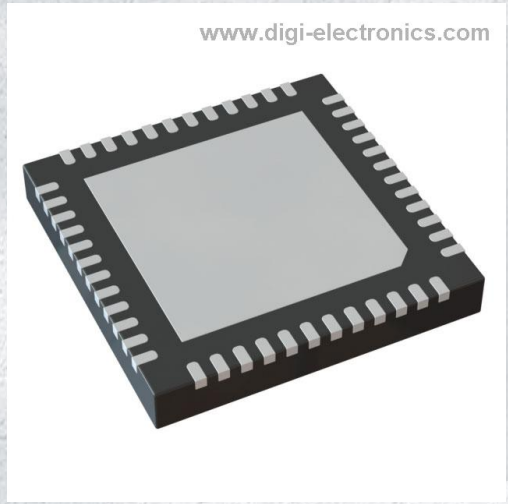
MAX2175ETM/V+T Datasheet



DiGi Electronics Part Number	MAX2175ETM/V+T-DG
Manufacturer	Analog Devices Inc./Maxim Integrated
Manufacturer Product Number	MAX2175ETM/V+T
Description	IC TUNER RF TO BITS AUTO 40TQFN
Detailed Description	RF IC Tuner General Purpose Direct Conversion 48-TQFN (7x7)

https://www.DiGi-Electronics.com

This model MAX2175ETM/V+T is available at DiGi Electronics.

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
MAX2175ETM/V+T	Analog Devices Inc./Maxim Integrated
Series:	Product Status:
-	Obsolete
Function:	Frequency:
Tuner	-
RF Type:	Secondary Attributes:
General Purpose	Direct Conversion
Mounting Type:	Package / Case:
Surface Mount	48-WFQFN Exposed Pad
Supplier Device Package:	Base Product Number:
48-TQFN (7x7)	MAX217

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	3 (168 Hours)
ECCN:	
OBSOLETE	

ABRIDGED DATA SHEET

EVALUATION KIT AVAILABLE

MAX2175

RF to Bits Automotive Radio Tuner

General Description

The MAX2175 IC is an advanced analog/digital RF to Bits® front-end designed for remote tuner and software-defined radio solutions in automotive reception environments. This highly integrated tuner uses direct-conversion for digital audio broadcast (DAB) and digital multimedia broadcast (DMB) applications, covering both VHF Band-III and L-Band. Reception of FM, DRM+, FM-HD, and Weather-Band is supported using a low-IF and digital conversion to baseband. AM (long, medium, and short wave) and DRM reception is supported using direct sampling and digital conversion to baseband.

The device provides a buffered differential output of the reference frequency to support multi-tuner systems. The design integrates all key blocks, enabling low-power, tuner-on-board designs with advanced baseband solutions. The tuner includes digital filtering to minimize the MIPS required in the baseband processor to demodulate the desired channel. The resulting I-channel and Q-channel data words are transferred to the baseband through an industry standard I^2S digital interface.

The MAX2175 IC is available in a 48-pin TQFN package (7mm x 7mm) with an exposed pad. Electrical performance is guaranteed over the extended -40°C to +85°C temperature range.

Applications

- Automotive Infotainment Systems
- Remote Radios
- Smart Antennas

Benefits and Features

- RF to Bits Architecture with I^2S Output
- Single Supply Voltage of +3.3V
- Integrated VHF Band-III Loop-Through
- All-Band Reception of AM Medium-Wave Band
- All-Digital Gain Control
- Flexible Data Structure
- Programmable Word Length
- Dual or Single Data-Line Modes
- Small Package (7mm x 7mm, 48-Pin TQFN)

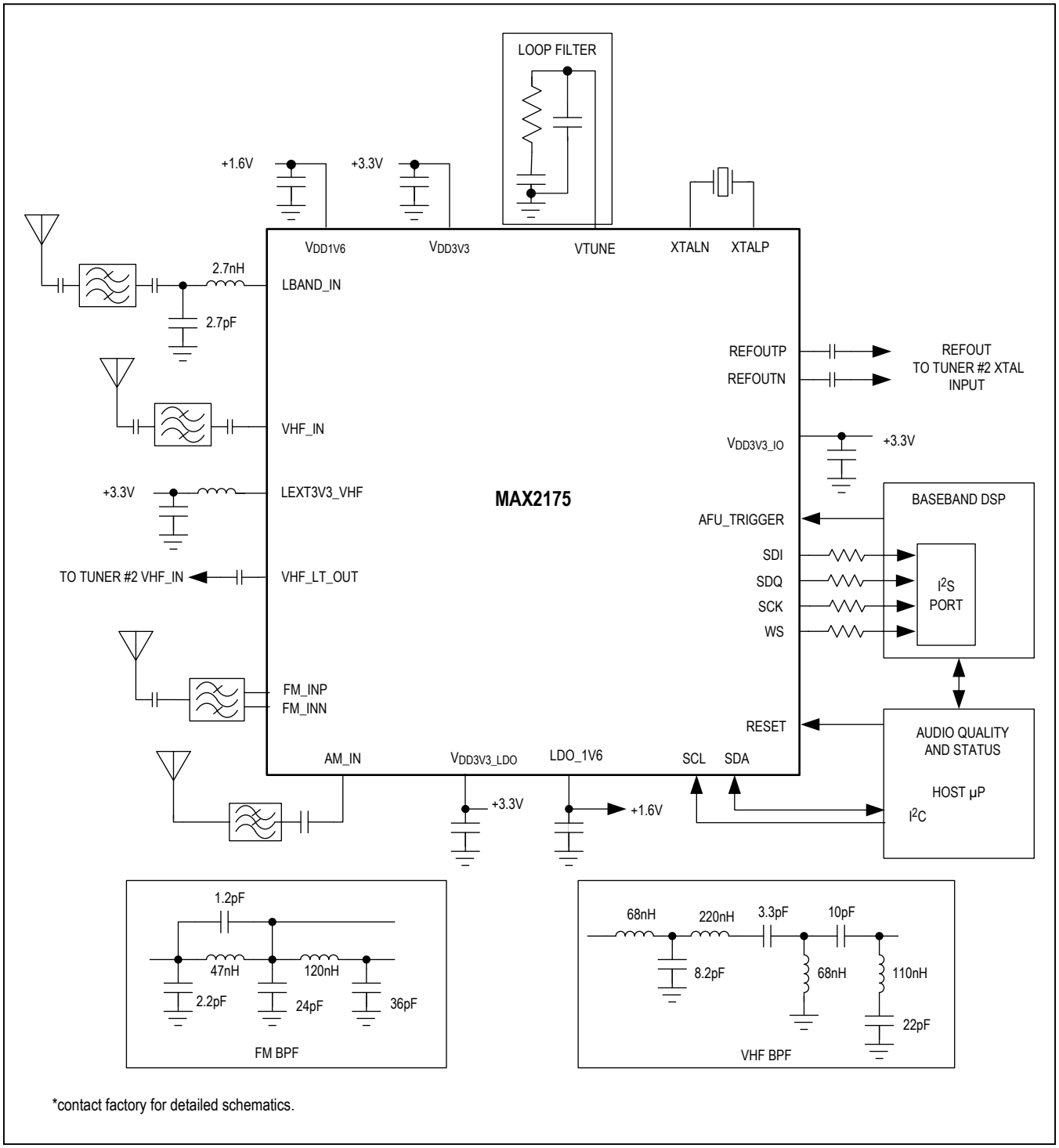
Ordering Information appears at end of data sheet.

19-8552; Rev 1; 2/17

maxim integrated™

Typical Application Circuits

Typical Application Diagram*



*contact factory for detailed schematics.

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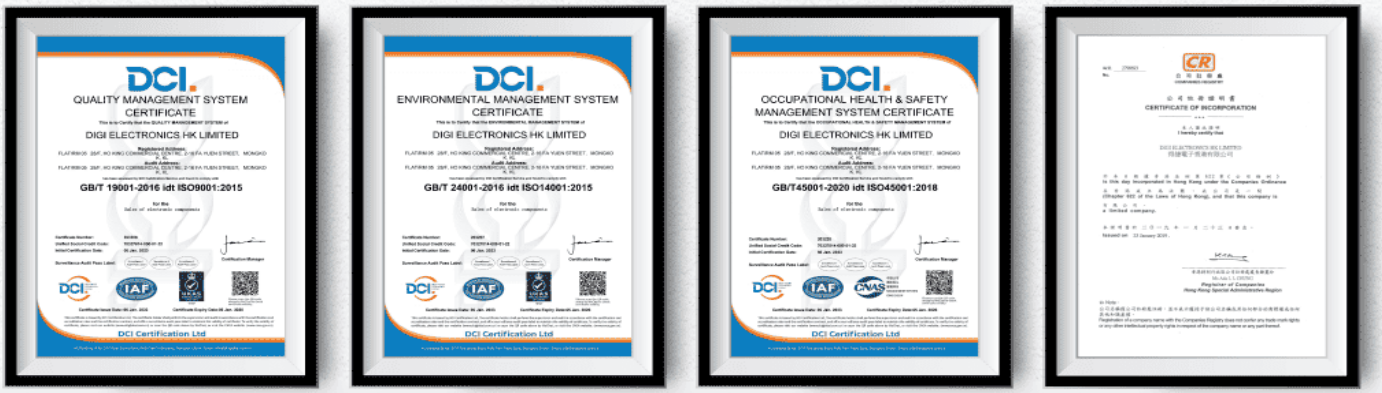

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