

Abstracts

A 2-20 GHz Dual Channel Receiver with 2-6 GHz IF

S.S. Bharj, S.P. Tan, J. Gluck and B. Thompson. "A 2-20 GHz Dual Channel Receiver with 2-6 GHz IF." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. I [MWSYM]): 409-412.

A dual channel 2-20 GHz receiver with a 2-6 GHz IF has been designed and developed to give conversion gain and good LO and RF rejections at intermediate frequencies. It utilizes nine MMIC chips and has an 8 to 12 GHz MESFET voltage controlled oscillator. Applications of this receiver are intended for future electronic warfare systems. The receiver uses a unique planar balun for the double balanced mixer.

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