

# Abstracts

## An X-Band Low Cost GaAs Monolithic Transceiver

*W. Yau, M.I. Herman, G. Mendolia, C.F. Wen and J.C. Chen. "An X-Band Low Cost GaAs Monolithic Transceiver." 1990 MTT-S International Microwave Symposium Digest 90.2 (1990 Vol. II [MWSYM]): 827-830.*

A low cost X-band transceiver has been developed for multi-purpose applications. The transceiver, constructed using monolithic transceiver and power MMIC chips, is capable of delivering a transmitted power of greater than 23 dBm. Its bandwidth is voltage tunable to over 600 MHz. The control voltage of the VCO can be modulated and is applicable for FMCW or pulsed radar applications. The entire transceiver, including its transmit/receive microstrip patch antennas and the dc circuitry, is packaged in a housing with dimensions of 3.5 x 2.0 x 2.0 inches. Due to the high yield and low fabrication cost of the monolithic transceiver chips, this unit is highly suitable for high volume production.

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