

GPS Low Noise Amplifier



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[Inquiry](#)

Manufacturer: [MACOM Technology Solutions](#)

Package/Case: SOP-8

Product Type: Amplifier ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

MACOM's MAALSS0042 is a high performance GaAs MMIC low noise amplifier in a lead-free SOIC8-lead surface mount plastic package. The MAALSS0042 employs a monolithic 3-stage self bias design and a simple external matching network to obtain minimum noise figure. The MAALSS0042 is ideally suited for use where low noise figure, high gain, high dynamic range and low power consumption are required. Typical applications include receiver front ends in the Global Positioning System (GPS) market, as well as standard gain blocks, buffer amps, driver amps, and IF amps in both fixed and portable systems. MACOM'S MAALSS0042 is fabricated using a mature 0.5-micron gate length GaAs process. The process features full passivation for increased performance reliability.

Key Features

- Low Noise Figure: 1.15 dB
- RoHS* Compliant Version of AM50-0002
- 260°C Reflow Compatible
- Halogen-Free "Green" Mold Compound
- 100% Matte Tin Plating over Copper
- Lead-Free SOIC-8 Package
- High Dynamic Range
- Low Power Consumption: 5V, 20 mA
- High Gain: 27 dB
- ISM
- Wireless Networking and Communication

Application

- Output P1dB: 1 dBm
- NF: 1.2 dB
- Bias Voltage: 5 V
- OIP3: 13 dBm
- Bias Current: 20 mA
- Gain: 27 dB
- Min Frequency: 1,500 MHz
- Max Frequency: 1,600 MHz

Recommended For You

MAAMSS0044

MACOM Technology Solutions

QFN

MAAM-008863-TR1000

MACOM Technology Solutions

QFN

MAAMSS0044TR

MACOM Technology Solutions

QFN

MAAM-011177

MACOM Technology Solutions

TSSOP

MAAM-008821-TR1000

MACOM Technology Solutions

PQFN12

MAAM-011177-TR1000

MACOM Technology Solutions

BGA

MAAM-009450-TR3000

MACOM Technology Solutions

QFN

M02049G-14

MACOM Technology Solutions

QFN

M02040G-15

MACOM Technology Solutions

QFN

M02044CG-31

MACOM Technology Solutions

QSOP16

M02042G-4D03-T

MACOM Technology Solutions

SMD

M02049G-15

MACOM Technology Solutions

QFN

M02046G-14

MACOM Technology Solutions

SSOP16

M02050G-14

MACOM Technology Solutions

QFN

M02040G-14

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