Abstracts

Light dependence of silicon FGCPW transmission lines

S.J. Spiegel and A. Madjar. "Light dependence of silicon FGCPW transmission lines." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1801-1804 vol.4.

The dependence of "finite ground CPW on silicon" properties on light illumination is presented. It is shown that the losses of FGCPW transmission lines increase with the illumination. By removing the passivation layer from the slot areas, the losses of FGCPWs are reduced. The strong dependence of the substrate conductivity on illumination suggests that FGCPWs can be used as devices with available loss and constant insertion phase.

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