

Abstracts

A 3 Chip GaAs Double Conversion TV Tuner System with 70 dB Image Rejection (1989 Vol. I [MWSYM])

T. Ducourant, P. Philippe, P. Dautriche, V. Pauker, C. Villalon, M. Pertus and J.-P. Damour. "A 3 Chip GaAs Double Conversion TV Tuner System with 70 dB Image Rejection (1989 Vol. I [MWSYM])." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. I [MWSYM]): 95-98.

A 3 chip VHF-UHF TV tuner system has been implemented with a 0.7 μm MESFET GaAs technology. The system based on the double frequency conversion method consists in an up-converter ($\text{IF}/\text{sub } 1/ = 1.9 \text{ GHz}$), a smooth filter and an image rejection down-converter ($\text{IF}/\text{sub } 2/ = 35 \text{ MHz}$); it exhibits 30 dB of conversion gain and 70 dB of image frequency rejection throughout VHF-UHF band.

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