



Positive Slope Equalizer, 18 GHz to
40 GHz, 2 dB Fixed Equalizing Value, 2 dB Loss, Max
Pin +30 dBm, Field Replaceable 2.92mm

TECHNICAL DATA SHEET

PE70A9014

The PE70A9014 is a Positive Slope Equalizer module that covers a broadband frequency range from 18 GHz to 40 GHz. The 50 Ohm design has a fixed positive slope equalizing value of 2 dB typical at 18 GHz and 0 dB typical at 40 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 2 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 2.92mm 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: 18 GHz to 40 GHz
- 2 dB Fixed Equalizing Value
- Insertion Loss: 2 dB typ
- VSWR: 1.8:1 typ
- Maximum RF Input Power: +30 dBm
- 50 Ohm Design
- Field Replaceable 2.92mm 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	18		40	GHz
Small Signal Insertion Loss		2	4	dB
Equalizing Type		Positive		
Equalizing Value	1.5	2	2.5	dB
Input VSWR		1.8:1	2.5:1	
Output VSWR		1.8:1	2.5:1	
Impedance(IN/Out)		50		Ω
RF Input Power			+30	dBm

Mechanical Specifications

Input Connector	2.92mm Female (Field Replaceable)
Output Connector	2.92mm Female (Field Replaceable)
Length	0.59in [14.99mm]
Width	0.63in [16mm]
Height	0.39in [9.91mm]
Weight	0.03lbs

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, 18 GHz to 40 GHz, 2 dB Fixed Equalizing Value, 2 dB Loss, Max Pin +30 dBm, Field Replaceable 2.92mm PE70A9014](#)



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Environmental

Temperature
Operating Range
Storage Range

-20 to +60 °C
-40 to +65 °C

Humidity

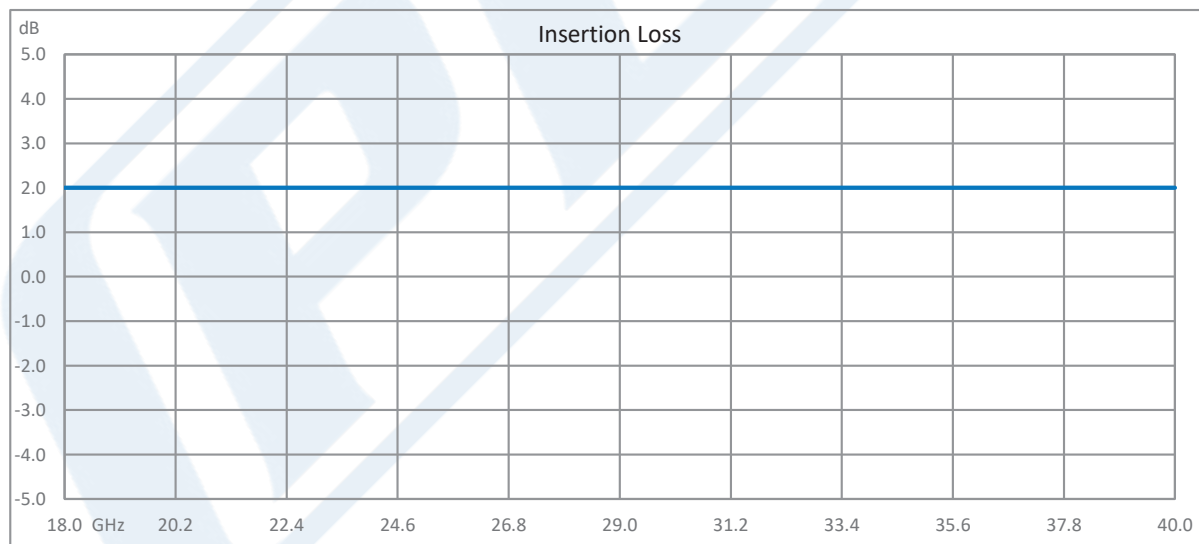
95% Non-Condensing

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

Plotted and Other Data

Notes:

- Values at +25 °C, sea level



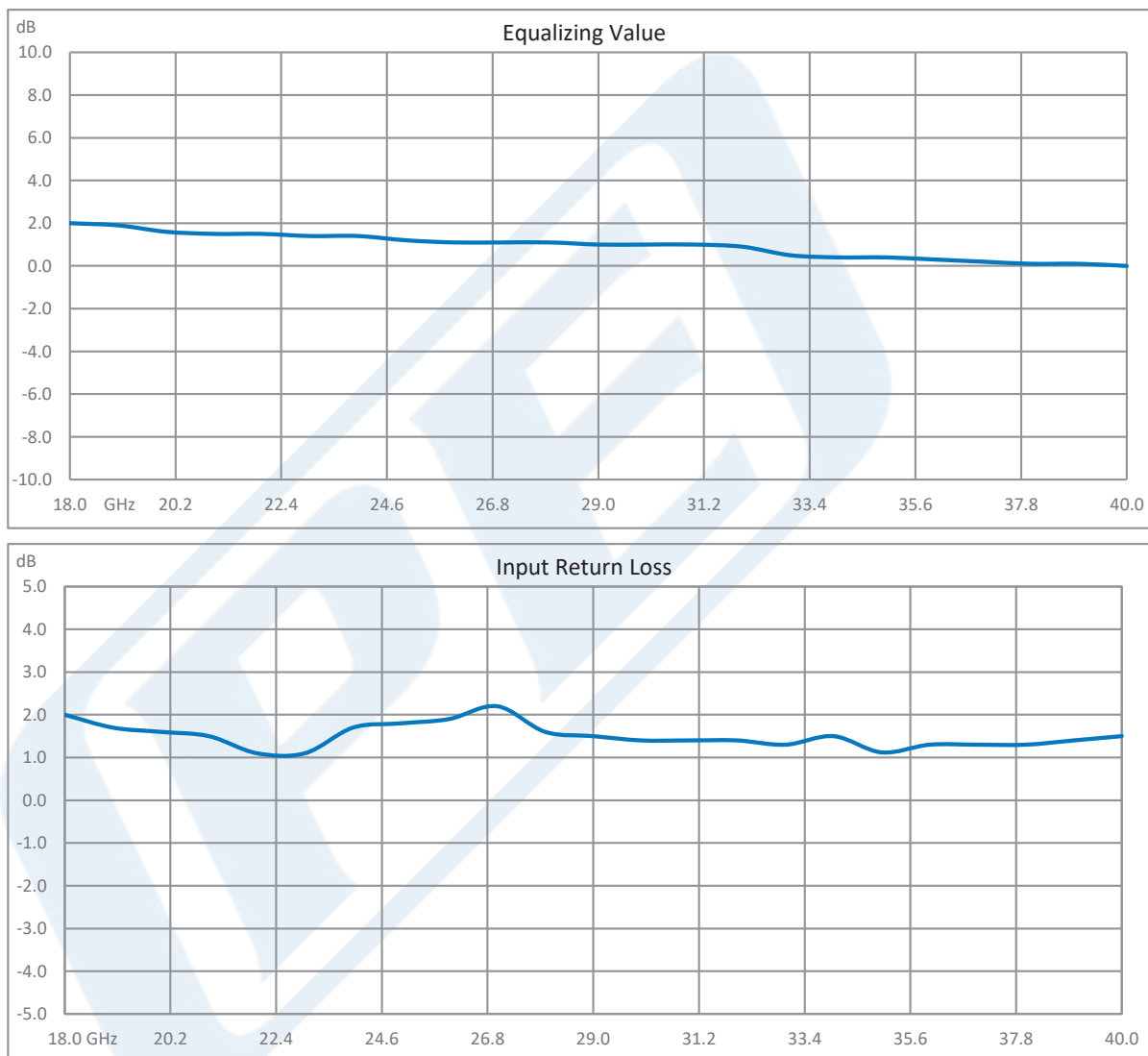
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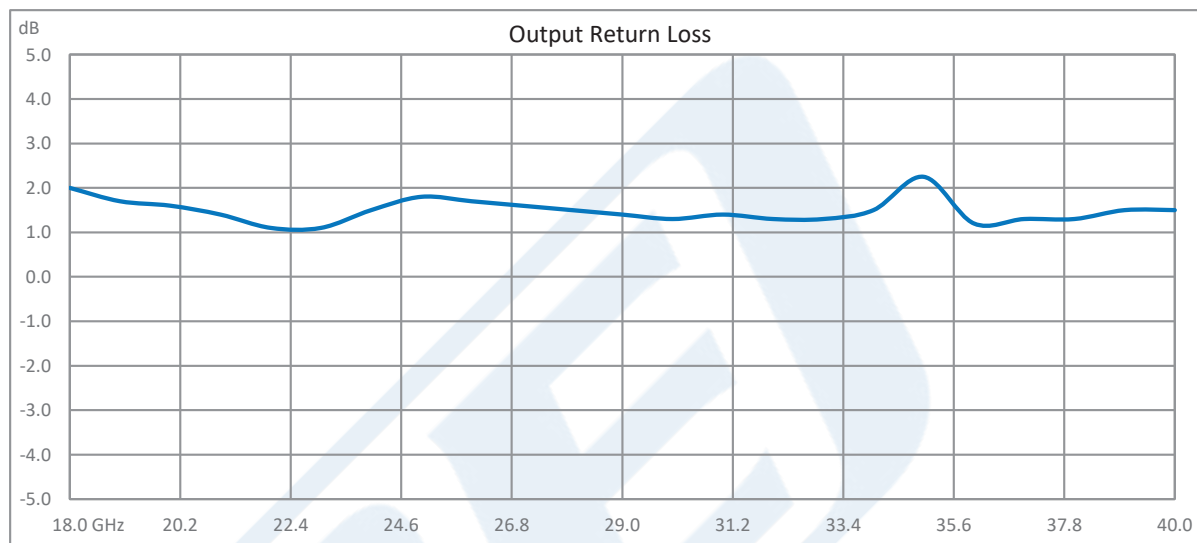
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Positive Slope Equalizer, 18 GHz to 40 GHz, 2 dB Fixed Equalizing Value, 2 dB Loss, Max Pin +30 dBm, Field Replaceable 2.92mm from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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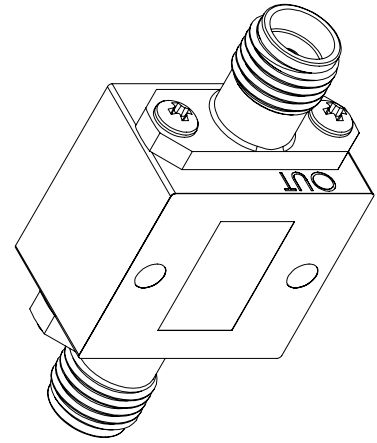
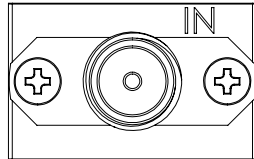
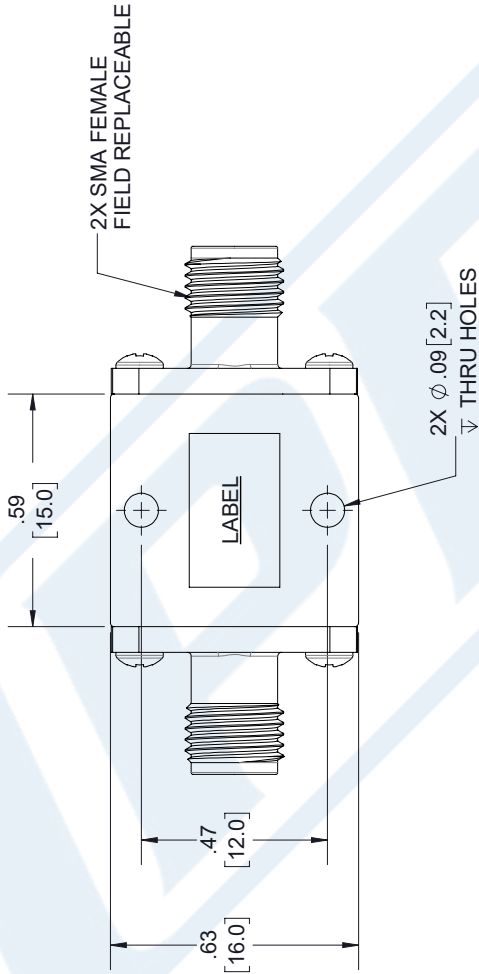
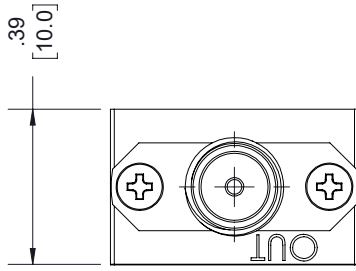
URL: <https://www.pasternack.com/pe70a9014-p.aspx>

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PE70A9014 CAD Drawing

Positive Slope Equalizer, 18 GHz to 40 GHz, 2 dB Fixed Equalizing Value, 2 dB Loss, Max Pin +30 dBm, Field Replaceable 2.92mm

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



LABEL:

PASTERNAK
PE70A9014
D/C: YYWW

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SCALE N/A		REV A	
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SIZE A	CAGE CODE 53919	DRAWN BY MVEERAPPAN	ITEM NO. PE70A9014

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

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% / -0

ALL DIMENSIONS SHOWN
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