

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

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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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