

Abstracts

Differential precoder IC modules for over-20-Gbit/s optical duobinary transmission systems

M. Yoneyama, K. Yonenaga, Y. Kisaka and Y. Miyamoto. "Differential precoder IC modules for over-20-Gbit/s optical duobinary transmission systems." 1999 MTT-S International Microwave Symposium Digest 99.1 (1999 Vol. 1 [MWSYM]): 189-192 vol.1.

This paper reports on precoder IC modules for 20 Gbit/s and 40 Gbit/s optical duobinary transmission systems that uses production-level 0.2 μm gate-length GaAs MESFETs. The transmitter using the precoder module generates fully encoded 20 Gbit/s optical duobinary signals for the first time and achieves a high receiver sensitivity of -28.6 dBm.

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