

Abstracts

Local-Oscillator Noise Cancellation in the Subharmonically Pumped Down-Converter (Short Papers)

P.S. Henry, B.S. Glance and M.V. Schneider. "Local-Oscillator Noise Cancellation in the Subharmonically Pumped Down-Converter (Short Papers)." 1976 Transactions on Microwave Theory and Techniques 24.5 (May 1976 [T-MTT]): 254-257.

The noise power at the IF output of a superheterodyne mixer which is caused by local-oscillator noise can be significantly reduced by using the recently developed subharmonically pumped down-converter. In many cases this reduction is so large that even noisy sources, such as IMPATT oscillators, can be used to pump low-noise mixers without causing significant degradation of noise figure.

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