



Positive Slope Equalizer, 2 GHz to 6 GHz, 4 dB Fixed Equalizing Value, 1.5 dB Loss, Max Pin +30 dBm, Field Replaceable SMA

TECHNICAL DATA SHEET

PE70A9007

The PE70A9007 is a Positive Slope Equalizer module that covers a broadband frequency range from 2 GHz to 6 GHz. The 50 Ohm design has a fixed positive slope equalizing value of 4 dB typical at 2 GHz and 0 dB typical at 6 GHz. This positive slope response across the frequency band is particularly useful in compensating for gain variation in systems where excessive losses occur at the lower end of the frequency band which may be due to low pass filtering effects, or from long lengths of waveguide transmission. Impressive performance includes low insertion loss of 1.5 dB typ, 1.8:1 typ VSWR, and maximum RF input power handling of +30 dBm. The rugged and compact package design supports field replaceable SMA female connectors, operates across a wide temperature range of -20°C to +60°C, and can withstand relative humidity levels up to 95%.

Features

- Positive Slope Equalizer Module
- Frequency Range: 2 GHz to 6 GHz
- 4 dB Fixed Equalizing Value
- Insertion Loss: 1.5 dB typ
- VSWR: 1.8:1 typ
- Maximum RF Input Power: +30 dBm
- 50 Ohm Design
- Field Replaceable SMA Connectors
- Compact Package Design withstands up to 95% Relative Humidity
- -20°C to +60°C Operating Temperature

Applications

- Low Pass Filtering Compensation
- Cable or Waveguide Loss Compensation
- Amplifier Flatness Compensation
- Microwave Radio
- RF Transceivers
- SATCOM
- Test & Measurement
- Telecom Infrastructure

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		6	GHz
Small Signal Insertion Loss		1.5	2	dB
Equalizing Type		Positive		
Equalizing Value	3.5	4	4.5	dB
Input VSWR		1.8:1	2:1	
Output VSWR		1.8:1	2:1	
Impedance(IN/Out)		50		Ω
RF Input Power			+30	dBm

Mechanical Specifications

Input Connector	SMA Female (Field Replaceable)
Output Connector	SMA Female (Field Replaceable)
Length	0.79in [20.07mm]
Width	0.63in [16mm]
Height	0.39in [9.91mm]
Weight	0.04lbs

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Positive Slope Equalizer, 2 GHz to 6 GHz, 4 dB Fixed Equalizing Value, 1.5 dB Loss, Max Pin +30 dBm, Field Replaceable SMA PE70A9007](#)



Positive Slope Equalizer, 2 GHz to 6 GHz, 4 dB Fixed Equalizing Value, 1.5 dB Loss, Max Pin +30 dBm, Field Replaceable SMA

TECHNICAL DATA SHEET

PE70A9007

Environmental

Temperature
Operating Range
Storage Range

-20 to +60 °C
-40 to +65 °C

Humidity

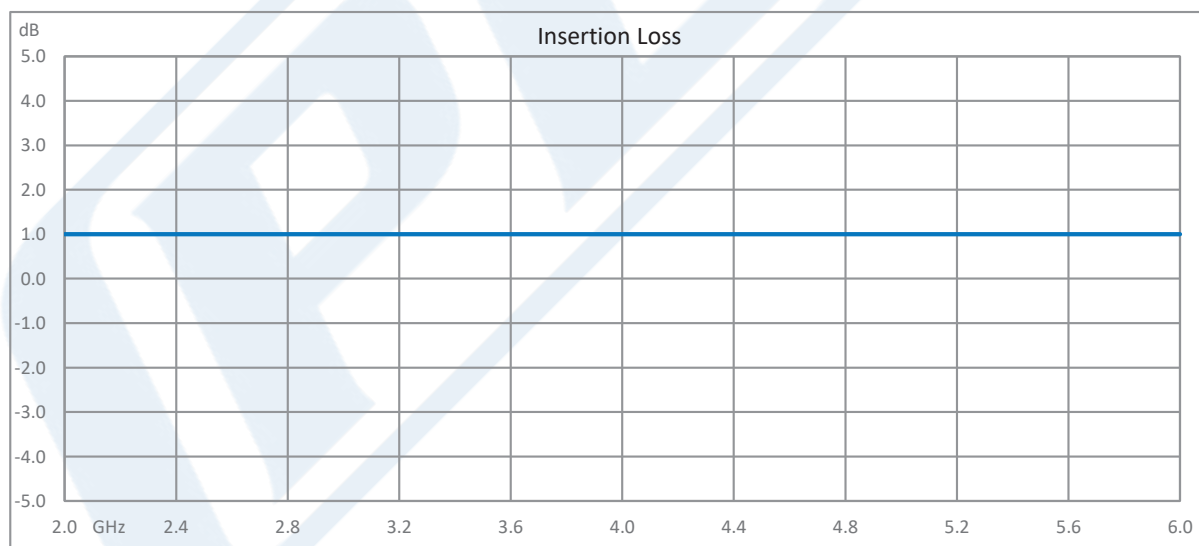
95% Non-Condensing

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

Plotted and Other Data

Notes:

- Values at +25 °C, sea level



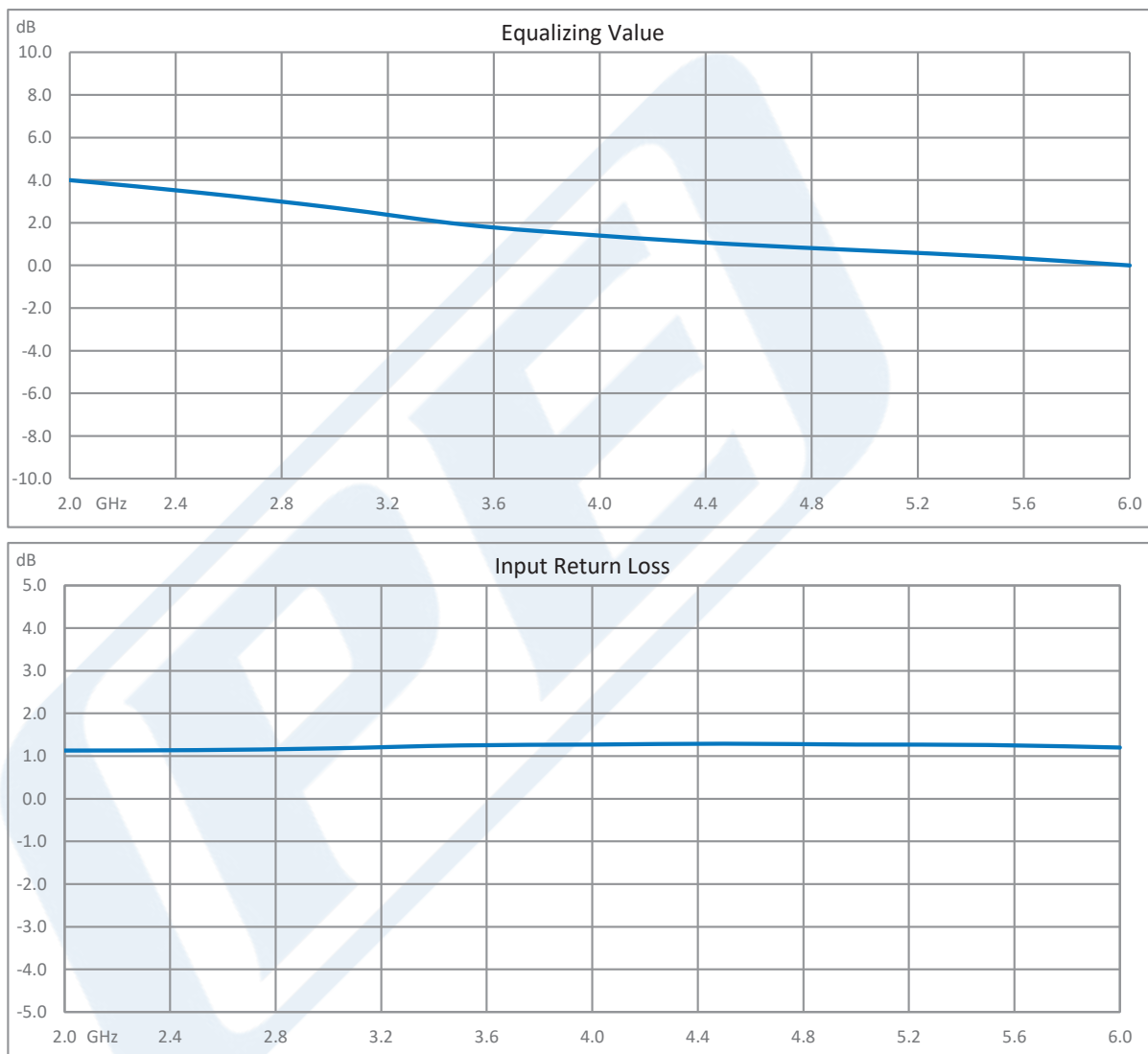
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Positive Slope Equalizer, 2 GHz to 6 GHz, 4 dB Fixed Equalizing Value, 1.5 dB Loss, Max Pin +30 dBm, Field Replaceable SMA PE70A9007](#)



Positive Slope Equalizer, 2 GHz to 6 GHz, 4 dB Fixed Equalizing Value, 1.5 dB Loss, Max Pin +30 dBm, Field Replaceable SMA

TECHNICAL DATA SHEET

PE70A9007



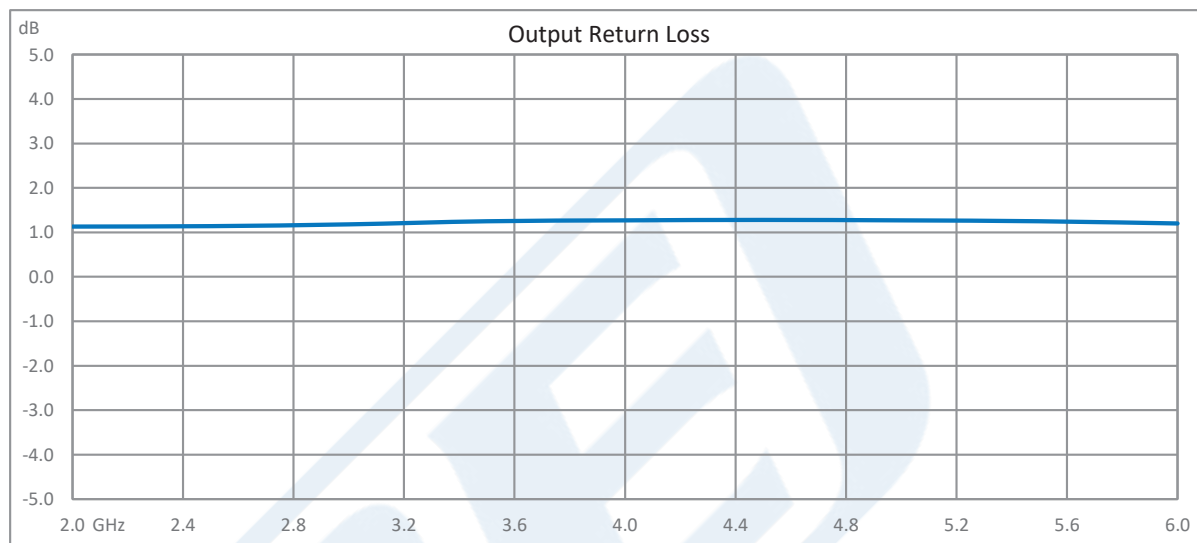
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Positive Slope Equalizer, 2 GHz to 6 GHz, 4 dB Fixed Equalizing Value, 1.5 dB Loss, Max Pin +30 dBm, Field Replaceable SMA PE70A9007](#)



Positive Slope Equalizer, 2 GHz to 6 GHz, 4 dB Fixed Equalizing Value, 1.5 dB Loss, Max Pin +30 dBm, Field Replaceable SMA

TECHNICAL DATA SHEET

PE70A9007



Positive Slope Equalizer, 2 GHz to 6 GHz, 4 dB Fixed Equalizing Value, 1.5 dB Loss, Max Pin +30 dBm, Field Replaceable SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% 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: [Positive Slope Equalizer, 2 GHz to 6 GHz, 4 dB Fixed Equalizing Value, 1.5 dB Loss, Max Pin +30 dBm, Field Replaceable SMA PE70A9007](#)

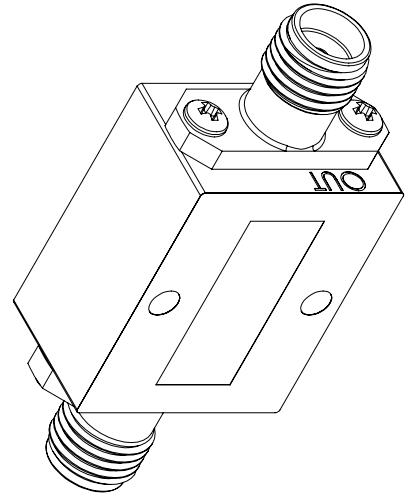
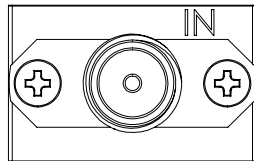
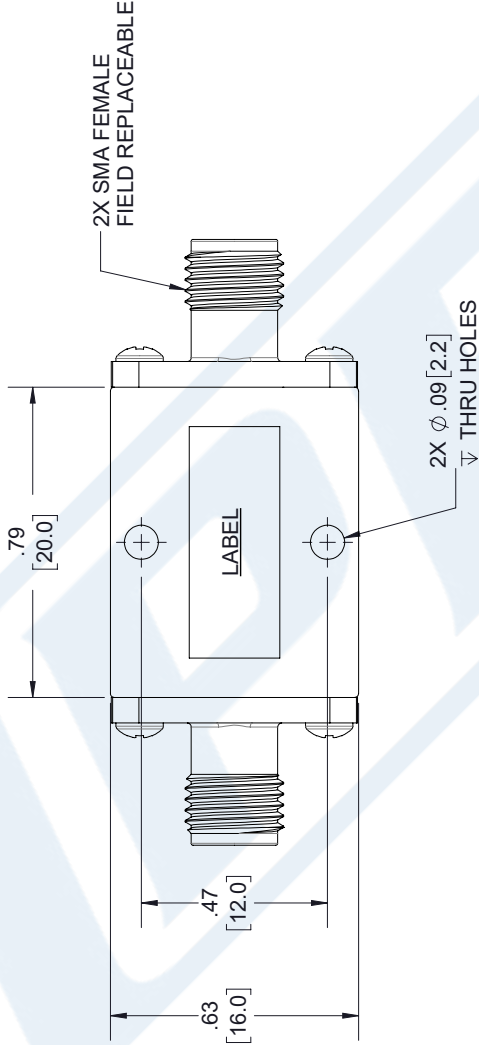
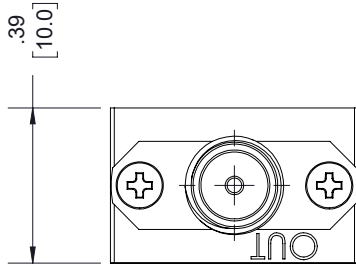
URL: <https://www.pasternack.com/pe70a9007-p.aspx>

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.

PE70A9007 CAD Drawing

Positive Slope Equalizer, 2 GHz to 6 GHz, 4 dB Fixed Equalizing Value, 1.5 dB Loss, Max Pin +30 dBm, Field Replaceable SMA

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	23-01-2020
		TGALLA



LABEL:

PASTERNAK
PE70A9007
D/C: YYWW

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		PASTERNAK an INFINITI brand Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com		THIRD-ANGLE PROJECTION	
TOLERANCES: X = ± .2 [5.08] .XX = ± .02 [.51] .XXX = ± .005 [.13] ANGLES ± 1° CABLE LENGTH (L) TOLERANCES: L ≤ 12 [305] = ± .1 [25] / -0 12 [305] < L ≤ 60 [1524] = ± .2 [51] / -0 60 [1524] < L ≤ 120 [3048] = ± .4 [102] / -0 120 [3048] < L ≤ 300 [7620] = ± .6 [152] / -0 300 [7620] < L = +5% / L / -0		THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.		SHEET 1 OF 1 SCALE N/A	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SIZE A		CAGE CODE 53919	
		DRAWN BY MVEERAPPAN		ITEM NO. PE70A9007	
				REV A	

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.