-port-sma-manual-coaxial-switch-surge-protection-dc-22-ghz-50watts-pe7sm1000-p.aspx>

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.

PE7SM1000 CAD Drawing

SPDT SMA Manual Toggle Switch, DC to 22 GHz, Rated to 50 Watts



STANDARD TOLERANCES
 .X ±0.2
 .XX ±0.1
 .XXX ±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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
PE7SM1000

CAGE CODE 53919

SCALE N/A

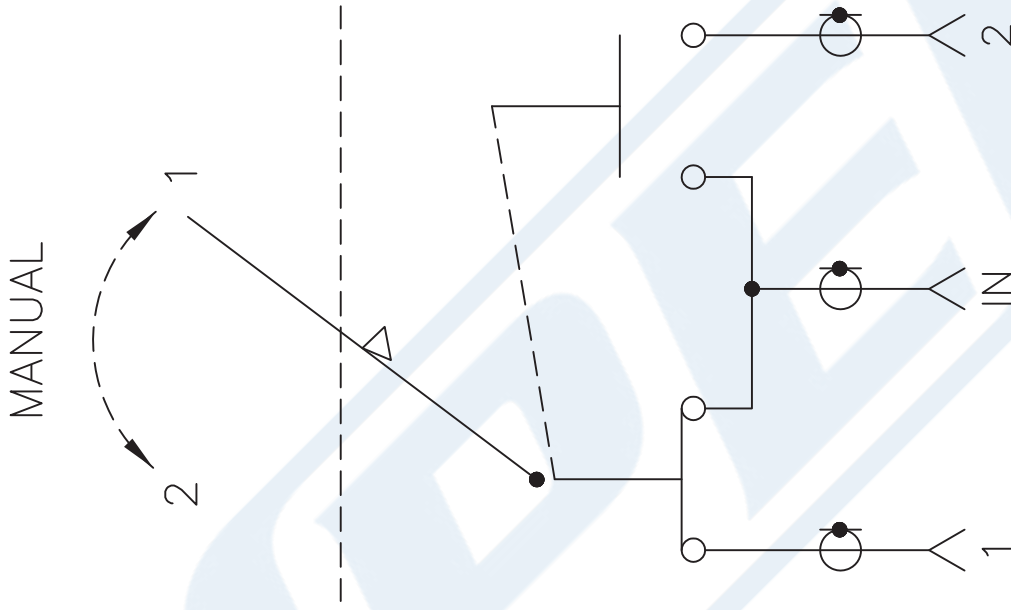
SIZE A

2233

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PE7SM1000 CAD Drawing

SPDT SMA Manual Toggle Switch, DC to 22 GHz, Rated to 50 Watts



SCHMATIC SHOWN IN POSITION 1

STANDARD TOLERANCES

.X ±0.2
.XX ±0.1
.XXX ±0.05

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CAD FILE 012317

SCALE N/A

SIZE A

2233