

48/24 GHz and 20/10 GHz Regenerative Frequency Dividers

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Low power regenerative frequency dividers have been designed and experimentally evaluated. The dividers consist of a resistive FET (HEMT) mixer, bandpass filters and an amplifier. Experimental verification of the dividers at 48/24 GHz and 20/10 GHz shows that stable division in a bandwidth of 3-5% can easily be obtained. This is, to our knowledge, the highest frequency of operation of such type of dividers.

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