

Abstracts

Saturation of the SIS Mixer by Out-of-Band Signals (Short Papers)

L.R. D'Addario. "Saturation of the SIS Mixer by Out-of-Band Signals (Short Papers)." 1988 Transactions on Microwave Theory and Techniques 36.6 (Jun. 1988 [T-MTT]): 1103-1105.

The tendency of SIS mixers to saturate at low input signal levels is shown to depend on the total signal voltage across the junction, including frequency components outside the band of interest. If large dynamic range is to be achieved, mixers should be designed with embedding networks that present low impedances to the junction at out-of-band frequencies.

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