

Abstracts

LMDS up- and down-converter MMIC

L. Verweyen, A. Tessmann, Y. Campos-Roca, M. Hassler, A. Bessemoulin, H. Tischer, W. Liebl, T. Grave and V. Gungerich. "LMDS up- and down-converter MMIC." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1685-1688.

For LMDS systems, a single balanced mixer MMIC has been developed for use as an up-converter and image rejection down-converter, using a low cost HEMT technology. At 25.7 GHz LO-frequency, the up and down-conversion losses are 7 dB for an LO power of 5 dBm, with an LO-RF isolation of more than 30 dB.

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