Abstracts

Multi-beam automotive radar front end using non-contact cylindrical NRD switch

T. Tanizaki, H. Nishida, T. Nishiyama, H. Yamada, K. Sakamoto and Y. Ishikawa. "Multi-beam automotive radar front end using non-contact cylindrical NRD switch." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 521-524.

We have developed a multi-beam automotive FM-pulse radar font end for the 60 GHz band by using new NRD technologies. The multi-beam antenna consists of a dielectric lens and a non-contact cylindrical NRD switch with four dielectric resonator radiators and a motor. The millimeter-wave circuit consists of our original NRD guide components. The size of the equipment is W125 mm/spl times/H80 mm/spl times/D74 mm. This is expected to be applicable for automotive ICC applications.

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