Abstracts

Characteristics of Coplanar Waveguides with Metal Coating on Multilayer Substrate: Application to Broadband LiNb03:Ti Traveling Wave Light Modulators/Switch

D. Bourreau and P. Guillon. "Characteristics of Coplanar Waveguides with Metal Coating on Multilayer Substrate: Application to Broadband LiNb03:Ti Traveling Wave Light Modulators/Switch." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 1079-1082.

We propose in this paper the design of non symetric electrodes for broadband electrooptic modulator with low drive voltage. Traveling wave electrodes lateraly shifted to reverse the direction of the applied electric field, are used to obtain a more constant phase variation. The finite elements method is used to compute the electrodes characteristics taking into account both the electrodes and the buffer layer thickness. Numerical results are given for LiNb03:Ti substrate at 1.52 µm wavelength.

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