



## 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  $\Omega$  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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