

## Features

- Fully Integrated Low IF Receiver with High Sensitivity
- Supply-voltage Range 2.9 V to 3.6 V (Unregulated)
- Auxiliary-voltage Regulator on Chip (3.2 V to 4.6 V)
- Low Current Consumption
- Few Low Cost External Components
- No Mechanical Adjustment Required
- Fully Integrated GFSK-modulator for 288/576/1152 kBit/s
- TX Amplifier (+3 dBm)
- Integrated Ramp-signal Generator and Power Control for an Additional +28 dBm SiGe Power Amplifier T7026



## Applications

- 2.4 GHz Digital Cordless Phones
- Game Controllers
- Wireless Head Set
- FCC Part 15 Compliant Radio Link

Electrostatic sensitive device.  
Observe precautions for handling.



## 1. Description

The ATR2806 is a single chip RF-transceiver intended for applications in the 2.4 GHz ISM band. The QFN32 packaged IC is a complete transceiver including image rejection mixer, low IF filter, FM demodulator, RSSI, TX preamplifier, power-ramping generator for external power amplifier, integrated synthesizer, fully integrated VCO and TX filter. No mechanical adjustment is necessary in production.



## Low IF WDCT 2.4 GHz Transceiver

### ATR2806

## Summary

Rev. 4550GS-DECT-10/05



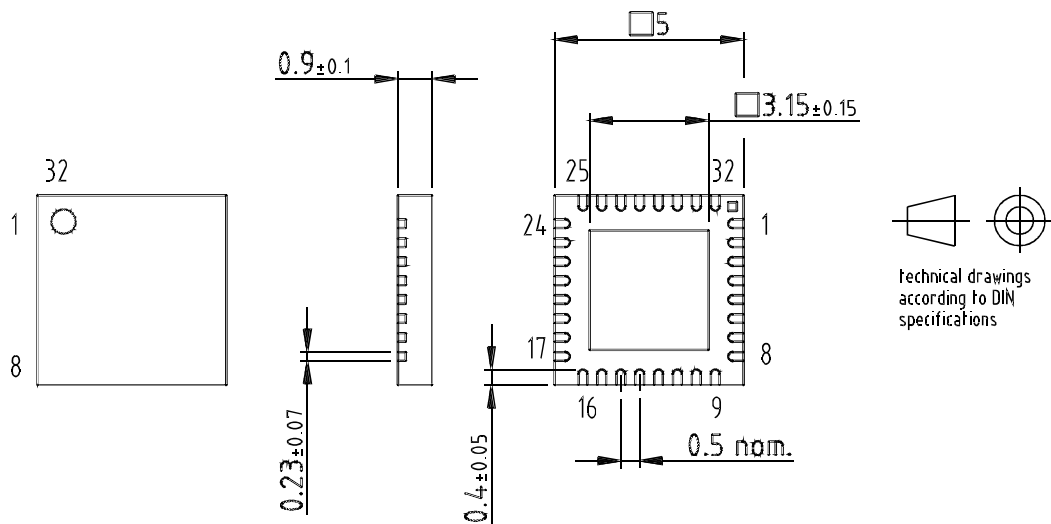
Note: This is a summary document. A complete document is available under NDA. For more information, please contact your local Atmel sales office.

## 2. Ordering Information

Extended Type Number	Package	Remarks
ATR2806-PNQG	QFN32 - 5x5	Taped and reeled, PB-free

## 3. Package Information

Package: QFN 32 - 5x5  
 Exposed pad 3.15x3.15  
 (acc. JEDEC OUTLINE No. MO-220)  
 Dimensions in mm



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### Biometrics/Imaging/Hi-Rel MPU/ High Speed Converters/RF Datacom

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### Literature Requests

[www.atmel.com/literature](http://www.atmel.com/literature)

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