
MACOM Announces New Wideband Amplifier Covering 100 kHz up to 50 GHz for 5G Test and Measurement Applications

- *MAAM-011238 is well suited for 5G Test and Measurement instrumentation scaling to millimeterwave (mmW) frequencies*
- *Positive gate bias eliminates the need for a negative voltage*
- *MACOM's new wideband amplifier is available to customers today in DIE and packaged versions for maximum assembly flexibility*

Lowell, Massachusetts, June 3, 2019— [MACOM Technology Solutions Inc.](#) (“MACOM”), a leading supplier of semiconductor solutions, today announced a new wideband distributed amplifier with the introduction of the [MAAM-011238](#), offered in both [bare-DIE](#) and Surface Mount packaged formats. Well suited for use in 5G test and measurement (T&M) equipment, the MAAM-011238 gives system designers the agility to leverage a single amplifier for 5G applications spanning sub-6 GHz to mmW frequencies.

The [MAAM-011238](#) amplifier supports wideband operation from 100 kHz up to 50 GHz (67.5 GHz for the Bare-DIE version) with typical gain of 14 dB at 30 GHz. The input and output are fully matched at 50 Ω with typical return loss of 10 dB across the band. The overall ease of use for customers is enhanced utilizing a positive gate bias, thereby eliminating the need for a negative voltage supply and bias sequencer. The MAAM-011238's integrated power detector further simplifies system designs while preserving valuable board space.

The MAAM-011238 aims to deliver an effective broadband amplifier solution for 5G sub-6 GHz to mmW testing. The [MAAM-011238](#) and [MAAM-011238-DIE](#) are available to customers today. MACOM will showcase its RF portfolio at the International Microwave Symposium (IMS) 2019, Booth #532 in Boston, MA, U.S.A., June 4th – 6th. MACOM's booth will feature new product solutions optimized for 5G, wireless basestations, radar, T&M and industrial, scientific and medical (ISM) applications. To make an appointment, contact your local sales representative. For more information about MACOM's RF technology solutions, please visit: [www.macom.com](#).

Typical part number performance: (* at 6V, 30GHz)

| Parameters | MAAM-011238 | MAAM-011238-DIE |
|-------------------|------------------|--------------------|
| Frequency | 100 kHz – 50 GHz | 100 kHz – 67.5 GHz |
| *Gain (dB) | 14 | 15 |
| *P1dB (dBm) | 17 | 18 |
| *P3db (dbm) | 18.5 | 20 |
| *OIP3 (dBm) | 26 | 26 |
| *NF (dB) | 6 | 5.5 |
| Bias Voltage (V) | 4-6 | 4-6 |
| Bias Current (mA) | 125-150 | 125-150 |
| Package | 5mm 12-Lead SMT | 2.1mm x 1.05mm |

ABOUT MACOM:

MACOM designs and manufactures semiconductor products for Datacenter, Telecommunication and Industrial and Defense applications. Headquartered in Lowell, Massachusetts, MACOM has design centers and sales offices throughout North America, Europe and Asia. MACOM is certified to the ISO9001 international quality standard and ISO14001 environmental management standard.

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