

Abstracts

A Fully Integrated SIS Mixer for 75-110 GHz

A.R. Kerr, S.-K. Pan, S. Whiteley, M. Radparvar and S. Faris. "A Fully Integrated SIS Mixer for 75-110 GHz." 1990 MTT-S International Microwave Symposium Digest 90.2 (1990 Vol. II [MWSYM]): 851-854.

This paper describes an integrated SIS mixer with low noise over the full 75-110 GHz (WR-10) waveguide band. The mixer uses Nb/A1-A1/sub 2/O/sub 3//Nb trilayer technology on a fused quartz substrate. It has no adjustable tuning elements, and the design is suitable for integration with other planar components.

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