Abstracts

Analysis of a Microwave Power Amplifier Using a Combiner/Divider with Circular Cavities

Based on the discrete Fourier transformation, equations have been developed for the analysis of a microwave power amplifier consisting of unit amplifiers and a power combiner/divider with circular cavities. The equations are obtained by taking account of the spurious-mode excitations to the cavity from unit amplifiers. By examining the gain of the power amplifier with a failed unit amplifier, the equations can be used to evaluate the effect of the slits in the combiner/divider on graceful degradation.

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