

Abstracts

Phase compensation in an optically controlled microwave attenuator

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A microwave attenuator has been developed whose attenuation can be controlled by illuminating the silicon substrate. The phase shift which appeared together with the attenuation can be compensated by a ferrite phase shifter under dc magnetic field to the line. The attenuation characteristics without phase shift are shown by experiments in X band and confirmed theoretically by the spectral domain approach.

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