Abstracts

A perpendicularly-fed patch array for quasi-optical power combining

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A quasi-optical power combining amplifier array employing a perpendicular feed structure is introduced. The amplifier array uses aperture-coupled microstrip patch antennas with a unique feed structure for both the input and output antennas. This feed places the devices and antennas on separate planes, allowing for a smaller unit cell size, a simplified layout, and a minimum interaction between the devices and fields. A 5/spl times/5 amplifier array was designed and fabricated at X-band. Results for the gain and power compression are given.

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