

# Abstracts

## Power PHEMT Module Delivers 12 Watts, 40 % P.A.E. Over the 8.5 to 10.5 GHz Band

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*B. Kraemer, R. Basset, P. Chye, D. Day and J. Wei. "Power PHEMT Module Delivers 12 Watts, 40 % P.A.E. Over the 8.5 to 10.5 GHz Band." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 683-686.*

This paper describes performance of power PHEMT technology at X-band. Power PHEMT modules are shown to deliver an average output power of 12.3 watts and an average power-added efficiency (P.A.E.) of 40.8% over the 8.5 to 10.5 GHz frequency range for a 5 module sample size. Data is shown in statistical format. Peak module performance of 13.2 watts output power and 46.1 % P.A.E. within the 8.5 to 10.5 GHz band is also presented. These results show an improvement in P.A.E. of 5 to 10 % over MESFET technology previously presented at X-band.

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