

Abstracts

A 94-GHz Radar for Space Object Identification (Dec. 1969 [T-MTT])

L.A. Hoffman, K.H. Hurlbut, D.E. Kind and H.J. Wintroub. "A 94-GHz Radar for Space Object Identification (Dec. 1969 [T-MTT])." 1969 Transactions on Microwave Theory and Techniques 17.12 (Dec. 1969 [T-MTT]): 1145-1149.

A feasibility demonstration radar system that operates at 94 GHz is outlined. A major goal of the program is the obtaining of radar echoes from orbiting objects for space object identification purposes. The radar is a linear FM pulse compression system with an eventual pulse time (1 ms)-bandwidth (1 GHz) product of 10^6 . Experimental results of short range tests are discussed as well as details of the phase-locked loop linearizing system employed.

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