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MAX2582

Complete RF-to-Baseband Receiver

Highly Integrated, Ideal Solution for Low-Cost Phones in South American Markets

- Overview
- Technical Documents
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Status

All versions are No Longer Available.

Data Sheet

No Longer Available

Description

The MAX2582 highly integrated RF-to-baseband receiver supports PCS-band applications such as CDMA and OFDM. The MAX2582 includes an LNA, mixer, baseband filter, PLL, VGA, and an RF voltage-controlled oscillator (VCO). The entire receiver eliminates most of the external components found in other receivers including the IF-SAW filter and VCO.

To optimize dynamic range at minimum current, the MAX2582 implements several programmable gain and linearity states, each optimized for minimum current while meeting sensitivity and linearity requirements for as many as four ranges of received signal strength.

The MAX2582 is available in a 7mm x 7mm leadless 48-pin fcLGA package and is specified over the extended -40°C to +85°C temperature range.

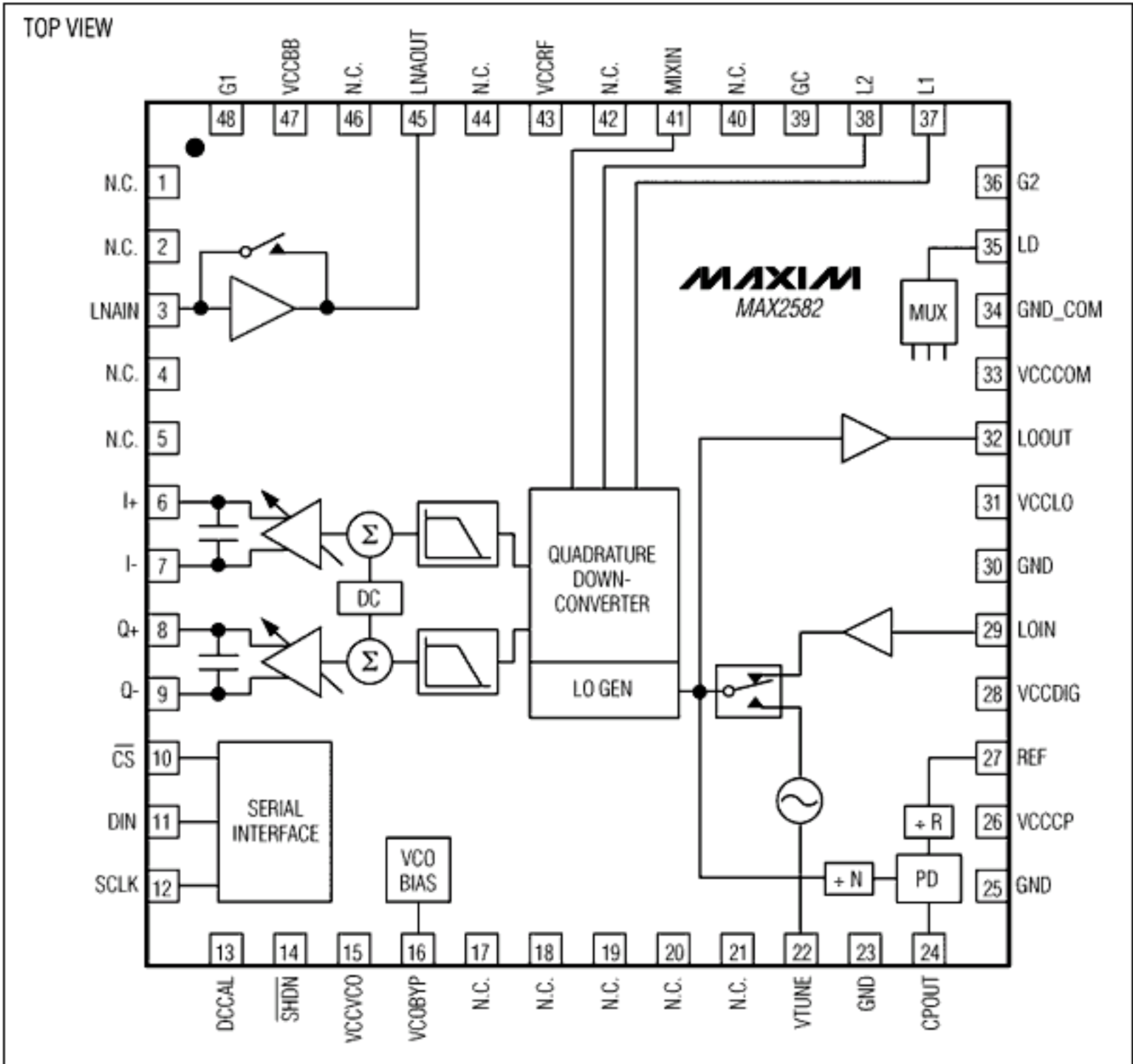
Key Features

- No External IF-SAW Filters Required
- RF VCO and PLL Included
- On-Chip Matching
- Optimized Low-Current Modes
- Two-Chip System Solution with the MAX2502
- 3dB Typical Cascaded Noise Figure
- Small 48-Pin fcLGA Leadless Package (7mm x 7mm)

Applications/Uses

- IS-2000 1xEV, EV-DO, and EV-DV
- IS-95 (CDMA)
- OFDM

Diagram



Pin Configuration/Functional Diagram

Technical Documents

Product Guide 5158 [Wireless](#)

Product Guides

[Wireless](#) (PDF)

Reliability Reports

Request Reliability Report for:

MAX2582

Go

Software/Models

none

Ordering Information

Filters: Part Number: Package:

Any

 Temperature:

Any

☐ Tape and Reel

☐ Sample

Go

Part Number	Free Sample	Buy	Status	Package: TYPE PINS FOOTPRINT DRAWING CODE/VAR *	Temp	RoHS/Lead-Free? Materials Analysis
MAX2582ELM-D		N/A	No Longer Available	LGA;48 pin Land Pattern: Not Available	-40°C to +85°C	See data sheet
MAX2582ELM-TD		N/A	No Longer Available	LGA;48 pin Land Pattern: Not Available	-40°C to +85°C	See data sheet

- Notes:
- Other options and links for purchasing parts are listed at: <http://www.maxim-ic.com/sales>.
 - Didn't Find What You Need?** Ask our applications engineers. Expert assistance in finding parts, usually within one business day.
 - Part number suffixes: T or T&R = tape and reel; + = RoHS/lead-free; # = RoHS/lead-exempt; -D = drypack; -U/+U on DS parts = cut tape. More: See [Full Data Sheet](#) or [Maxim Product Naming Conventions](#).
 - * Some packages have variations, listed on the drawing. "PkgCode/Variation" tells which variation the product uses. Note that "+", "#", "-" in the part number suffix describes RoHS status. Package drawings may show a different suffix character.

Similar Products by Function

[MAX2500](#), [MAX2502](#), [Complete Cellular Baseband-to-RF Transmitters with PA](#)
[MAX2503](#), ...

Your Comments

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