



Transfer Electromechanical Relay Failsafe Switch DC to 4 GHz, N, 275 Watts, 28V Control

Electromechanical Relay Switches Technical Data Sheet

PE7153

Features

- Transfer Switch
- DC to 4GHz Frequency Range
- 1M Cycles Min Lifetime
- Failsafe Switch
- Break before Make
- -40 to +85 Deg C Operating Temperature
- Insertion Loss 0.25 dB Max
- VSWR 1.3:1 Max
- +28 Vdc Operating Voltage
- Power Handling 275 Watts

Applications

- Test & Measurement
- Instrumentation

Description

The PE7153 is a Transfer Electromechanical Relay Switch that operates from DC to 4 GHz and can handle up to 550 Watts of CW input power in a Break before Make condition. This design features a Failsafe Actuator and is rated for 1M Life Cycles. Insertion loss is specified from 0.1 dB max and Isolation from 85 dB min, with +18 Vdc operating voltage. Performance is guaranteed over -40 deg C to +85 deg C, and the switch assembly is RoHS and REACH compliant. The package interface uses solder terminals and N female connectors.

Electrical Specifications

Switch Type	Transfer, Reflective
Actuator Type	Failsafe
Switching Sequence	Break before Make
Pickup Voltage	18 Volts
Dropout Voltage	2 Volts

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
Impedance		50		Ohms
Operating Voltage	20	28	32	Volts
Actuating Current @ 28 Volts			164	mA
VSWR			1.3:1	
Insertion Loss			0.25	dB
Isolation	75			dB
Input Power (CW)			275	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Transfer Electromechanical Relay Failsafe Switch DC to 4 GHz, N, 275 Watts, 28V Control PE7153](#)



Transfer Electromechanical Relay Failsafe Switch
DC to 4 GHz, N, 275 Watts, 28V Control

Electromechanical Relay Switches Technical Data

PE7153

Performance by Frequency

Description	F1	F2	F3	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	85	80	75	75		dB
Input Power, Typ (CW)	550	400	325	275		Watts

Mechanical Specifications

Size

Length	3.1 in [78.74 mm]
Width/Diameter	3.25 in [82.55 mm]
Height	1.81 in [45.97 mm]
Weight	0.53 lbs [240.4 g]
Body Material and Plating	Aluminum, Black Anodized
Package Type	Connectorized Module
Operating Life	1,000,000 Cycles
Switching Time	20 ms Max

Connectors

RF Connector Type	N Female
RF Connector Contact Material and Plating	Beryllium Copper, Gold
RF Connector Body Material and Plating	Passivated Stainless Steel
Control Connector	Solder Terminals

Mechanical Specification Notes:

RF Connector mating requirements per MIL-C-39012

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Storage Range	-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:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Transfer Electromechanical Relay Failsafe Switch DC to 4 GHz, N, 275 Watts, 28V Control PE7153](#)

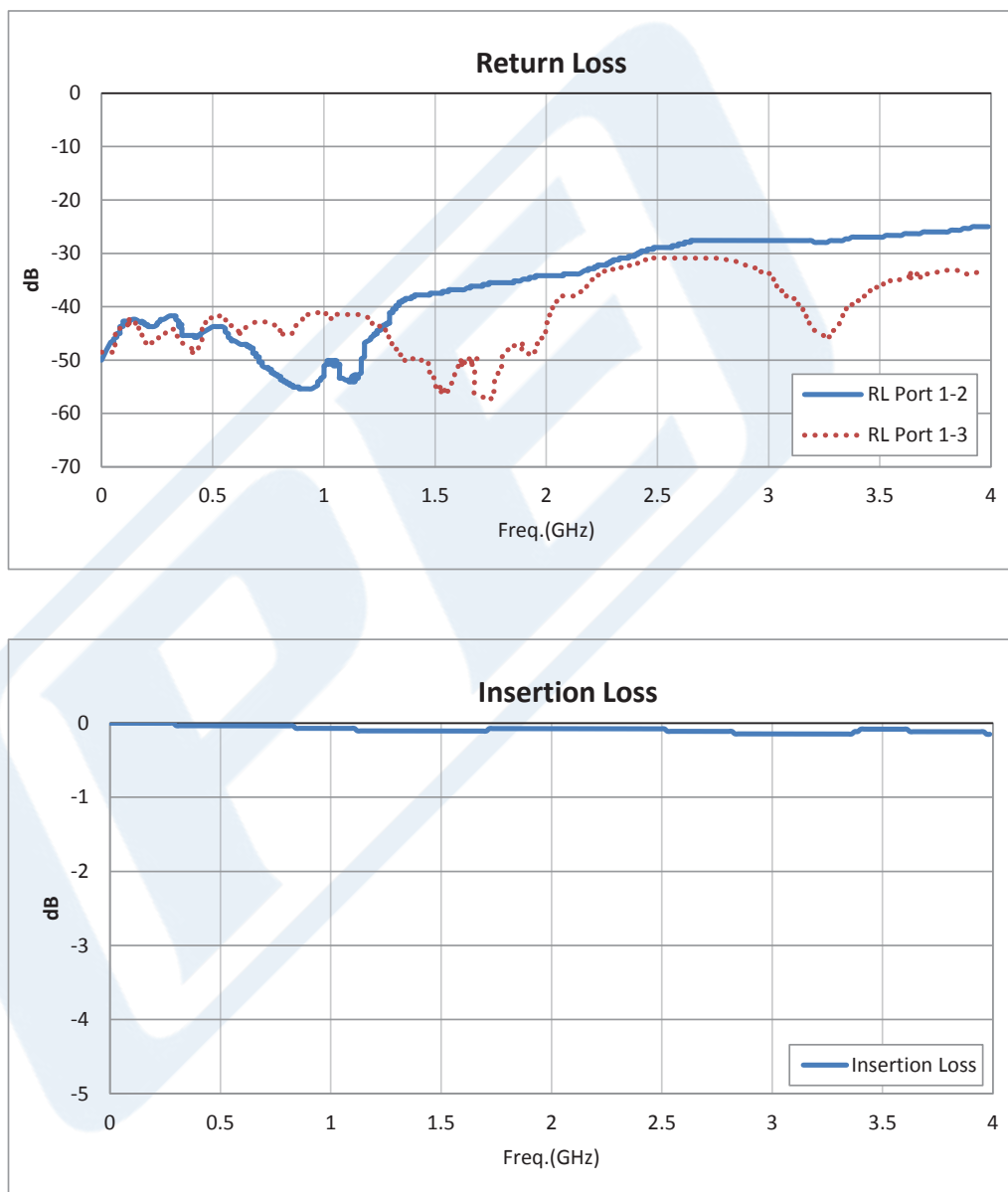


Transfer Electromechanical Relay Failsafe Switch
DC to 4 GHz, N, 275 Watts, 28V Control

Electromechanical Relay Switches Technical Data

PE7153

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: [Transfer Electromechanical Relay Failsafe Switch DC to 4 GHz, N, 275 Watts, 28V Control PE7153](#)



Transfer Electromechanical Relay Failsafe Switch
DC to 4 GHz, N, 275 Watts, 28V Control

Electromechanical Relay Switches Technical Data

PE7153

Transfer Electromechanical Relay Failsafe Switch DC to 4 GHz, N, 275 Watts, 28V 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.

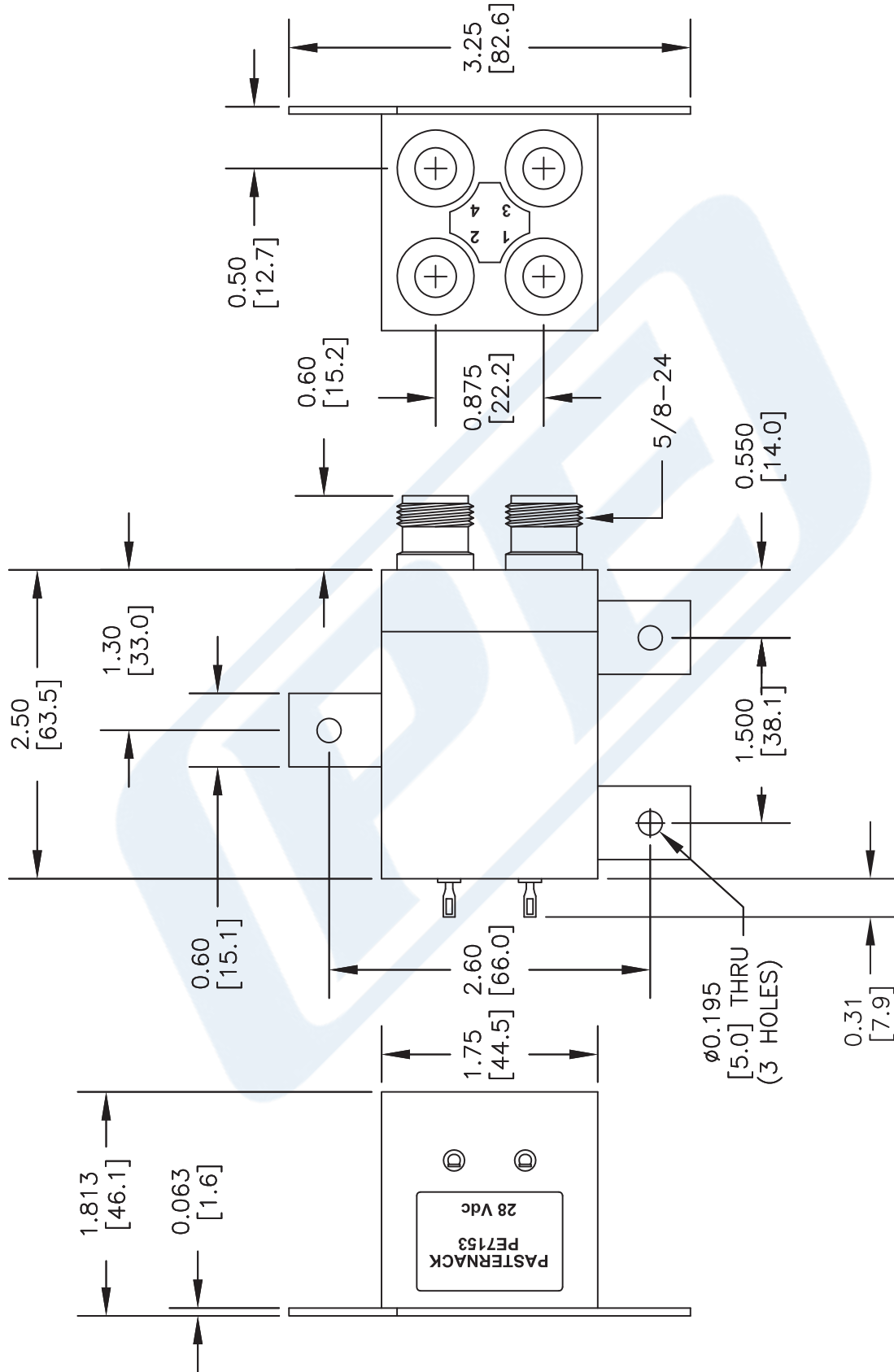
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Transfer Electromechanical Relay Failsafe Switch DC to 4 GHz, N, 275 Watts, 28V Control PE7153](http://www.pasternack.com/n-electromechanical-transfer-switch-4ghz-275watts-20-32volts-f-pe7153-p.aspx)

URL: <http://www.pasternack.com/n-electromechanical-transfer-switch-4ghz-275watts-20-32volts-f-pe7153-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.

PE7153 CAD Drawing

Transfer Electromechanical Relay Failsafe Switch DC to 4 GHz, N, 275 Watts, 28V Control



DWG TITLE

PE7153

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].

Website: www.pasternack.com | **E-Mail:** sales@pasternack.com

Phone: (949) 261-1920 | **Fax:** (949) 261-7451

P.O. Box 16759 | Irvine | CA | 92623

Pasternack Enterprises, Inc.

PE PASTERNAK®
THE ENGINEER'S RF SOURCE

FSCM NO. 53919

CAD FILE

090915

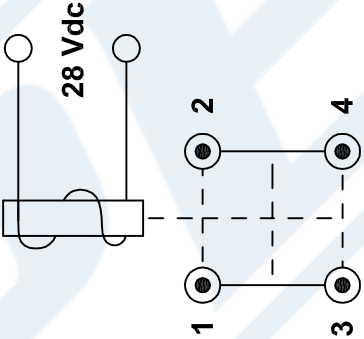
SCALE N/A

SIZE A

150

SCHEMATIC SHOWN IN
DE-ENERGIZED POSITION

POS. 1 1-2 3-4 (OPEN)
 1-3 2-4 (CLOSED)



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
PE7153

FSCM NO. 53919

150

SIZE A

SCALE N/A

CAD FILE 090915

PE PASTERNAK®
THE ENGINEER'S RF SOURCE
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com