



Absorptive Transfer PIN Diode Switch Operating From 10 MHz to 1,000 MHz Up to 2 Watts (+33 dBm) and Field Replaceable SMA

PIN Diode Switches Technical Data Sheet

PE71S6286

Features

- Transfer Absorptive Switch
- 0.01 GHz to 1.0 GHz GHz
- Insertion Loss 1.3 dB max
- Isolation 80 dB min
- Power Input 33 dBm CW max
- Field Replaceable Connectors

Applications

- Test & Measurement
- Military Communication
- Commercial Communication
- Wireless Communications
- SATCOM
- Military Electronic Systems
- RF Test Stations

Description

The PE71S6286 is a Transfer Absorptive Switch that operates from 0.01 GHz to 1.0 GHz. Performance includes 1.3 dB max insertion loss, 80 dB min isolation, and 100 nsec max switching speed. The design incorporates TTL compatible driver circuitry for accurate logic control. Operational temperature range is -55°C to +85°C and dual voltage controls of +5 VDC and -15 VDC are required. The rugged package is designed to meet a series of MIL-STD-202F environmental conditions including humidity, shock, vibration, and temperature cycle. Package interfaces include solder terminals and female SMA connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	10		1,000	MHz
Impedance		50		Ohms
VSWR			1.5:1	
Insertion Loss			1.3	dB
Isolation	80			dB
Switching Time			100	ns
Input Power (CW)			2	Watts
Positive Operating Voltage		5		Vdc
Negative Operating Voltage		-15		Vdc
Operating Temperature	-55		+85	deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Absorptive Transfer PIN Diode Switch Operating From 10 MHz to 1,000 MHz Up to 2 Watts \(+33 dBm\) and Field Replaceable SMA PE71S6286](#)



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Mechanical Specifications

Size

Length	1.2 in [30.48 mm]
Width	1.2 in [30.48 mm]
Height	0.5 in [12.7 mm]
Weight	0.081 lbs [36.74 g]
Finish	Blue Paint

Configuration

Design	Absorptive, Transfer
RF Connector	SMA Female
RF Connector Option	Field Replaceable
TTL Control Connector	Solder Pin

Environmental Specifications

Temperature

Operating Range	-55 to +85 deg C
Storage Range	-65 to +125 deg C

Humidity

MIL-STD-202F, Method 103B, Condition B

Shock

MIL-STD-202F, Method 213B, Condition B

Vibration

MIL-STD-202F, Method 204D, Condition B

Altitude

MIL-STD-202F, Method 105C, Condition B

Temperature Cycling

MIL-STD-202F, Method 107D, Condition A

ESD Sensitivity

ESD Sensitive Material, Transport material in Approved

ESD bags. Handle only in ESD Workstation.



Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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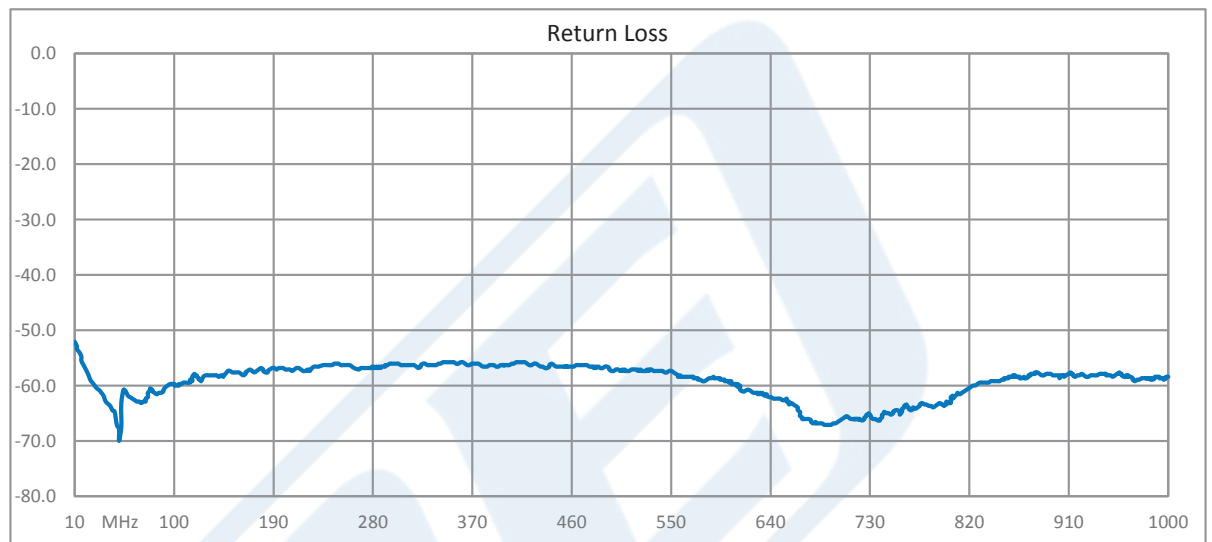


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Typical Performance Data



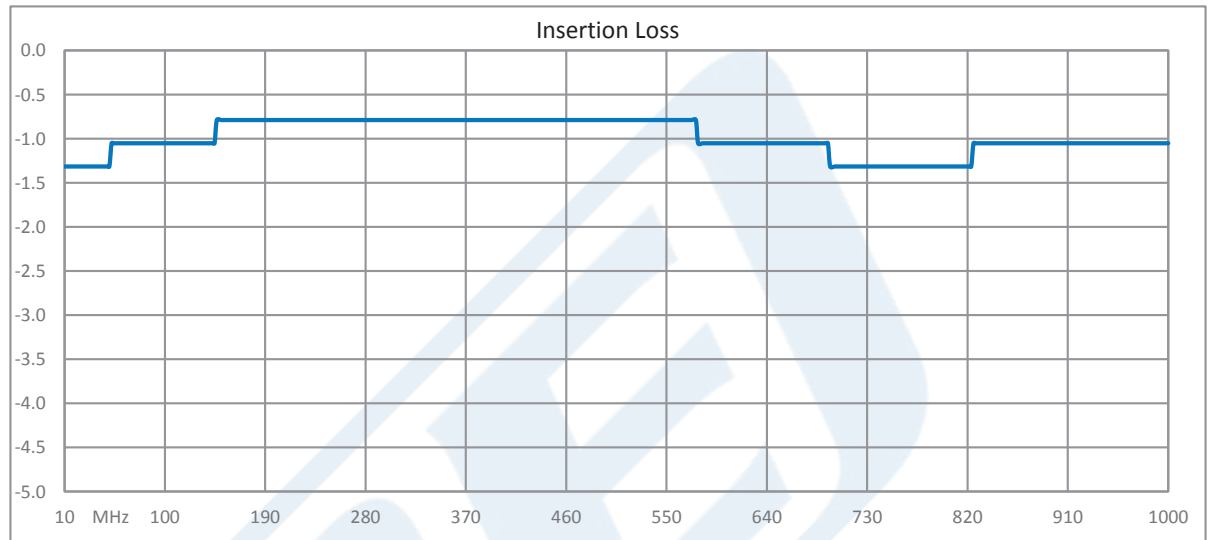
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Absorptive Transfer PIN Diode Switch Operating From 10 MHz to 1,000 MHz Up to 2 Watts (+33 dBm) and Field Replaceable SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

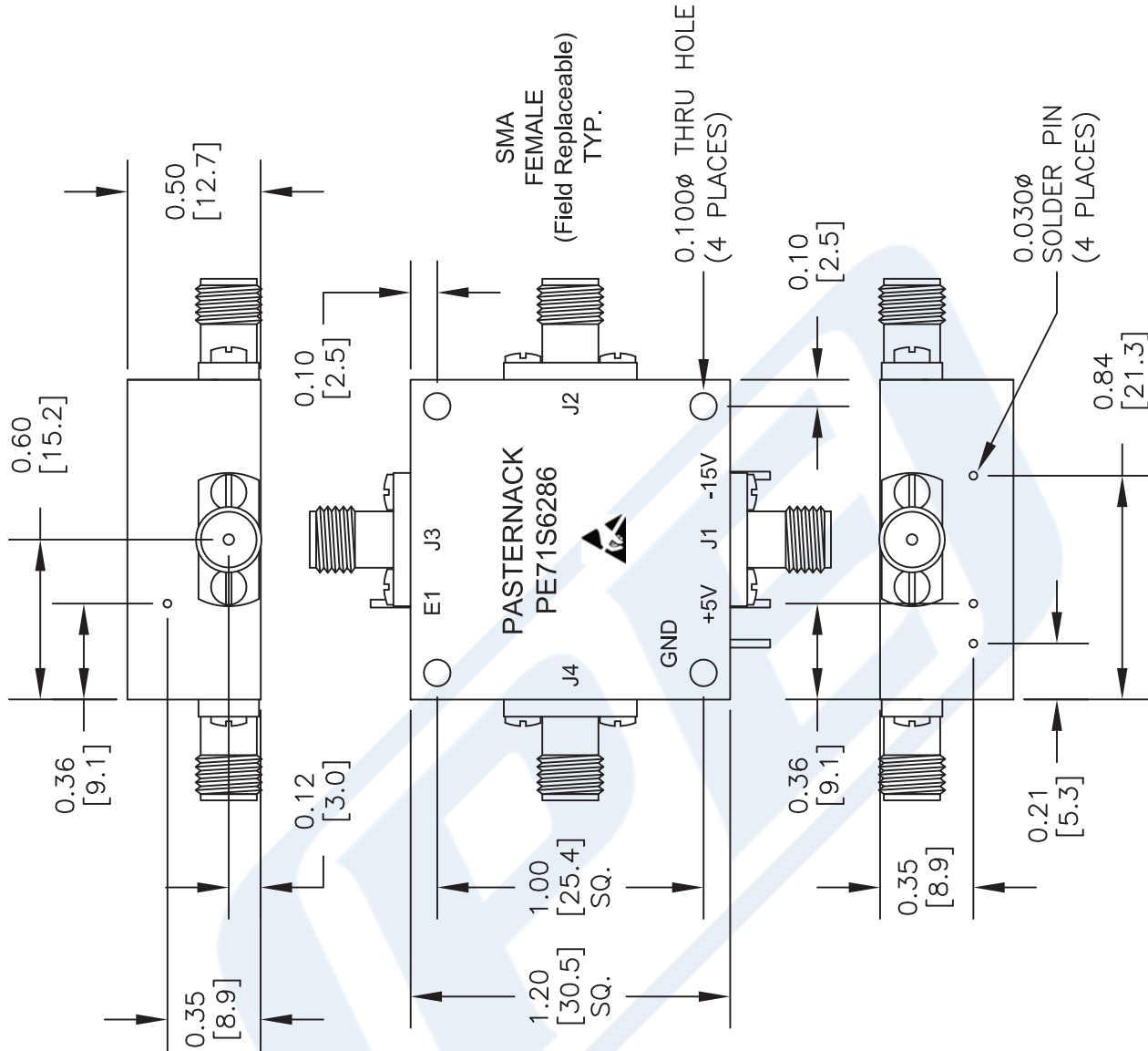
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Absorptive Transfer PIN Diode Switch Operating From 10 MHz to 1,000 MHz Up to 2 Watts \(+33 dBm\) and Field Replaceable SMA PE71S6286](https://www.pasternack.com/absorptive-transfer-pin-diode-switch-1000-mhz-2-watts-sma-pe71s6286-p.aspx)

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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.

PE71S6286 CAD Drawing

Absorptive Transfer PIN Diode Switch Operating From 10 MHz to 1,000 MHz Up to 2 Watts (+33 dBm) and Field Replaceable SMA



TTL LOGIC TABLE		
TTL LOGIC	INSERTION LOSS	ISOLATION
0	J1-J2 J3-J4	J1-J4 J2-J3
1	J1-J4 J2-J3	J1-J2 J3-J4

ALL DIMENSIONS ARE IN INCHES.
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

* THESE DIMENSIONS AND TOLERANCES
SUPERSEDE NOTE #1 ON TITLE BLOCK.

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DWG TITLE
PE71S6286

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].

FSCM NO. 53919

CAD FILE 041916

SCALE N/A

SIZE A

2233