

Abstracts

Measurement of a DSB modulated RF signal by use of discriminating filters and envelope detection

A. Barel and Y. Rolain. "Measurement of a DSB modulated RF signal by use of discriminating filters and envelope detection." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1871-1873.

This paper proposes a method to measure the amplitude and the phase of the spectral tones present in both sidebands of a microwave amplitude modulated RF signal. The method exploits once more the phase conservation property inherent to the frequency down conversion operation performed by an envelope detection circuit while a pair of filters bring the needed discrimination on the side-tones.

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