

## 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.

 [Return to main document.](#)