About Us

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English

My Maxim

MAX2164

ISDB-T 1-Segment Tuner

Solutions

Tiny Mobile TV Tuner with Integrated LNA for Japanese Mobile TV Market

Technical Documents Related Products Overview Ordering Info User Comments (0) ΑII

Design

Status 🔞

All versions are No Longer Available.

Data Sheet

No Longer Available

Description

The MAX2164 is a low-IF tuner IC designed for use in 1-segment ISDB-T applications. The MAX2164 directly converts UHF band signals to a low-IF using a broadband I/Q downconverter. The operating frequency range covers the UHF band from 470MHz to 806MHz.

The MAX2164 includes a stand-alone LNA with 1.2dB (typical) noise figure, eliminating the need for an external LNA. The MAX2164 also includes RF variable-gain amplifiers, I and Q downconverting mixers, a baseband variable-gain amplifier, and a low-IF filter. The MAX2164 has monolithic VCOs, a complete frequency synthesizer, and an on-chip crystal oscillator with output buffer. The device operates with a crystal from 32MHz to 36MHz.

The MAX2164 features a 2-wire I²C-compatible serial control interface with multiple addresses for multituner applications. A low-power standby mode is available that shuts down the signal path leaving the control interface, crystal oscillator, and buffer circuits active. An external pin can shut down the entire device.

The MAX2164 is specified for operation in the extended -40°C to +85°C temperature range and is available in a 2.06mm x 2.49mm x 0.35mm, 5 x 6 bump, lead-free WLP package.

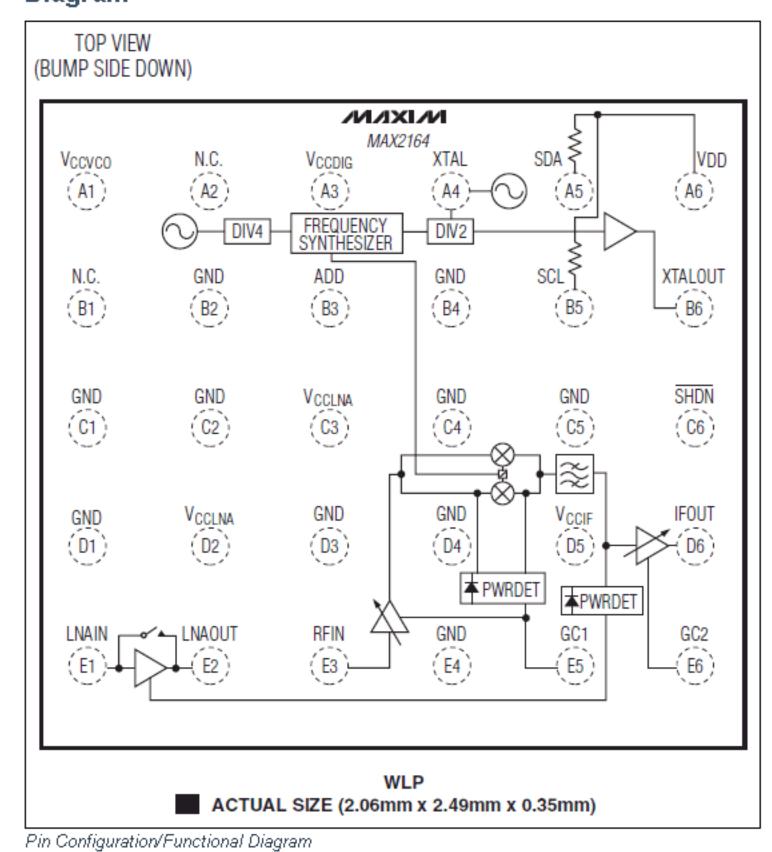
Key Features

- 470MHz to 806MHz Frequency Range
- 1.2dB NF Integrated Wideband LNA
- -100dBm to 0dBm High Dynamic Range
- Integrated VCO and Frequency Synthesizer
- -93dBc/Hz at 10kHz Low LO Phase Noise
- Integrated Low-IF Filters
- Greater Than 40dB Image Rejection
- Single +2.65V to +3.3V Supply 77mW (typ) Low Power
- 2-Wire I²C Serial-Control Interface
- Low-Power Shutdown and Standby Modes

Applications/Uses

- Cellular Phones Mobile TV Game Consoles
- Home Audio
- Personal Digital Assistants (PDAs)
- Portable TV, Audio, or GPS Devices

Diagram



Technical Documents

Product Guide 5158 Wireless **Product Guides**

Wireless (PDF)

Reliability Reports Request Reliability Report for: MAX2164 🔻 Go

Software/Models

none

Ordering Information

Filters: Part Number:

interes: 1 dit 14dinber:			Tape and Reel - Sample				
Part Number	Free Sample	Buy	Status ②	Package: TYPE PINS FOOTPRINT DRAWING CODE/VAR *	Temp	RoHS/Lead-Free? Materials Analysis	
				BARE D;			
MAX2164E/D+		N/A	No Longer Available	Land Pattern: Not Available		See data sheet	
MAX2164E/D+T			No Longer Available	BARE D;			
		N/A		Land Pattern: Not Available		See data sheet	
MAX2164EVKIT+			No Longer Available	KIT;			
		N/A		Land Pattern: Not Available		See data sheet	

▼ Temperature: Any ▼ □ Tane and Reel □ Sample Go

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.

Notes:

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.

number suffix describes RoHS status. Package drawings may show a different suffix character.

Package: Any

- Some packages have variations, listed on the drawing. "PkgCodeNariation" tells which variation the product uses. Note that "+", "#", "-" in the part
- Similar Products by Function

MAX2163 ISDB-T 1-Segment Tuner MAX2160, ISDB-T Single-Segment Low-IF Tuners MAX2160EBG

MAX2161, MAX2161S, ISDB-T 1- and 3-Segment Low-IF Tuners MAX2162, ... Similar Products by Application

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