

Broadband power detector using a circularly-toothed planar logarithmic-periodic antenna

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Abstract

A broadband antenna has been coupled to a planar Schottky diode for the realisation of a sensitive power detector for mm-wave frequencies. The measured response curve is in agreement with calculations and shows values of up to 3000 V/W. However, further work has to concentrate on the accuracy of the sensitivity and the reduction of ripples in the frequency response. Also higher frequencies are targeted and characterisation at THz-frequencies has to be performed.