Abstracts

Radar Sensor for Automotive Collision Prevention

T. Tamama, A. Iwabe, K. Ban, M. Tsudo, S. Mitsui, K. Baba, M. Kiyoto, H. Endo and N. Fujiki. "Radar Sensor for Automotive Collision Prevention." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 168-170.

A pulse-Doppler radar of 20 ns pulsewidth was developed and tested as an automotive collision prevention sensor. A simple but effective super-heterodyne structure was realized by the use of one FM Gunn oscillator as both the transmitter and the local oscillator. It is a unique feature of the system that the IF signal is coherent in every pulse repetition, which contributes to the realization of a pulse-Doppler system in a very simple configuration. A micro-computer is utilized in the signal processor unit which calculates danger evaluation and false alarm prevention.

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