

## HXT5UZ1A

### Ultra Slim TV Tuner for NTSC-US System

#### 1. General Description

The Himax's HXT5UZ1AS1 series tuner is designed in an advanced single conversion RF architecture to implement a full coil-free and alignment-free tuner.



IF demodulation use a video/sound split carrier and bandwidth switchable SAW to reduce the interference between video and sound and excellent sensitive for portable application

Thank to the coil-free design, the first SMD type tuners, the thinnest (3.0mm) and smallest (volume: 2.4ml) size is successfully implemented.

#### 2. Features

- NTSC M/N system .
- Compact size 2.4ml: 3.0mm(H)\*37mm(L)\*22mm(W)
- Broadband freq range from 55.25 to 801.25MHz
- High sensitivity for weak RF reception area
- Output: Composite video, audio, 2nd sound IF, Analog AFT (Auto Frequency Tuning) and S-curve voltage.
- Synchronous video and audio demodulation.
- Selectable wideband audio frequency response output (3dB@100KHz) for MTS decoder or de-emphasized mono audio output
- SIF output for further audio function application.
- Both analog AFT S-curve voltage and readable AFT digital data output

#### 3. Pin Assignment

SMD Pin No	Pin name	Description
1	RF_IN	RF input
2	VT	Tuning Voltage out (for monitor)
3	SCL	Serial clock
4	SDA	Serial data
5	BT	+3.3V supply voltage for RF
6	B	5V supply voltage for demodulation
7	AUDIO	Mono Audio or MPX (Stereo) output
8	SIF	2 <sup>nd</sup> IF out (4.5/5.5/6.0/6.5 MHz)
9	AFT	Analog AFT (Auto Freq. Tuning) voltage output
10	VIDEO	Composite Video output
11	GND	
12	GND	
13	GND	
14	GND	

## 4. Outline Drawing and Footprint

SMD type Footprint

