

Abstracts

Design and characterization of MMIC active cold loads (2000 [RFIC])

P.M. Buhles and S.M. Lardizabal. "Design and characterization of MMIC active cold loads (2000 [RFIC])." 2000 Radio Frequency Integrated Circuits (RFIC) Symposium 00. (2000 [RFIC]): 221-225.

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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