

## Effect of substrate modes in 40 Gbit travelling wave LiNbO/sub 3/ modulators

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In this paper, substrate modes which influence the bandwidth of travelling wave LiNbO/sub 3/ 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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