

AlGaAs/GaAs HBT limiting amplifier for 10 Gbps optical transmission system

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A 10 Gbit/s limiting amplifier IC for optical transmission system was implemented with AlGaAs HBT technology. Amplifier was designed to support differential input and output. Small signal performance of the packaged IC achieves 26 dB gain and $f_{sub\ 3dB}$ of 8 GHz. A single output has 800 mV/sub p-p/ swing with more than 26 dB dynamic range. The performance of the limiting amplifier was verified through single mode fiber 320 km transmission link test.

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