

A LOW NOISE, ROOM TEMPERATURE 12 GHz PARAMETRIC AMPLIFIER

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Abstract

A low noise, room temperature, wideband parametric amplifier is described which could be used for example in 12 GHz satellite ground station receivers. The amplifier has a gain of 26 dB, a $\frac{1}{2}$ dB bandwidth of 660 MHz and noise temperature between 156 and 171°K.