Abstracts

Spatial Power Combining for Millimeterwave Solid State Amplifiers

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A new method for obtaining high power amplification at millimeterwave frequencies using spatial power combining is being developed. The method uses orthogonally polarized fields to isolate the input and output waves of a two-dimensional array of solid state amplifiers. To demonstrate this new technique, a proof-of-concept model was developed using a 69-element array orthogonally polarized elements at 17 GHz.

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