

## Design and characterization of MMIC active cold loads (2000 Vol. I [MWSYM])

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*P.M. Buhles and S.M. Lardizabal. "Design and characterization of MMIC active cold loads (2000 Vol. I [MWSYM])." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 29-32.*

This paper reports the first broadband monolithic microwave integrated circuit (MMIC) active cold loads. The fabricated loads demonstrate state-of-the-art temperatures of 90 K over the 2-10 GHz range and 125 K over the 10-26 GHz range. The MMICs were fabricated on 100 micron GaAs substrates using 0.15 micron GaAs Metamorphic HEMT technology. In addition, contemporary topologies for cold load design have been evaluated.

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