

## Upconverting Mixer Supports all LTE/Cellular Bands from 400 MHz to 2.7 GHz

A new wide bandwidth active upconverting mixer, the LT5578 from Linear Technology, delivers high dynamic range performance from 400 MHz to 2.7 GHz, supporting all of the allocated LTE (Long-Term Evolution) broadband wireless services. At 900 MHz, the mixer offers 27 dBm Output IP3 linearity and best-in-class noise floor of -160.5 dBm/Hz at an output level of -5 dBm, enabling outstanding transmitter dynamic range. In addition, the mixer has 1.4 dB conversion gain with integrated RF balun transformers that provide a single-ended RF output and LO (Local Oscillator) input to simplify designs while reducing external component count. Moreover, the device's LO input is internally buffered, requiring a drive level of only -1 dBm. This results in an outstanding LO-to-RF leakage of -43 dBm. The LT5578 is designed to satisfy the requirements of next generation LTE wireless basestation transmitters and improves the performance of wireless equipment.

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<http://www.wirelessdesignmag.com/product-releases/2009/10/upconverting-mixer-supports-all-lte/cellular-bands-400-mhz-27-ghz>