



Positive Slope Equalizer, 2 GHz to 12 GHz, 7 dB Fixed Equalizing Value, 1.5 dB Loss, Max Pin +30 dBm, Field Replaceable SMA

TECHNICAL DATA SHEET

PE70A9009

The PE70A9009 is a Positive Slope Equalizer module that covers a broadband frequency range from 2 GHz to 12 GHz and exhibits a fixed attenuation response that increases linearly with frequency. The 50 Ohm design has a positive slope equalizing value of 8 dB typical at 2 GHz. Positive Slope Equalizers are 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 in RF & Microwave systems and high-speed digital systems, 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 12 GHz
- 8 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		12	GHz
Small Signal Insertion Loss		1.5	2.5	dB
Equalizing Type		Positive		
Equalizing Value	7	8	9	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 12 GHz, 7 dB Fixed Equalizing Value, 1.5 dB Loss, Max Pin +30 dBm, Field Replaceable SMA PE70A9009](#)



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Environmental

Temperature
Operating Range
Storage Range

-20 to +60 °C
-40 to +65 °C

Humidity

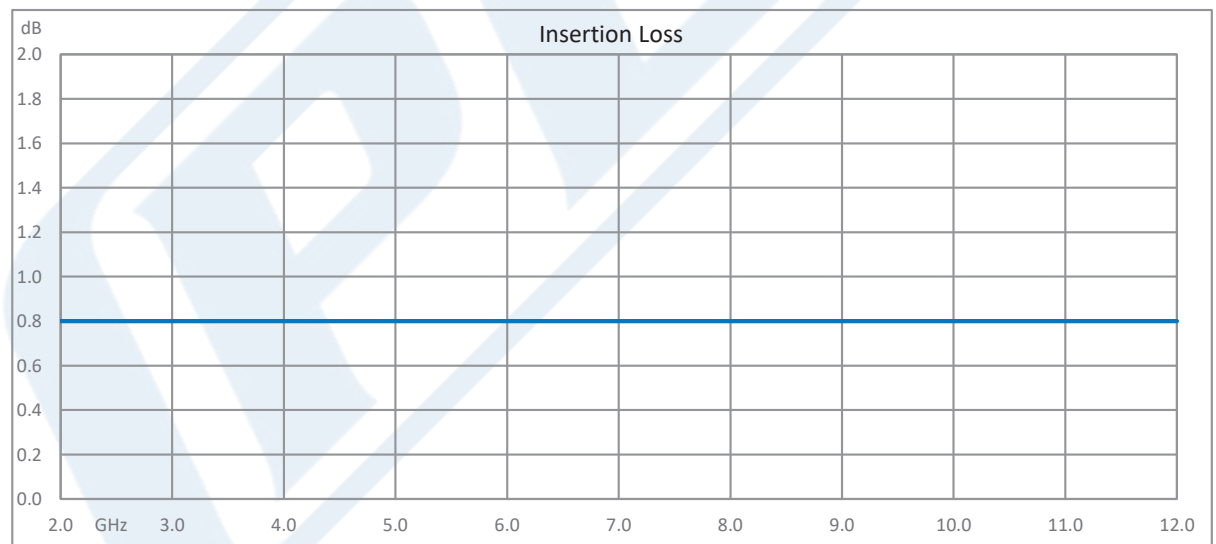
95% Non-Condensing

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

Plotted and Other Data

Notes:

- Values at +25 °C, sea level



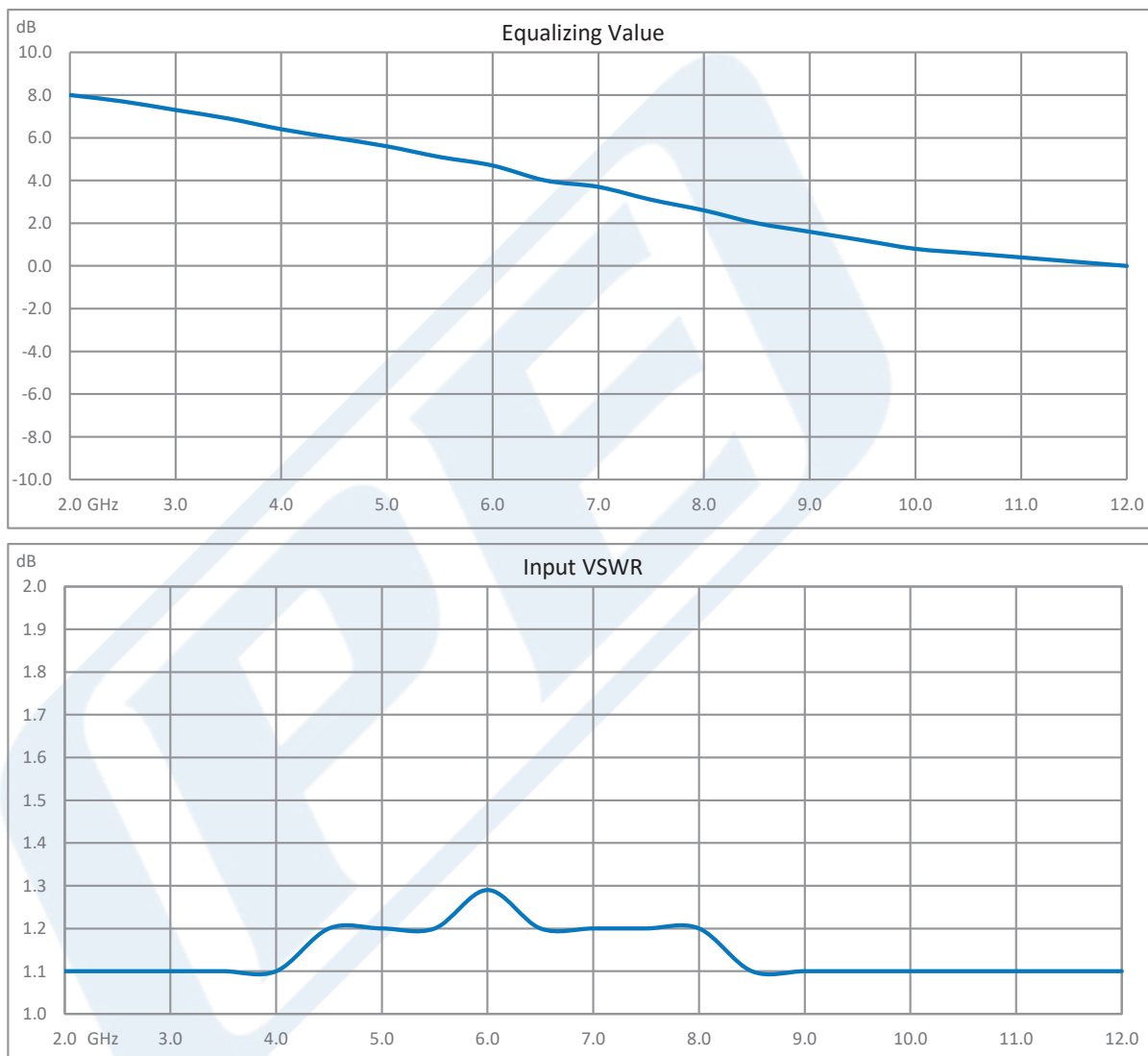
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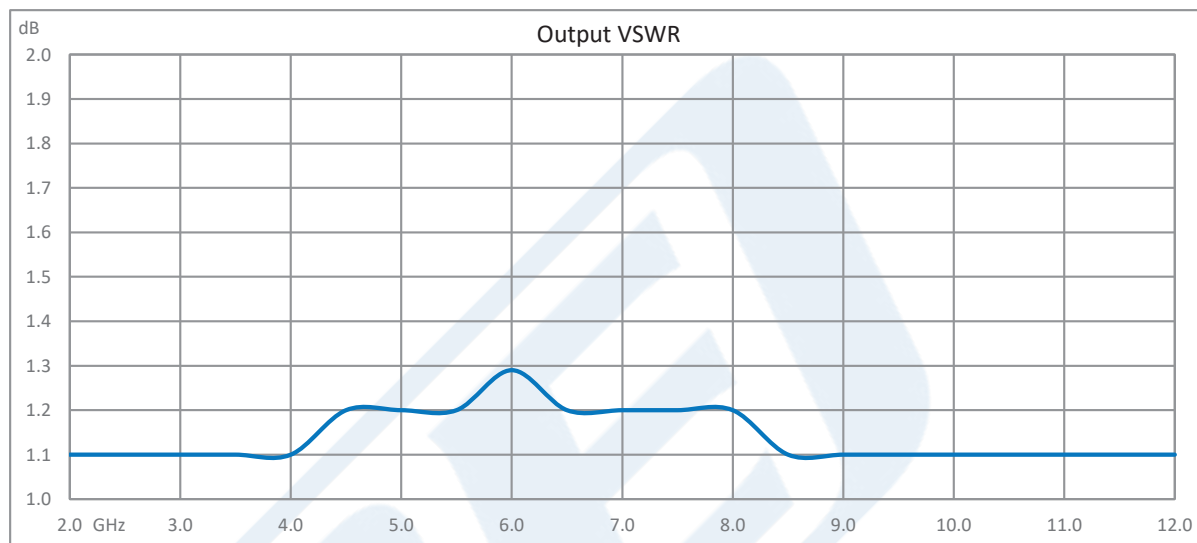
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Positive Slope Equalizer, 2 GHz to 12 GHz, 7 dB Fixed Equalizing Value, 1.5 dB Loss, Max Pin +30 dBm, Field Replaceable SMA from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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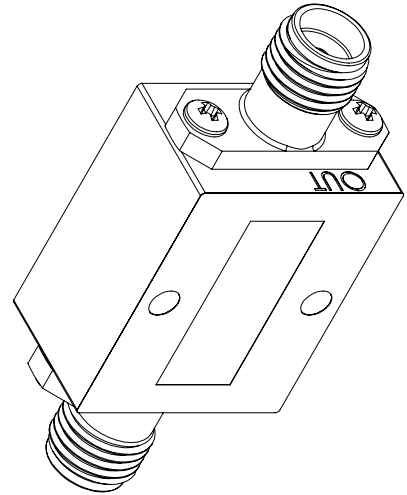
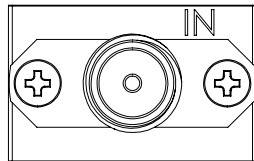
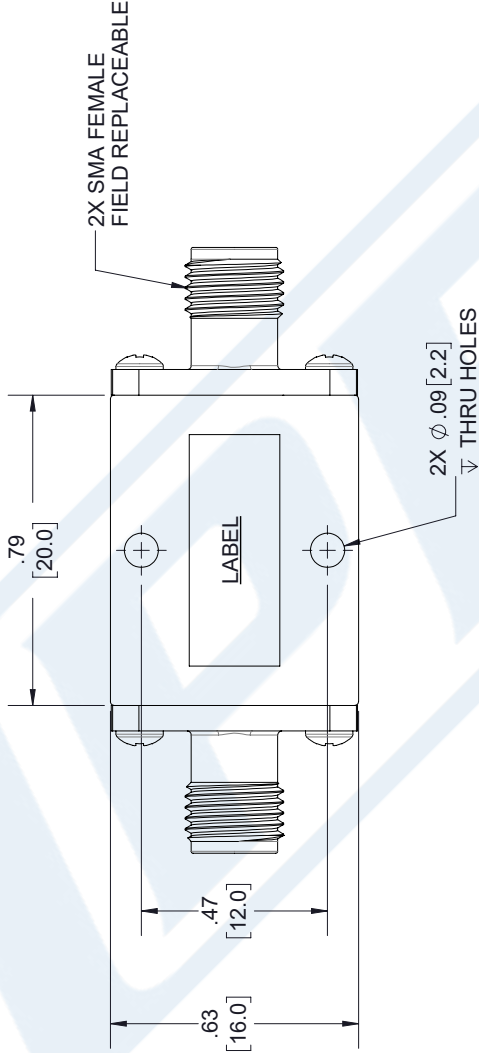
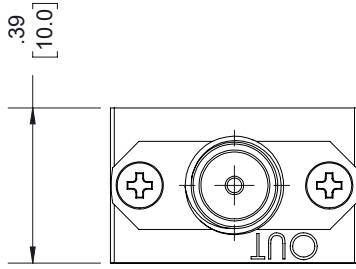
URL: <https://www.pasternack.com/pe70a9009-p.aspx>

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PE70A9009 CAD Drawing

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



LABEL:

PASTERNAK
PE70A9009
D/C: YYWW

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SCALE N/A		REV A
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		ITEM NO. PE70A9009
SIZE A		CAGE CODE 53919
DRAWN BY MVEERAPPAN		REV A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ± .2	[5.08]	FRACTIONS	± 1/32
.XX = ± .02	[.51]	ANGLES	± 1°
.XXX = ± .005	[.13]	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% / -0			

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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