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MAX2585

Advanced Multimode Complete RF-to-Baseband Receiver

Industry's First 2-Chip Solution for Dual-Band North America CDMA with Integrated PAs

Overview

Technical Documents

Ordering Info

Related Products

User Comments (0)

All

Status

All versions are No Longer Available.

Data Sheet

No Longer Available

Description

The MAX2585 highly integrated RF-to-baseband receiver addresses multiband, multimode applications by providing switched signal paths for cellular AMPS, cellular CDMA, and PCS CDMA.

The MAX2585 includes an LNA, mixer, baseband filter, PLL, VGA, and AMPS-grade RF VCO. The entire receiver eliminates most of the external components found in other receivers including the IF-SAW filters and multiband VCOs.

To optimize dynamic range at minimum current, the MAX2585 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 MAX2585 is available in a 7mm x 7mm, leadless 48-fcLGA package and is specified over the -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 MAX2500
- 3dB Typical Cascaded LNA-Referred Noise Figure
- Small 48-Pin fcLGA Leadless Package (7mm x 7mm)

Applications/Uses

- AMPS, IS95, OFDM
- Dual-Band, Multimode PCS/Cellular Mobile Devices
- IS-2000 1xEV, EV-DO, and EV-DV

Reliability Reports

Request Reliability Report for:

Software/Models

none

Ordering Information

Filters: Part Number:  Package:  Temperature:  ☐ Tape and Reel ☐ Sample

Part Number	Free Sample	Buy	Status	Package: TYPE PINS FOOTPRINT DRAWING CODE/VAR *	Temp	RoHS/Lead-Free? Materials Analysis
MAX2585ELM-D		N/A	No Longer Available	LGA; Land Pattern: Not Available	-40°C to +85°C	See data sheet
MAX2585ELM-TD		N/A	No Longer Available	LGA; Land Pattern: Not Available	-40°C to +85°C	See data sheet

- Notes:
1. Other options and links for purchasing parts are listed at: <http://www.maxim-ic.com/sales>.
  2. Didn't Find What You Need? Ask our applications engineers. Expert assistance in finding parts, usually within one business day.
  3. 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](#).
  4. \* 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, ...

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