

Abstracts

A LiNbO₃ Microwave-Optoelectronic Mixer with Linear Performance

G.K. Gopalakrishnan, W.K. Burns and C.H. Bulmer. "A LiNbO₃ Microwave-Optoelectronic Mixer with Linear Performance." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 1055-1058.

A pair of LiNbO₃ based Mach-Zehnder interferometric modulators with performance upto 40 GHz are cascaded in series to build a microwave-optoelectronic mixer. The dynamic range of the mixer is significantly enhanced by biasing the devices at quadrature. The mixer has potential for application in wide-band fiber-optic communication systems.

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