



BGX7221HN

Dual receiver down mixer

The BGX7221 device combines a pair of high performance, high linearity down-mixers for use in receivers having a common local oscillator, for instance having main and diversity paths. The device covers the frequency range from 1400 MHz to 2700 MHz. Each mixer provides an input 1 dB compression point (ICP1dB) above 13 dBm, with an input third-order intercept point (IIP3) of 26 dBm. The small-signal Noise Figure (NF) is at 10 dB whereas under large signal blocking conditions the Noise Figure is typically 20 dB. Isolation between mixers is typically 55 dB.

Features and benefits

- 1400 MHz to 2700 MHz frequency operating range
- Conversion gain 8 dB in the 2 GHz band
- 13 dBm input power at 1 dB gain compression point
- 26 dBm input third order intercept point
- 10 dB typical small signal noise figure
- Integrated active biasing
- 5 V single supply operation
- Independent power-down hardware control pins per mixer
- Low bias current in Power-down mode
- Matched 50 Ω single-ended RF and LO input impedance
- ESD protection at all pins

Applications

- Mobile network infrastructure
- RF and IF applications
- Communication systems and radars
- Microwave and broadband
- Industrial applications

- **Parametric search** all Mixers/ Modulators

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