

Optimization and Design of Millimeter Wavelength Phase Shifters

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Future millimeter wavelength radar and communication systems will require phase control components. Among these devices, the reciprocal phase shifters seem of great interest. A theoretical optimization of millimeter wavelength phase shifters is described. Design and test data for a new low loss reciprocal ferrite phase shifter in 4 millimeter wavelengths are presented. A figure of merit of about $360^\circ/1.4$ dB is measured at 70 GHz.

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