

Abstracts

A Millimeterwave Subharmonically Pumped Resistive Mixer Based on a Heterostructure Field Effect Transistor Technology

H. Zirath, I. Angelov and N. Rorsman. "A Millimeterwave Subharmonically Pumped Resistive Mixer Based on a Heterostructure Field Effect Transistor Technology." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 599-602.

A subharmonically pumped resistive mixer (SPRM) working at millimeterwaves based on a HFET technology is described for the first time. Nonlinear simulations of the mixer were performed and a special dual HFET chip was developed and fabricated for the demonstration of this mixer. Mixer circuits were fabricated and operational characteristics at 40-45 GHz were investigated.

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