

## A low-cost packaged MMIC chip set for 5.8 GHz ISM band applications

---

*M.D. Pollman, C. Trantanella, M. Shifrin, V. Aparin and D. Upton. "A low-cost packaged MMIC chip set for 5.8 GHz ISM band applications." 1997 Radio Frequency Integrated Circuits (RFIC) Symposium 97. (1997 [RFIC]): 33-36.*

This paper describes a packaged MMIC chip set which was developed for low-cost communication equipment operating in the unlicensed 5.725 to 5.850 GHz Industrial, Scientific, and Medical (ISM) band (FCC rule 15.247). The GaAs MMIC chip set described consists of: (1) Transmit/Receive (T/R) switch, (2) low noise amplifier (LNA), (3) double-balanced downconverter mixer, (4) QPSK/BPSK modulator, and (5) variable-gain medium power amplifier. The MMIC designs are discussed and the measured performance of the packaged chip set is presented.

 [Return to main document.](#)