

Abstracts

Microwave Signal Distribution Using an Optical Amplifier

D. Mongardien, C. Moronvalle and F. Deborgies. "Microwave Signal Distribution Using an Optical Amplifier." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 731-734.

It has been shown that up to 15 GHz, erbium doped fiber amplifiers (EDFAs) do not modify the S_{sub 21} of an optical link. Here, we demonstrate that EDFAs do not alter the linearity either and can provide enough gain and power to split the microwave signal to 64 detectors with a 145 dB/Hz signal to noise ratio.

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