

## Broadband HEMT Amplifier for 26.5 - 40.0 GHz

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*K. Shibata, B. Abe, S. Hori and K. Kamei. "Broadband HEMT Amplifier for 26.5 - 40.0 GHz." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 1011-1014.*

A broadband amplifier operating over 26.5 to 40 GHz has been developed by using 0.25- $\mu\text{m}$  gate HEMTs. The amplifier has been fabricated by cascading five unit amplifiers. Two balanced-type unit amplifiers are used in an input and an output stages to realize good input/output VSWRs. Three single-ended unit amplifiers are installed in the intermediate stages to achieve higher gain. The developed amplifier shows a noise figure of  $\leq 7.0$  dB, a gain of  $18.2 \pm 1.6$  dB and input/output VSWRs of  $\leq 2.0$  over 26.5 to 40 GHz.

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