

Abstracts

Negative resistance optimized in noise for losses compensation in microstrip resonators

A. Zaitsev, B. Kapilevich, L. Billonnet, B. Jarry and P. Guillon. "Negative resistance optimized in noise for losses compensation in microstrip resonators." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 1577-1580 vol.3.

A new design concept of low noise negative resistance circuit is presented considering stability conditions. Low noise properties of a negative resistance circuit are guaranteed by an optimal value of the transistor feedback. Based on this circuit, a low-noise 2nd-order 3 GHz active bandpass filter has been designed and fabricated.

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