



Complete IC System Solution for Worldwide DBS Platforms

CX24109 Product Features

- Single-chip RF-to-baseband satellite receiver
- Zero-IF architecture eliminates the need for image-reject filtering
- Integrated LNA
- Integrated LO with onboard VCO and synthesizer
- Variable baseband filters for optimal interference rejection
- Single +5V supply

- I/Q phase difference: ±3 degrees, typical
- I/Q amplitude difference: ±1.5 dB, typical
- Filter tune range: 0.5 to 30 MHz
- Output voltage, $R_L \geq 1k\Omega$: 0.5 Vp-p
- Typical junction temperature: 90° C at room temperature
- Operating temperature range: 0° to 70° C
- Package type: 48-pin ETQFP

Product Specifications

- RF input: 950 to 2150 MHz
- Input power range: -20 to -81 dBm
- Noise figure: 10 dB, typical
- Input IP3 at minimum gain: 10 dBm, typical

Applications

- DBS set-top boxes
- Commercial digital video, audio and data receivers
- Digital VCRs

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