Abstracts

A Microstrip-Based Unit Cell for Quasi-Optical Amplifier Arrays

N.J. Kolias and R.C. Compton. "A Microstrip-Based Unit Cell for Quasi-Optical Amplifier Arrays." 1993 Microwave and Guided Wave Letters 3.9 (Sep. 1993 [MGWL]): 330-332.

A microwave scale model of an amplifying element suitable for millimeter-wave quasi-optical arrays is presented. Power is guided into the amplifier by short sections of waveguide and then fed into a microstrip based MESFET amplifier with an E-field probe. A second E-field probe couples the output signal into a similar waveguide feed on the back-side of the element. The output waveguide is orthogonal to the input to achieve isolation.

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