

Abstracts

Effect of substrate modes in 40 Gbit travelling wave LiNbO₃/modulators

K. Goverdhanam. "Effect of substrate modes in 40 Gbit travelling wave LiNbO₃/modulators." 2002 MTT-S International Microwave Symposium Digest 02.2 (2002 Vol. II [MWSYM]): 1285-1288 vol.2.

In this paper, substrate modes which influence the bandwidth of travelling wave LiNbO₃/Mach-Zehnder modulators are reviewed. Criteria for the appropriate choice of RF electrode geometry to minimize losses have been presented. Finally, the effect of backside metalization due to metallic packages has been discussed, along with suitable modifications to mitigate the losses due to the presence of the backside ground.

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