

Abstracts

Use of an SAW Multiplexer in FMCW Radar System

L.P. Solie and M.D. Wohlers. "Use of an SAW Multiplexer in FMCW Radar System." 1981 Transactions on Microwave Theory and Techniques 29.5 (May 1981 [T-MTT] (Joint Special Issue on Surface-Acoustic-Wave Device Applications)): 419-423.

This paper describes the application of a SAW multiplexer to develop range line resolution in FMCW millimeter-wave radar systems. The basic system design concept as well as test results are presented describing the function of the SAW multiplexer in developing the multiple-range cells in the millimeter-wave terminal guidance seeker. The SAW multiplexer has 16 channels and uses the offset multistrip coupler technique for sorting the acoustic beams into various acoustic tracks according to frequency.

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