

Abstracts

Wide bandwidth microwave phase detection using optical intensity modulators

P.P. Roberts, G.E. Town and W.E. Wilson. "Wide bandwidth microwave phase detection using optical intensity modulators." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1817-1820.

A new architecture for wide bandwidth microwave and optical-microwave phase detection using cascaded optical intensity modulators and synchronous detection is presented. This architecture has the potential to operate to many tens of gigahertz using currently available components. An experimental setup and measured results which confirm the proposed architecture are given. The proposed architecture can also be used for wide bandwidth signal correlation.

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