MACOM Launches New 15 W X-Band High Power Amplifier for Radar Applications

GaAs MMIC Amplifier Boasts up to 42 dBm of Peak Power and 43 % Power Added Efficiency

Lowell, Mass., July 23, 2014, - M/A-COM Technology Solutions Inc. (“MACOM”), a leading supplier of high performance RF, microwave, and millimeter wave products, today announced a new high power MMIC amplifier ideal for X-Band communication and radar applications.

The MAAP-015036, a two stage 8.5 – 10.5 GHz GaAs MMIC power amplifier, has a saturated pulsed output power of 42 dBm, a large signal gain of 17 dB and a typical 43 % power added efficiency. The power amplifier can be biased using a direct gate voltage or using an on-chip gate bias circuit. Furthermore, the device offers dual sided bias architecture for optimum flexibility in assembly and board design.

“The MAAP-015036 is our highest power amplifier in our family of new, high efficiency GaAs MMIC X-Band power amplifiers,” said Paul Beasly, Product Manager. “The combination of high power, high gain and excellent power added efficiency performance, along with versatile biasing options makes the device ideal for a wide range of X-band pulsed applications such as marine, weather and surface-movement radar, as well as perimeter security and communication links”.

The table below outlines typical performance:

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Units</th>
<th>MAAP-015036</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>GHz</td>
<td>8.5-10.5</td>
</tr>
<tr>
<td>Saturated Output Power</td>
<td>dBm</td>
<td>42</td>
</tr>
<tr>
<td>PAE</td>
<td>%</td>
<td>43</td>
</tr>
<tr>
<td>Small Signal Gain</td>
<td>dB</td>
<td>17</td>
</tr>
<tr>
<td>Bias Voltage</td>
<td>V</td>
<td>8.0</td>
</tr>
</tbody>
</table>

Samples of the MAAP-015036 are available from stock. Final datasheets and additional product information can be obtained from the MACOM website at: www.macom.com
PRESS RELEASE

ABOUT MACOM:

M/A-COM Technology Solutions Holdings, Inc. (www.macom.com) is a leading supplier of high performance analog RF, microwave, and millimeter wave products that enable next-generation Internet and modern battlefield applications. Recognized for its broad catalog portfolio of technologies and products, MACOM serves diverse markets, including high speed optical, satellite, radar, wired & wireless networks, CATV, automotive, industrial, medical, and mobile devices. A pillar of the semiconductor industry, we thrive on more than 60 years of solving our customers' most complex problems, serving as a true partner for applications ranging from RF to Light.

Headquartered in Lowell, Massachusetts, M/A-COM Tech is certified to the ISO9001 international quality standard and ISO14001 environmental management standard. M/A-COM Tech has design centers and sales offices throughout North America, Europe, Asia and Australia.

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For more information about MACOM, please visit www.macom.com follow @MACOMtweets on Twitter; join MACOM on LinkedIn, or visit the MACOM YouTube Channel.

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