

# New Product Announcement!

High Dynamic Range

## Monolithic IF Amplifier

PSA-0012+

50Ω 0.05 to 6 GHz

### The Big Deal

- Ideal IF Amplifier
  - Low Gain
  - Low Noise Figure
  - High Output Power
- Wide band
- Miniature Package



CASE STYLE: CA1389

Pricing: **\$1.75** (QTY 50)

### Product Overview

The PSA-0012+ is an advanced wide band, high dynamic range, low noise, high IP3, high output power, monolithic amplifier. Manufactured using E-PHEMT\* technology enables it to work with a single positive supply voltage.

### Key Features

Feature	Advantages
Ideal Combined Performance Low Noise: 2.3 dB High IP3: +35 dBm High P1dB: +22 dBm Low Gain: 15dB	The PSA-0012+ design is optimized for use in critical IF Amplifier applications having an ideal combination of Low Gain, Low Noise, and High Output Power.
Wide band operation 50 MHz to 6000 MHz	Operating over a broad frequency range, the PSA-0012+ covers a wide range of typical IF bands making this amplifier ideal for use in a variety of applications.
Excellent Return Loss Input: 12 dB up to 4 GHz Output: 15 dB up to 5 GHz	With 12 dB input and 15 dB output return loss, the PSA-0012+ can be integrated into critical circuits with confidence that VSWR interactions with input and output components will have minimum affect on performance.
May be a replacement for MAALSS0012 <sup>a,b</sup>	The PSA-0012+ is pin-for-pin compatible with the M/A-Com IF Amplifier and provides comparable performance making it an ideal replacement.

Notes:

a. Suitability for model replacement within a particular system must be determined by and is solely the responsibility of the customer based on, among other things, electrical performance criteria, stimulus conditions, application, compatibility with other components and environmental conditions and stresses.

b. The M/A COM part number is used for identification and comparison purposes only.



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IF/RF MICROWAVE COMPONENTS

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp).

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