

Abstracts

An FM-CW Radar Module with Front-End Switching Heterodyne Receiver

T. Saito, N. Okubo, Y. Kawasaki, O. Isaji and H. Suzuki. "An FM-CW Radar Module with Front-End Switching Heterodyne Receiver." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 713-716.

We have developed a 60-GHz FM-CW radar module that generates sidebands by switching a HEMT front-end. Our module also uses heterodyne detection for FM-AM conversion noise reduction. The module's signal to noise ratio was 20 dB better than a previously designed homodyne FM-CW radar module.

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