



Electromechanical Relay Switches Technical Data Sheet

PE7148

 SPDT Switch DC to 4GHz Frequency Range 1M Cycles Min Lifetime Failsafe Switch Break before Make 		 Insertion Lc VSWR 1.3: +12 Vdc Op 	Deg C Operating Ter oss 0.25 dB Max 1 Max perating Voltage odling 275 Watts	mperature
Applications				
Test & Measurement	 Instrumentation 	ı		
Description				
Electrical Specifications Switch Type Actuator Type Switching Sequence Pickup Voltage Dropout Voltage		SPDT, Refler Failsafe Break before 9 Volts 2 Volts		
Switch Type Actuator Type Switching Sequence Pickup Voltage	Minimum	Failsafe Break before 9 Volts		Units
Switch Type Actuator Type Switching Sequence Pickup Voltage Dropout Voltage	Minimum DC	Failsafe Break before 9 Volts 2 Volts	Make	Units GHz
Switch Type Actuator Type Switching Sequence Pickup Voltage Dropout Voltage Description		Failsafe Break before 9 Volts 2 Volts	Make Maximum	
Switch Type Actuator Type Switching Sequence Pickup Voltage Dropout Voltage Description Frequency Range		Failsafe Break before 9 Volts 2 Volts Typical	Make Maximum	GHz
Switch Type Actuator Type Switching Sequence Pickup Voltage Dropout Voltage Description Frequency Range Impedance	DC	Failsafe Break before 9 Volts 2 Volts Typical	e Make Maximum 4	GHz Ohms
Switch Type Actuator Type Switching Sequence Pickup Voltage Dropout Voltage <u>Description</u> Frequency Range Impedance Operating Voltage	DC	Failsafe Break before 9 Volts 2 Volts Typical	e Make Maximum 4 14	GHz Ohms Volts
Switch Type Actuator Type Switching Sequence Pickup Voltage Dropout Voltage Description Frequency Range Impedance Operating Voltage Actuating Current @ 12 Volts	DC	Failsafe Break before 9 Volts 2 Volts Typical	• Make Maximum 4 14 133	GHz Ohms Volts
Switch Type Actuator Type Switching Sequence Pickup Voltage Dropout Voltage Description Frequency Range Impedance Operating Voltage Actuating Current @ 12 Volts VSWR	DC	Failsafe Break before 9 Volts 2 Volts Typical	Make Maximum 4 14 133 1.3:1	GHz Ohms Volts mA
Switch Type Actuator Type Switching Sequence Pickup Voltage Dropout Voltage Methods Frequency Range Impedance Operating Voltage Actuating Current @ 12 Volts VSWR Insertion Loss	DC 10	Failsafe Break before 9 Volts 2 Volts Typical	Make Maximum 4 14 133 1.3:1	GHz Ohms Volts mA dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SPDT Electromechanical Relay Failsafe Switch DC to 4 GHz, N, 275 Watts, 12V Control PE7148

ISO 9001 : 2008 Registered

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

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Performance by Frequency

Description	F1	F2	F 3	F4	F5	Units
Frequency Range	DC to 1	1 to 2	2 to 3	3 to 4		GHz
VSWR, Max	1.1:1	1.15:1	1.25:1	1.3:1		
Insertion Loss, Max	0.1	0.15	0.2	0.25		dB
Isolation, Min	80	80	80	70		dB
Input Power, Typ (CW)	550	400	325	275		Watts

Electrical Specification Notes: Intermodulation measured with two 250 Watt signals (F1 = 825 MHz, F2 = 850 MHz)

Mechanical Specifications

Size Length Width/Diameter Height Weight Body Material and Plating Package Type

Operating Life Switching Time

Connectors

RF Connector Type RF Connector Contact Material and Plating RF Connector Body Material and Plating Control Connector

Mechanical Specification Notes: RF Connector mating requirements per MIL-C-39012

Environmental Specifications

Temperature Operating Range Storage Range 2.5 in [63.5 mm] 1 in [25.4 mm] 2.34 in [59.44 mm]

0.41 lbs [185.97 g] Aluminum, Black Anodized Connectorized Module

1,000,000 Cycles 20 ms Max

N Female Beryllium Copper, Gold Passivated Stainless Steel Solder Terminals

-40 to +85 deg C -55 to +100 deg C

Compliance Certifications (visit www.Pasternack.com for current document) RoHS Compliant

REACH Compliant

12/17/2014

Plotted and Other Data

Notes:

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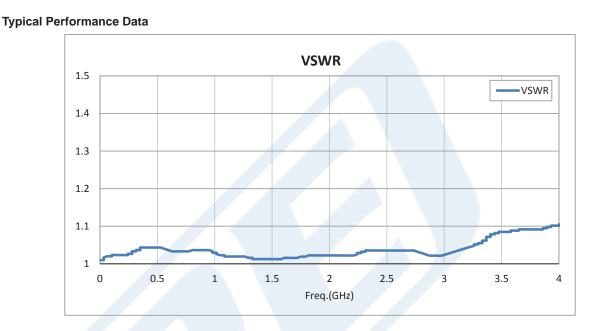
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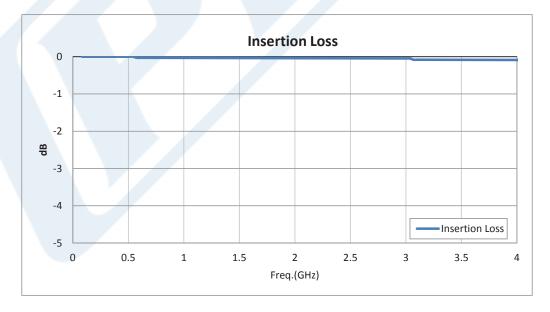




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SPDT Electromechanical Relay Failsafe Switch DC to 4 GHz, N, 275 Watts, 12V Control from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SPDT Electromechanical Relay Failsafe Switch DC to 4 GHz, N, 275 Watts, 12V Control PE7148

URL: http://www.pasternack.com/n-electromechanical-spdt-switch-4ghz-275watts-10-14volts-f-pe7148-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.



PE7148 CAD Drawing

SPDT Electromechanical Relay Failsafe Switch DC to 4 GHz, N, 275 Watts, 12V Control

