

Abstracts

Spatial power-combining using CPW-fed bowtie antennas

*L.Q. Sun and R.M. Weikle, II. "Spatial power-combining using CPW-fed bowtie antennas." 1998 *Microwave and Guided Wave Letters* 8.2 (Feb. 1998 [MGWL]): 60-62.*

A new quasi-optical power-combiner geometry consisting of an array of bowtie antennas fed by coplanar waveguide is presented. The bowtie structure provides space to accommodate planar tuning structures as well as multiple devices. An oscillator circuit that includes a heterojunction field-effect transistor (HFET) and coplanar resonator is embedded in one arm of each antenna. Experimental results for a 4/spl times/4 array are provided and an equivalent circuit model used for the array design is described.

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