

New type of high-speed pulse radar based on the NRD guide technology at 60 GHz band

F. Kuroki, M. Sugioka, T. Danhara, H. Sato and T. Yoneyama. "New type of high-speed pulse radar based on the NRD guide technology at 60 GHz band." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1961-1964.

New type of pulse radar front end has been fabricated in an integrated manner at 60 GHz by using the NRD guide. The main emphasis is placed on high-speed operation of the up-converter incorporated in the radar. A short-range detection of centimeter order has been performed for an error range of less than 4 cm because the up-converter has the capability of handling a narrow pulse with a width of 5 ns.

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