Abstracts

A 36 W, V-band, solid state source

J.J. Sowers, D.J. Pritchard, A.E. White, W. Kong, O.S.A. Tang, D.R. Tanner and K. Jablinskey. "A 36 W, V-band, solid state source." 1999 MTT-S International Microwave Symposium Digest 99.1 (1999 Vol. I [MWSYM]): 235-238 vol.1.

A 36 W, V-band, solid state source with <1 deg/dB of AM/PM distortion has been demonstrated. The source joins low loss RF spatial combining techniques with high thermal capacity, high density, multi-layer substrates, enabling a breakthrough for the generation of millimeter-wave, solid state power. Subsequently, using 0.1 /spl mu/m PHEMT MMICs allows low AM/PM distortion. To the author's knowledge, this paper's result is the highest V-band solid state power recorded.

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