



Electromechanical Relay Switches Technical Data Sheet

PE71S6128

Features

- Single Pole Four Throw Relay Switch
- DC to 22 GHz Frequency Range
- 1M Cycle Min Operating Life
- · Normally Open Actuator
- TTL Logic Driver, Position Indicators, Suppression Diodes
- Insertion Loss 0.6 dB max
- Isolation 60 dB min
- 20 Watts Avg Power Max
- · Switching Sequence Break Before Make

Applications

- Test & Measurement
- · Communications System
- Instrumentation

Description

The PE71S6128 is a Single Pole Four Throw Electromechanical Relay Switch that operates from DC to 22 GHz and has a rating of 20 Watts input power (CW) in a Break Before Make condition. The design features a Normally Open Actuator with TTL Logic Driver, Position Indicators, Suppression Diodes and is rated for 1M Life Cycles for high reliability operation. Insertion loss is specified from 0.3 dB max and Isolation from 75 dB min, with +12 Vdc operating voltage. Performance is guaranteed over -55°C to +85°C and the switch assembly is RoHS compliant. The package interface uses solder terminals and SMA Female connectors.

Electrical Specifications

Switch Type Actuator Type Switching Sequence Actuator Options TTL Control SP4T, Reflective Normally Open Break Before Make Indicators, TTL Logic, Diodes on: 2.4 to 5 Volts off: 0 to 0.8 Volts

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		22	GHz
Impedance		50		Ohms
Operating Voltage		12		Volts
Actuating Current @ 12 Volts		310		mA
VSWR			1.6:1	
Insertion Loss			0.6	dB
Isolation	60			dB
Input Power (CW)			20	Watts
(at 22 GHz)				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP4T Electromechanical Relay Normally Open Switch DC to 22 GHz, SMA, 20 Watts, 12V Control, Indicators, TTL, Diodes PE71S6128

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

ISO 9001 : 2008 Registered







Electromechanical Relay Switches Technical Data

PE71S6128

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 8	8 to 12	12 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	0.3	0.35	0.4	0.5	0.6	dB
Isolation, Min	75	70	65	60	60	dB

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

Environmental Specifications

Temperature

Operating Range

ESD Sensitivity

15 ms Max

Aluminum

2.75 in [69.85 mm]

1.75 in [44.45 mm] 1.75 in [44.45 mm]

0.37 lbs [167.83 q]

Connectorized Module 1,000,000 Cycles

SMA Female

Beryllium Copper, Gold

Passivated Stainless Steel

Solder Pin

-55 to +85 deg C

ESD Sensitive Material. Transport material in Approved ESD bags. Handle in approved ESD Workstation.



Environmental Specification Notes:

Designed to meet MIL-DTL-3928

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

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP4T Electromechanical Relay Normally Open Switch DC to 22 GHz, SMA, 20 Watts, 12V Control, Indicators, TTL, Diodes PE71S6128

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

Sales@Pasternack.com • Techsupport@Pasternack.com



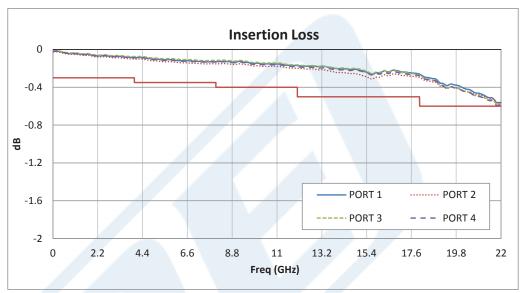


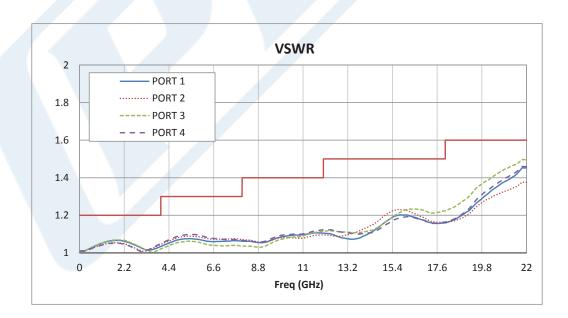


Electromechanical Relay Switches Technical Data

PE71S6128

Typical Performance Data





Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SP4T Electromechanical Relay Normally Open Switch DC to 22 GHz, SMA, 20 Watts, 12V Control, Indicators, TTL, Diodes PE71S6128

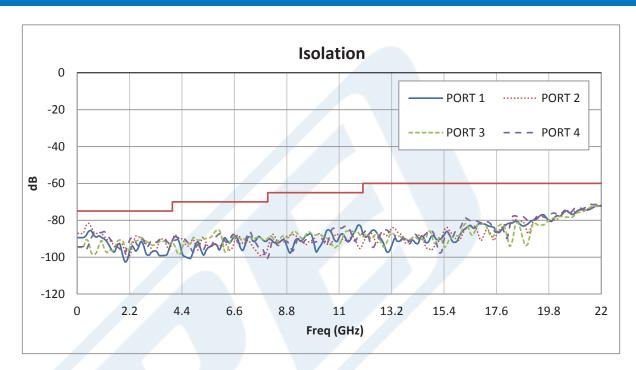






Electromechanical Relay Switches Technical Data

PE71S6128



SP4T Electromechanical Relay Normally Open Switch DC to 22 GHz, SMA, 20 Watts, 12V Control, Indicators, TTL, Diodes 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: SP4T Electromechanical Relay Normally Open Switch DC to 22 GHz, SMA, 20 Watts, 12V Control, Indicators, TTL, Diodes PE71S6128

URL: http://www.pasternack.com/sma-sp4t-electromechanical-relay-switch-22-ghz-normally-open-indicators-pe71s6128-p. aspx

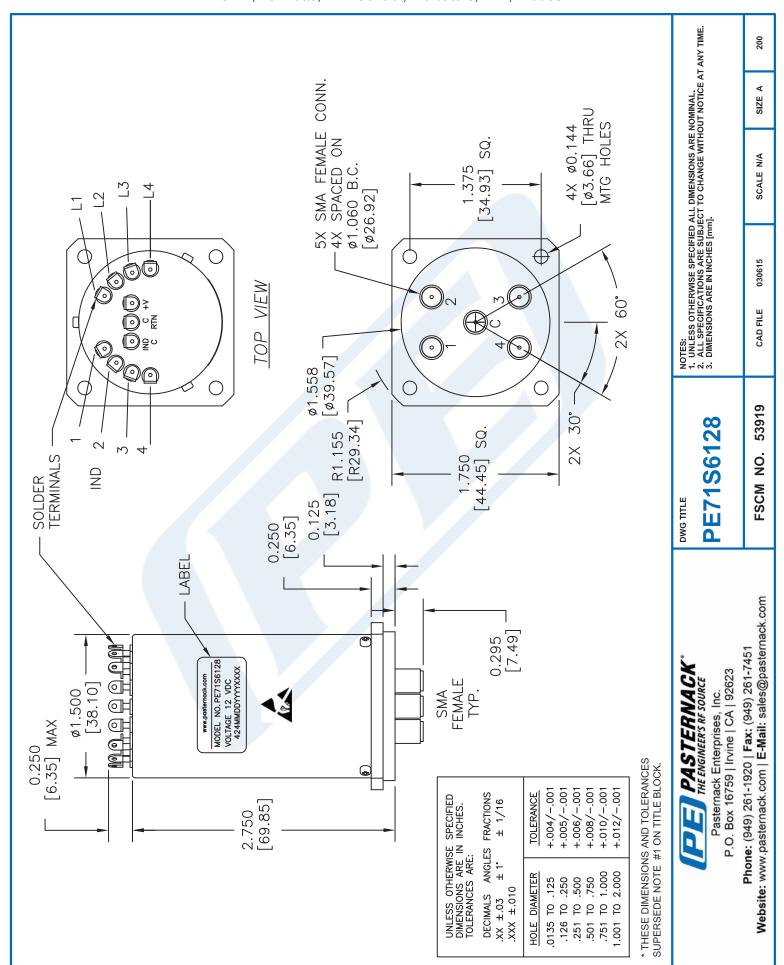
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such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



© 2016 Pasternack Enterprises All Rights Reserved

PE71S6128 CAD Drawing

SP4T Electromechanical Relay Normally Open Switch DC to 22 GHz, SMA, 20 Watts, 12V Control, Indicators, TTL, Diodes



PE71S6128 CAD Drawing

SP4T Electromechanical Relay Normally Open Switch DC to 22 GHz, SMA, 20 Watts, 12V Control, Indicators, TTL, Diodes

