## Negative Slope Equalizer, 2 GHz to 6 GHz, 6 dB Fixed Equalizing Value, 0.8 dB Loss, Max Pin 250 mW, SMA



## TECHNIGAL DATA SHEET

The PE70A9022 is a Negative Slope Equalizer module that covers a frequency range from 2 GHz to 6 GHz and exhibits a fixed attenuation response that decreases linearly with frequency. The 50 Ohm design has an equalizing value of 6 dB typical at 6 GHz . Negative slope equalizers are particularly useful in compensating the gain slope in systems where large amounts of cabling may cause exessive loss at higher frequencies over the operating band. Impressive typical performance includes low insertion loss of $0.8 \mathrm{~dB}, 1.8: 1 \mathrm{VSWR},+/-0.5 \mathrm{~dB}$ linearity, and maximum RF input power handling of +24 dBm . The rugged and compact package design supports field replaceable SMA female connectors, operates across a wide temperature range of $-55^{\circ} \mathrm{C}$ to $+95^{\circ} \mathrm{C}$, and meets MIL-E-5400 and MIL-E-16400 environmental requirements.

## Features

- Negative Slope Equalizer Module
- Frequency Range 2 GHz to 6 GHz
- 6 dB Fixed Equalizing Value
- Insertion loss 0.8 dB typ
- VSWR 1.8:1 typ
- Linearity +/- 0.5 dB
- Maximum RF Input Power +24 dBm
- Operational Temperature Range $-55^{\circ} \mathrm{C}$ to $+95^{\circ} \mathrm{C}$
- Field Replaceable SMA Female Connectors
- Rugged Mil Grade Aluminum Package Design
- Designed to meet MIL-E-5400 and MIL-E 16400 environmental requriements


## Applications

- Gain Slope Compensaton in Systems wtih excessive loss at hinger freqencies over the Operating Band
- Aerospace \& Defense
- Test \& Measurement
- Microwave Radio Systems
- Military \& Commercial Communication Systems
- Research \& Development

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
| :--- | :---: | :---: | :---: | :---: |
| Frequency Range | 2 |  | 6 | GHz |
| Small Signal Insertion Loss | 0.8 |  | dB |  |
| Equalizing Type | Negative |  |  |  |
| Equalizing Value | 6 |  |  |  |
| Input VSWR | $1.8: 1$ |  |  |  |
| Output VSWR | $1.8: 1$ |  |  |  |
| Impedence(IN/Out) | 50 | 24 | dBm |  |
| RF Input Power |  | dB |  |  |
| Linearity | $+/-0.5$ |  |  |  |

## Mechanical Specifications

Input Connector
Output Connector
Length
Width

SMA Female (Field Replaceable)
SMA Female (Field Replaceable)
0.59in 14.99mm
0.63in 16mm

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Negative Slope Equalizer, 2 GHz to $6 \mathrm{GHz}, 6 \mathrm{~dB}$ Fixed Equalizing Value, 0.8 dB Loss, Max Pin 250 mW , SMA PE70A9022

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Height
Weight

## Environmental

Temperature
Operating Range
Storage Range
0.39in 9.91 mm
0.03 lbs
-55 to +95 deg C -65 to +125 deg $C$

Compliance Certifications (see for current document)

## Plotted and Other Data

Notes:

- Values at $+25^{\circ} \mathrm{C}$, sea level


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URL: https://www.pasternack.com/Aegative-slope-equalizer-2-ghz-to-6-ghz-field-replaceable-sma-pe70a9022-p.aspx

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