

MACOM Introduces S-Band 7 Watt Pulsed High Power Amplifier

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Robust and Balanced Performance for Aviation and Weather Radar Applications

LOWELL, Mass.--(BUSINESS WIRE)-- M/A-COM Technology Solutions Holdings, Inc. ("MACOM"), a leading supplier of high-performance RF, microwave, millimeterwave and photonic products, today announced the release of a high power pulsed amplifier designed for Civil Air Traffic Control and Weather Radar applications. The device can be used individually, or in a complete MACOM chipset solution.



MACOM Introduces S-Band 7 Watt Pulsed High Power Amplifier (Photo: Business Wire)

The [MAAP-011022](#) is a balanced high power amplifier covering 2.7-3.0 GHz in a 6mm PQFN 28-lead SMT package. The device boasts 7 W of pulsed power, 23 dB small signal gain and is designed to provide the customer with very rugged performance under load mismatch. The MMIC's balanced architecture enables a very robust solution with excellent return loss across the frequency band and high performance under demanding VSWR load conditions.

With +10 V bias operation and fifty OHMS impedance, this IC utilizes one of MACOM's highly advanced 0.5 μ m pHEMT processes to enable increased integration at the MMIC level. The MAAP-011022 is encapsulated in a halogen-free, environmentally friendly mold compound. It is RoHS compliant and 260° reflow compatible, operating at an 8% duty cycle.

"The MAAP-011022 is ideally suited to S-band pulsed aviation and weather radar applications," said Paul Beasley, Product Manager. "The device provides a fully matched, SMT solution with highly rugged balanced configuration that we believe will perform well under demanding conditions."

Production quantities and samples of MAAP-011022 are available from stock. Final datasheets and additional product information can be obtained from the MACOM website at: www.macom.com

The table below outlines typical performance:

Parameter	Units	MAAP-011022
Frequency	GHz	2.7-3.0
Gain	dB	23.5
P1dB	dBm	37.5
Input Return Loss	dB	20
Output Return Loss	dB	20
Drain Current	A	2.5
PAE	%	28

Final datasheets and additional product information can be obtained from the MACOM website at: www.macom.com

ABOUT MACOM:

M/A-COM Technology Solutions Holdings, Inc. (www.macom.com) is a leading supplier of high-performance RF, microwave, millimeterwave and photonic 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, 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, MACOM is certified to the ISO9001 international quality standard and ISO14001 environmental management standard. MACOM has design centers and sales offices throughout North America, Europe, Asia and Australia.

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Photos/Multimedia Gallery Available: <http://www.businesswire.com/multimedia/home/20150114005027/en/>

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