

## 20 W Linear, High Efficiency Internally Matched HBT at 7.5 GHz

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*P.K. Ikalainen, S.-K. Fan and M.A. Khatibzadeh. "20 W Linear, High Efficiency Internally Matched HBT at 7.5 GHz." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 679-682.*

An internally matched HBT has been developed for use in communications systems. An output power of 20 W with 6.5 dB gain and 40% PAE at 7.5 GHz was achieved. Over the 7.25 to 7.75 GHz band minimum output power was 16.5 W with minimum 38% PAE. Two tone testing showed good linearity.

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