

Abstracts

A 30-180GHz Harmonic Mixer-Receiver

B.K. Kormanyos and G.M. Rebeiz. "A 30-180GHz Harmonic Mixer-Receiver." 1992 MTT-S International Microwave Symposium Digest 92.1 (1992 Vol. I [MWSYM]): 341-344.

We have combined integrated circuit antenna technology with microwave circuit design and a back-to-back Schottky diode chip to build a wideband millimeter-wave harmonic mixer-receiver. The design is planar, very simple to build and yields excellent performance from 30-180 GHz. Application areas include wideband early warning systems and search and rescue applications and for extending the range of spectrum analyzers and power meters to the millimeter-wave region.

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