

Abstracts

Wide-band analog-digital photonic link with third-order linearization

T.R. Clark, M. Currie and P.J. Matthews. "Wide-band analog-digital photonic link with third-order linearization." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 691-694.

A photonic analog-digital link with third-order distortion suppression is proposed and demonstrated. 1 GSPS photonic sampling and digitization of single and two-tone signals with digital linearization resulting in >25 dB distortion suppression with a 500 MHz instantaneous bandwidth is achieved.

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