Broadband Amplifier Exhibits High Linearity in Plastic Surface Mount Package

M/A-COM Technology Solutions Inc. (M/A-COM Tech) introduced the MAAM-009563, a two-stage HBT driver amplifier for cellular and WiMAX infrastructure applications. This driver amplifier covers a broad frequency range of 250 to 3000 MHz with excellent linearity of 47 dBm output IP3 and typical gain of 19.5 dB.

The broad operation is achieved using external matching components, where component values are selected to center the 200 MHz instantaneous bandwidth within the overall frequency range. The lead-free SOIC-8EP surface mount plastic package is RoHS compliant and compatible with solder reflow temperatures up to 260°C. The ESD susceptibility achieves a class 2 ESD rating.

“The MAAM-009563 HBT driver amplifier is yet another example of M/A-COM Tech developing industry-leading amplifiers to meet customer and market requirements,” said Jack Redus, Product Manager. “This highly efficient amplifier delivers high linearity and gain, and lower power consumption to cover a broad frequency range for infrastructure applications. In addition to the MAAM-009563 amplifier, M/A-COM Tech offers a family of RF driver amplifiers covering similar frequency ranges at different power levels to meet a variety of requirements.”

Engineering samples, sample boards and production devices are available today from stock. Technical support is also available from M/A-COM Tech’s applications engineers at 978.656.2539. Final datasheets and additional product information can be obtained from the M/A-COM Tech website at macomtech.com.

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