

## A 30 GHz-Band Full-MMIC Receiver for Satellite Transponders

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30GHz-band MMIC modules (low noise amplifier, frequency converters and local oscillator) needed to construct a Ka-band full-MMIC satellite transponder have been developed. A receiver bread-board model has been assembled using MMIC modules and total performances have been evaluated. Test results indicate successful performance as a satellite receiver system.

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