

Abstracts

A 100-kHz to 50-GHz traveling-wave amplifier IC module

V. Kaman, T. Reynolds, A. Petersen and J.E. Bowers. "A 100-kHz to 50-GHz traveling-wave amplifier IC module." 1999 Microwave and Guided Wave Letters 9.10 (Oct. 1999 [MGWL]): 416-418.

Broad-band microwave packaging of a traveling-wave amplifier with an on-chip bandwidth of 2-50 GHz is described. Techniques to reduce overall insertion losses and to extend the low-frequency cutoff of the amplifier while maintaining gain-flatness are discussed. The packaged amplifier modules exhibit excellent performance from 100 kHz to 50 GHz. They are demonstrated as modulator drivers and receiver amplifiers in a 30-Gbit/s digital optical communication system.

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