

Abstracts

Novel 24 GHz FMCW front-end with 2.45 GHz SAW reference path for high-precision distance measurements

M. Nalezinski, M. Vossiek and P. Heide. "Novel 24 GHz FMCW front-end with 2.45 GHz SAW reference path for high-precision distance measurements." 1997 MTT-S International Microwave Symposium Digest 1. (1997 Vol. 1 [MWSYM]): 185-188.

A new 24 GHz non-linear FMCW radar is reported, which features a high-precision 2.45 GHz SAW (Surface Acoustic Wave) reference and adaptively compensates for phase errors by software. Kernel functions are implemented at a 2.45 GHz IF level reducing the expense of critical RF components in order to realize a fully planar front-end.

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