### **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

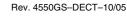
The ATR2806 is a single chip RF-transceiver intended for applications in the 2.4 GHz ISM band. The QFN32 packaged IC is a complete transceiver including image rejection mixer, low IF filter, FM demodulator, RSSI, TX preamplifier, power-ramping generator for external power amplifier, integrated synthesizer,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



Low IF WDCT 2.4 GHz Transceiver

**ATR2806** 

**Summary** 





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

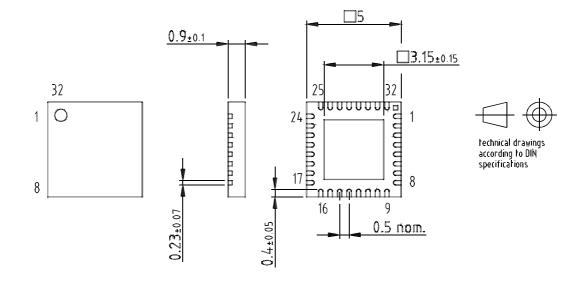
Extended Type Number	Package	Remarks
ATR2806-PNQG	QFN32 - 5x5	Taped and reeled, PB-free

# 3. Package Information

Package: QFN 32 – 5x5 Exposed pad 3.15x3.15

(acc. JEDEC OUTLINE No. MO-220)

Dimensions in mm



Drawing-No: 6.543-5087.01-4

Issue: 2, 24.01.03



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38521 Saint-Egreve Cedex, France

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Literature Requests www.atmel.com/literature

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