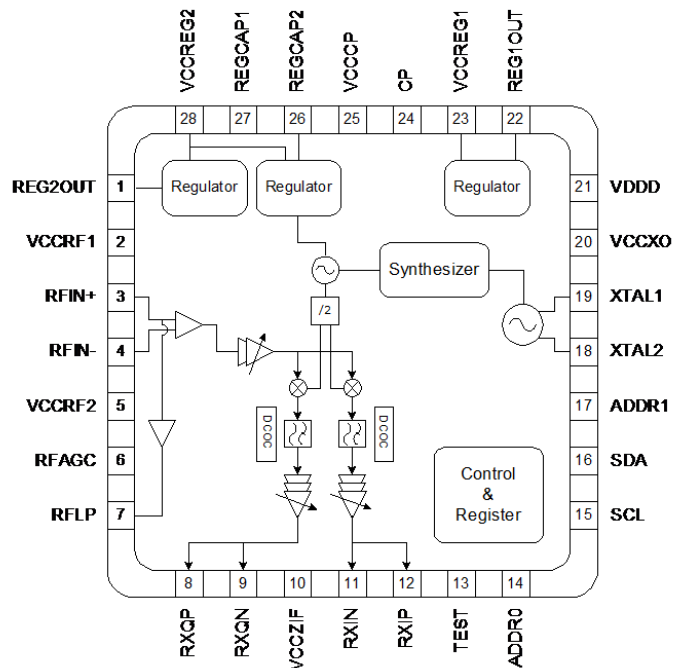


## AV2026

### Single Chip Tuner for DVB-S/ABS-S Receiver



## Product Overview

AV2026 is a highly integrated single chip for DVB-S/ABS-S Tuner receiver application. The input RF signal frequency ranges from 850MHz to 2300MHz. AV2026 implements zero-IF direct conversion architecture with embedded LNA, Mixer, VCO, crystal oscillator and LDO regulators to minimize the external BOM cost. There is no additional calibration procedure required in AV2026 during power-on procedures. A programmable baseband channel filter is also implemented to provide different channel bandwidths from 4MHz to 40MHz. A 27MHz reference clock with on-chip buffer is also provided for the baseband section clock source. A simple 2-wire interface allows easy control from the baseband controller.

## Key Features

- Input RF Frequency: 850MHz to 2300MHz
- Single +3.3V Power Supply
- Embedded LNA, Mixer, VCO, crystal oscillator and LDO regulators
- Embedded DC offset Cancel Circuit
- No Calibration Required
- Programmable channel filter with bandwidth from 4MHz to 40MHz
- Embedded RF signal loop through path
- 2-wire serial control interface
- QFN4\*4mm 28pin package

GENERAL ELECTRONIC

## Application

- DVB-S Setup Box