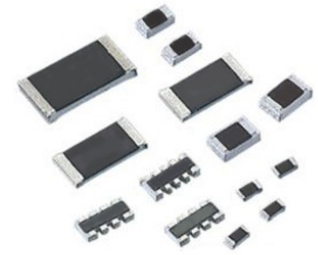


RF Amp Single Distributed Amplifier 20GHz 5.5V 4-Pin Die Gel



Images are for reference only

[Inquiry](#)

Manufacturer: [MACOM Technology Solutions](#)

Package/Case: SMD

Product Type: Amplifier ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

MACOM's 18.0-50.0 GHz GaAs MMIC distributed amplifier has a small signal gain of 17.0 dB with a noise figure of 5.0 dB across the band. The device also includes 30.0 dB gain control and a +15 dBm P1dB compression point. This MMIC uses M/A-COM Tech's GaAs PHEMT device model technology, and is based upon electron beam lithography to ensure high repeatability and uniformity. The chip has surface passivation to protect and provide a rugged part with backside via holes and gold metallization to allow either a conductive epoxy or eutectic solder die attach process. This device is well suited for microwave, millimeter-wave and wideband military applications.

Key Features

Ultra Wide Band Driver Amplifier

RoHS* Compliant

260°C Reflow Compatible

100% Visual Inspection to MIL-STD-883 Method 2010

100% On-Wafer RF, DC and Output Power Testing

30 dB Gain Control

5.0 dB Noise Figure

17.0 dB Small Signal Gain

Fiber Optic Modulator Driver

Aerospace and Defense

ISM

Application

Min Frequency: 18,000 MHz

Max Frequency: 50,000 MHz

Gain: 17 dB

Gain Flatness: 1 dB

NF: 5 dB

OIP3: 24 dBm

Output P1dB: 15 dBm

Bias Voltage: 5 V

Bias Current: 160 mA

Recommended For You

M4TH

MACOM Technology Solutions
TO-8

MASW-007107-TR3000

MACOM Technology Solutions
PDFN-8

AT-283-PIN

MACOM Technology Solutions
CR-16

MAAD-007086-000100

MACOM Technology Solutions
SOP24

MAAD-000523-TR1000

MACOM Technology Solutions
QFN

MAT10030

MACOM Technology Solutions
SMD

MAATSS0017

MACOM Technology Solutions
SSOP16

MAAVSS0007TR

MACOM Technology Solutions
SOP-8

MAT10010

MACOM Technology Solutions
TSSOP

MAATSS0015

MACOM Technology Solutions
SOP16

MAT10020

MACOM Technology Solutions
SOP16

MASW-000834-13560T

MACOM Technology Solutions
QFN

MASW-007921-TR3000

MACOM Technology Solutions
PDFN8

NPA1008

MACOM Technology Solutions
QFN

MA4SW210B-1

MACOM Technology Solutions
SMD