

Abstracts

X-Band Integrated Circuit Mixer with Reactively Terminated Image (1968 [MWSYM])

K.M. Johnson. "X-Band Integrated Circuit Mixer with Reactively Terminated Image (1968 [MWSYM])." 1968 G-MTT International Microwave Symposium Digest and Technical Program 68.1 (1968 [MWSYM]): 131-138.

The development of the Schottky barrier diode along with microwave integrated circuit techniques makes possible miniature high performance microwave detectors. This paper describes a low noise microwave integrated circuit mixer using Schottky barrier diodes and reactively terminated image with a 500 MHz thin film IF preamplifier. The entire mixer-IF preamplifier occupies an area of only 0.38 square inches and has a noise figure of 6.7 dB.

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