

## A Miniature 17/12 GHz MMIC Receiver for Satellite Communication

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C. Yuen, E. Quiles, J.J. McFarland, M. Yung, R. Klibo and W. Findley. "A Miniature 17/12 GHz MMIC Receiver for Satellite Communication." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 961-964.

We have developed a novel high gain, low noise, miniature 17/12 GHz receiver with MMIC insertion for satellite communication. This receiver has a nominal conversion gain of 60+/-0.25 dB with gain adjustment range of 60 dB and noise figure of 1.6 dB. The third order intermodulation is 32 dBc @ -50 dBm input drive level, from 17.3 to 17.8 GHz at room temperature. It has a size of 5.7x1.8x0.3", a mass of 90 gm and a DC power consumption of 2.8 Watt.

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