



Features

- Versatile GHz Frequency Range Down Converter
- Low Power Building Block
- Triple Balanced Mixer with High LO Rejection

Benefits

- Low Current Consumption
- Single Supply
- Wide Supply Voltage Range of 2.7V to 4.6V
- Easy to Use and Handle
- Fully Integrated 5.8 GHz RF Port Matching
- Integrated Coupling Capacitors at RF- and LO-ports
- Open Collector IF Output Port
- Wide Useful Frequency Ranges
- RF: 2 GHz to 7 GHz
- LO: 1 GHz to 4 GHz
- IF: 0 GHz to 3 GHz

Electrostatic sensitive device.
Observe precautions for handling.

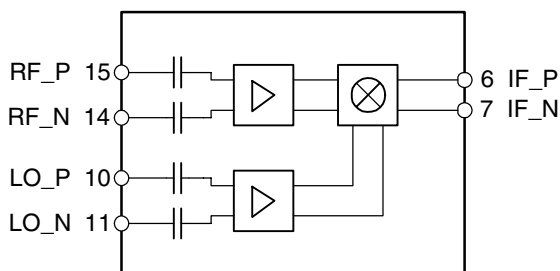


1. Description

The down converter IC ATR2809 is fabricated in Atmel's powerful SiGe bipolar process.

The single ended RF input signal is differentially converted and down (or up) converted by a triple balanced Gilbert-cell mixer.

Figure 1-1. Block Diagram



5.8-GHz Down Converter IC

ATR2809

Summary

Preliminary

Rev. 4692ES-DECT-01/06



Note: This is a summary document. A complete document is available under NDA. For more information, please contact your local Atmel sales office.

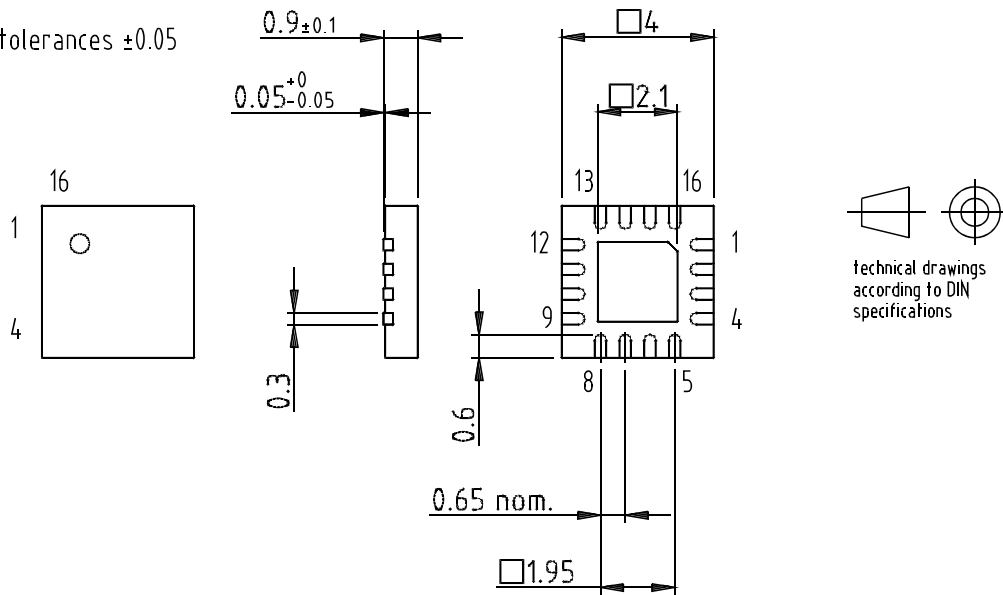
Ordering Information

Extended Type Number	Package	Remarks
ATR2809-PEPG	QFN16	4 × 4 mm, exposed pad, taped and reeled, Pb-free

Package Information

Package: QFN 16 - 4x4
 Exposed pad 2.1x2.1
 (acc. JEDEC OUTLINE No. MO-220)
 Dimensions in mm

Not indicated tolerances ± 0.05



Drawing-No.: 6.543-5090.01-4

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