Product Overview

LC72121MA: PLL Frequency Synthesizers for Electronic Tuning

For complete documentation, see the data sheet.

The LC72121MA are high input sensitivity (20 mVrms at 130 MHz) PLL frequency synthesizers for 3 V systems. These ICs are serial data compatible with the LC72131K/KMA, and feature the improved input sensitivity and lower spurious radiation (provided by a redesigned ground system) required in high-performance AM/FM tuners.

Features

• High-speed programmable divider: FMIN: 10 to 160 MHz (Pulse swallower technique (With built-in divide-by-2 prescaler)) AMIN: 2 to 40 MHz (Pulse swallower technique) 0.5 to 10 MHz (Direct division technique)
• IF counter: IFIN: 0.4 to 15 MHz (For AM and FM IF counting)
• Reference frequency: One of 12 reference frequencies can be selected (using a 4.5 or 7.2 MHz crystal element): 1, 3, 5, 9, 10, 3.125, 6.25, 12.5, 15, 25, 50, and 100 kHz
• Phase comparator: Supports dead zone control. Built-in unlocked state detection circuit. Built-in deadlock clear circuit. An MOS transistor for an active low-pass filter is built in
• I/O ports: Output-only ports: 4 pins; Input ports: 2 pins. Supports the output of a clock time base signal.
• Serial data I/O: Support ‘computer control bus’ format communication with the system controller.
• Operating ranges: Supply voltage: 2.7 to 3.6 V; Operating temperature: -40 to +85°C

For more information please contact your local sales support at www.onsemi.com.

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