Abstracts

A 29.3-GHz Cavity-Enclosed Aperture-Coupled Circular-Patch Antenna for Microwave Circuit Integration

J.A. Navarro, K. Chang, J. Tolleson, S. Sanzgiri and R.Q. Lee. "A 29.3-GHz Cavity-Enclosed Aperture-Coupled Circular-Patch Antenna for Microwave Circuit Integration." 1991 Microwave and Guided Wave Letters 1.7 (Jul. 1991 [MGWL]): 170-171.

A circular-patch antenna fed by an aperture coupled microstrip line has been demonstrated at 29.3 GHz. The patch was enclosed by a cavity to reduce surface-wave interactions in an array environment and to improve heat dissipation when using active devices. The antenna exhibited a 2:1 input VSWR bandwidth of 12% from 27.52 to 30.95 GFz.

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