

Product Brief

TUA 4306

The ONE Chip Car Radio IC

The TUA 4306 is an one chip car radio front end IC consisting of an AM/FM receiver, an AM up down converter, an AGC amplifier, a FM IF limiter amplifier, AM and FM demodulators, and a stereodecoder with noise blanker.



Potential Application

- Car radios

Features

AM/FM-Receiver

- High flexibility with external preamplifier
- Separate mixers for AM and FM mode
- Only one 2-pin-LO at 100 MHz for AM and FM
- Strictly symmetrical RF parts
- Improved low phase noise
- FM/AM field strength output combined

FM-Receiver

- Integrated AGC generation for PIN Diodes and MOSFETs
- High level mixer input
- High input/output 3rd order interceptpoint

FM-IF Demodulator

- Multipath detector with analog output
- High linear fieldstrength output

Stereodecoder

- Adjustment free oscillator with ceramic resonator (456 kHz)
- Analog mono/stereo blend control

- Pilot canceller (19 kHz)
- Adjacent channel noise suppression
- Interference noise detector and noise blanking at audio outputs

AM Mode

- Fast AM search tuning stop feature

Price Projection

- Standard price list
- For Key and Focus accounts or high volumes you may contact your regional Siemens sales partner

Development and Support Tools

- Application Board TUA 4306

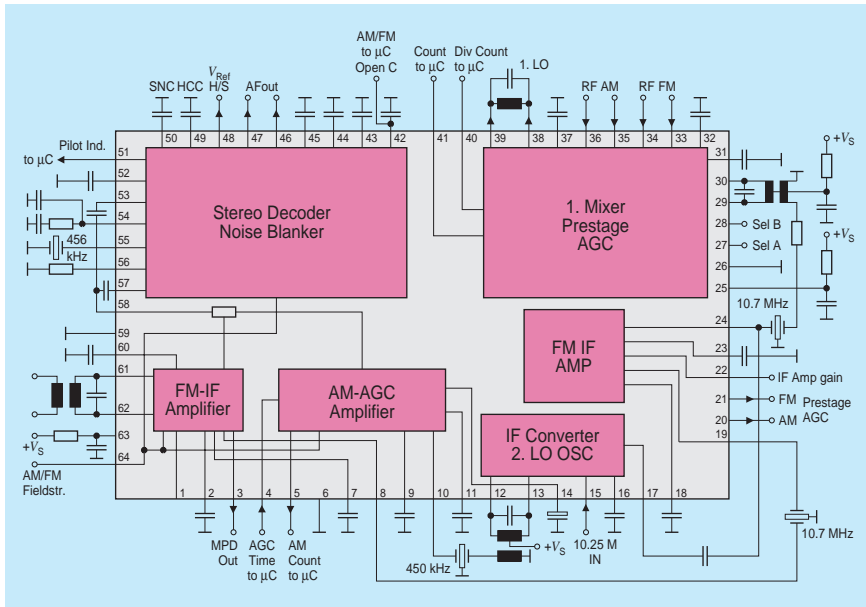
Features	Benefits
AM UP/DOWN conversion concept	Alignment free
Flexible for high-performance/low-cost applications	One chip for all radios
Reduced number of adjustments	Cost savings, high reliability
Reduced peripheral count	
MW/SW receiver	New markets (e.g. Saudi Arabia)

Packing

Type	Ordering Code	Package
TUA 4306	Q67037-A1009	P-MQFP-64-1

Documentation	Date of Issue/Version
Specification	7/98
Application	2/98
Articles/Press releases	tbd.

Block Diagram

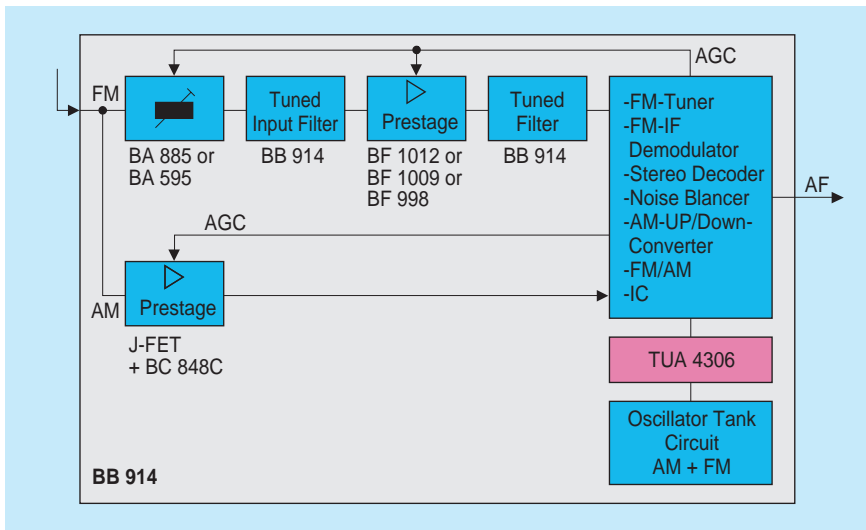


Availability

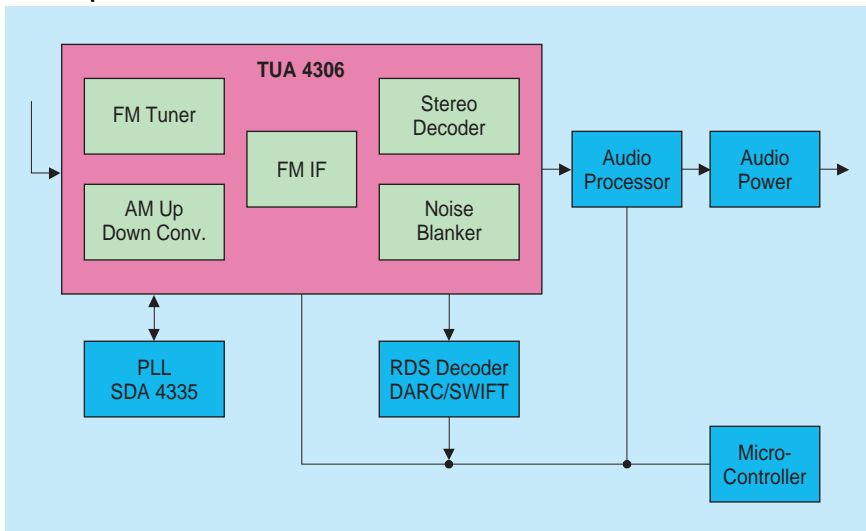
Samples available;
Product development release

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RF Semiconductors in Car Radio AM/FM Receivers



1-Chip Car Radio IC TUA 4306



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