

Analysis of Microstrip Line to Waveguide End Launchers

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An analysis of a microstrip line to waveguide end launcher is presented. The expression for input impedance is derived through the self-reaction concept with the assumption of a sinusoidal current distribution existing in the conductor loop. Three different cases of end launchers are computed for their corresponding input impedances. Comparison between calculated and measured input return loss of an end launcher shows good agreement between theory and experiment at Ka-band frequencies.

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