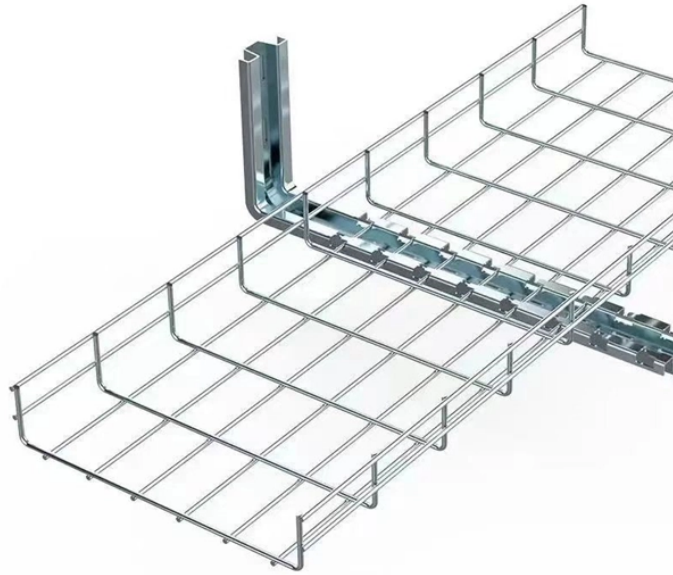
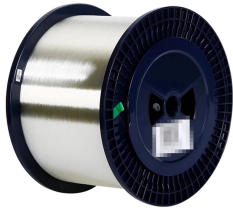


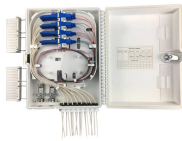
Optical Domain Microwave Amplifier



Optical Domain Microwave Amplifier



An all-optical microwave oscillator is proposed and experimentally demonstrated. Based on a pure photonic feedback loop, this system can generate a photonic microwave signal without ...



An optical-domain wideband microwave amplification system which takes advantage of the large bandwidth capacity of optical devices to amplify optically carried microwave signals is proposed.



Arbitrary microwave waveforms have become increasingly crucial for diverse applications, including high-capacity wireless communication, advanced radar systems,



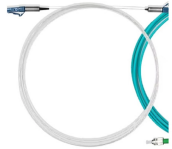
In this work, we propose and demonstrate an ultrawideband dynamic microwave signal measurement scheme using the digital optical frequency comb (DOFC)-enabled SBS effect.



Such devices, also known in the literature as travelling-wave parametric amplifiers, were originally developed in the microwave domain, in which they, for example, provide quantum-limited ...



rowave amplification method in the optical domain is proposed. This method utilized the large bandwidth capacity of optical devices to amplify optically carried microwave signals. The amplification range ...



In this work, we have proposed an all-optical microwave oscillator using cross-gain modulation of semiconductor optical amplifier and cascaded stimulated Brillouin scattering effects in ...



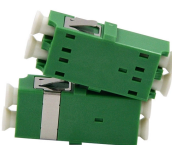
This trace is the comparison of two optical oscillators with a single optical frequency comb, and it represents the present microwave phase noise floor if photodetection of the comb repetition rate ...



In this paper, we review our recent works about a microwave photonic repeater, self-interference cancellation, and microwave signal coupling techniques.



monstrate a two-point OFD-based microwave oscillator that combines an ultrahigh-Q miniature Fabry-Pérot cavity with optical co-SIL. Leveraging its low relative phase noise optical reference and ...



Here we present designs and phase noise results of several OEOs, operating at RF frequencies up to 10 GHz, constructed with only optical gain. In the basic feedback oscillator there are two primary noise ...

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