

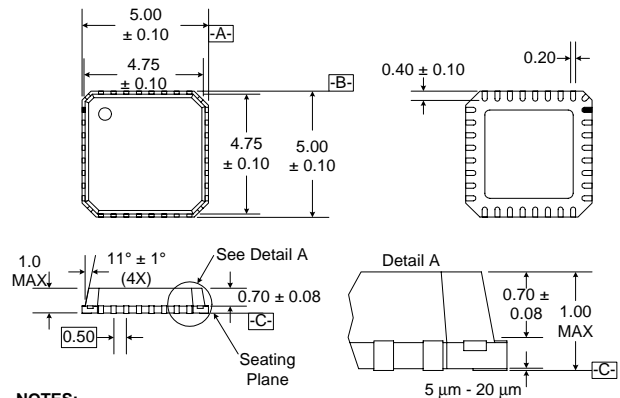
Typical Applications

- Bluetooth GSM/GPRS/EDGE Cellular Phones
- Bluetooth Wireless LAN
- Cordless Phones
- Battery-Powered Portable Devices

Product Description

The RF2968 is a monolithic integrated circuit intended for use as a low-cost FSK transceiver in Bluetooth applications. The device is provided in 32-lead plastic LCC packaging and is designed to provide a fully-functional FSK transceiver. The chip is intended for Bluetooth applications in the 2.4GHz to 2.5GHz ISM band. The IF and demodulation sections of the chip require no external filters or discriminators. The chip also features an image reject front end and a fully programmable synthesizer with integrated oscillator circuitry. Self-calibrating RX and TX IF circuitry optimizes link performance and eliminates manufacturing variations.

BLUETOOTH is a trademark owned by the Bluetooth SIG, Inc., and licensed to RF Micro Devices, Inc.



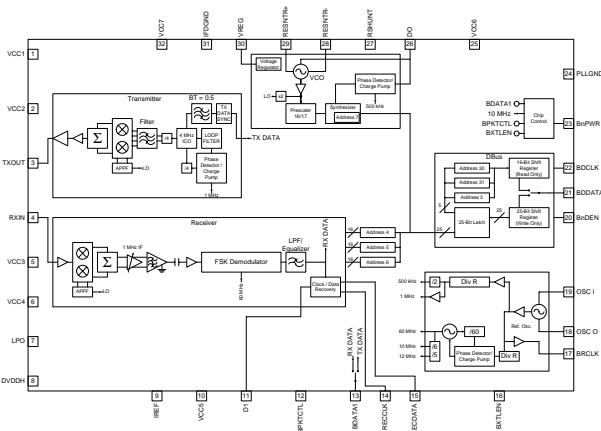
- NOTES:
1. Shaded lead indicates Pin 1.
 2. Package surface roughness at 1.5 μm ± 0.30.

Optimum Technology Matching® Applied

- | | | |
|--|-----------------------------------|---------------------------------------|
| <input type="checkbox"/> Si BJT | <input type="checkbox"/> GaAs HBT | <input type="checkbox"/> GaAs MESFET |
| <input checked="" type="checkbox"/> Si Bi-CMOS | <input type="checkbox"/> SiGe HBT | <input type="checkbox"/> Si CMOS |
| <input type="checkbox"/> InGaP/HBT | <input type="checkbox"/> GaN HEMT | <input type="checkbox"/> SiGe Bi-CMOS |

Package Style: LCC, 32-Pin, 5x5

- Features
- Fully Monolithic Integrated Transceiver
 - Self-Calibrating Transceiver
 - Image Reject Receiver
 - Bluetooth and BlueRF Compatible
 - Supports Reference Clocks to 40MHz
 - Smallest Footprint Bluetooth Transceiver



Functional Block Diagram

Ordering Information

RF2968 Bluetooth™ Transceiver

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