

Abstracts

Observation of Microwave Comb Generation with a Josephson Junction Array

G.K.G. Hohenwarter, D.P. McGinnis, J.B. Beyer and J.E. Nordman. "Observation of Microwave Comb Generation with a Josephson Junction Array." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. 1 [MWSYM]): 447-450.

We report high harmonic content sideband generation with a Josephson junction array as center conductor of a 50 Ohm coplanar line. The line was fed with a low level microwave signal and an ac bias current with a dc offset. Over 100 harmonics of the ac signal were observed in the mixing spectrum at rf frequencies up to 20 GHz. The shape of the spectrum changed with magnetic field and dc bias point.

[Return to main document.](#)