

TUA6039

Full 3-Band, Low Power RF Tuner IC
with Integrated IF AGC Amplifier



TAIFUN TUA6039 is a Tuner IC incorporating a mixer-oscillator function and an IF AGC amplifier with a digitally programmable phase locked loop (PLL). Both analog and digital standards for all terrestrial and cable applications are supported. With the high level of system integration and use of Bipolar technology, this IC provides cost effective and good performance solution to Tuner module and NIM (Network Interface Module) manufacturers. *

Applications

- Suitable for PAL, NTSC, SECAM, DVB-C, DVB-T, T-DMB, DAB, ISDB-T and ATSC tuners
- Focus on stationary applications for TV reception

Features

- Supply voltage from 3 to 5.5 volts
- Bipolar technology for lower cost
- Narrow-band AGC detector for internal tuner
- AGC buffer output
- Low phase noise
- Full ESD protection
- Power consumption : 330mW@3.3 volts

IF - Amplifier

- 4 IF pins to connect a true 2 pole bandpass
- Symmetrical SAW driver
- Fully balanced IF AGC amplifier

PLL

- I²C bus
- 6 reference divider ratios
- 4 charge pump currents
- 4 independent I²C addresses, pin-programmable
- High voltage VCO tuning output
- Four PNP ports
- Internal LOW/MID/HIGH band-switch
- X-tal oscillator, 4 MHz
- X-tal buffer output

Power Management

- Bus controlled power down mode

*Infineon TUA6041 / TUA6045 in BiCMOS technology are targeting at portable applications where low power consumption is required.

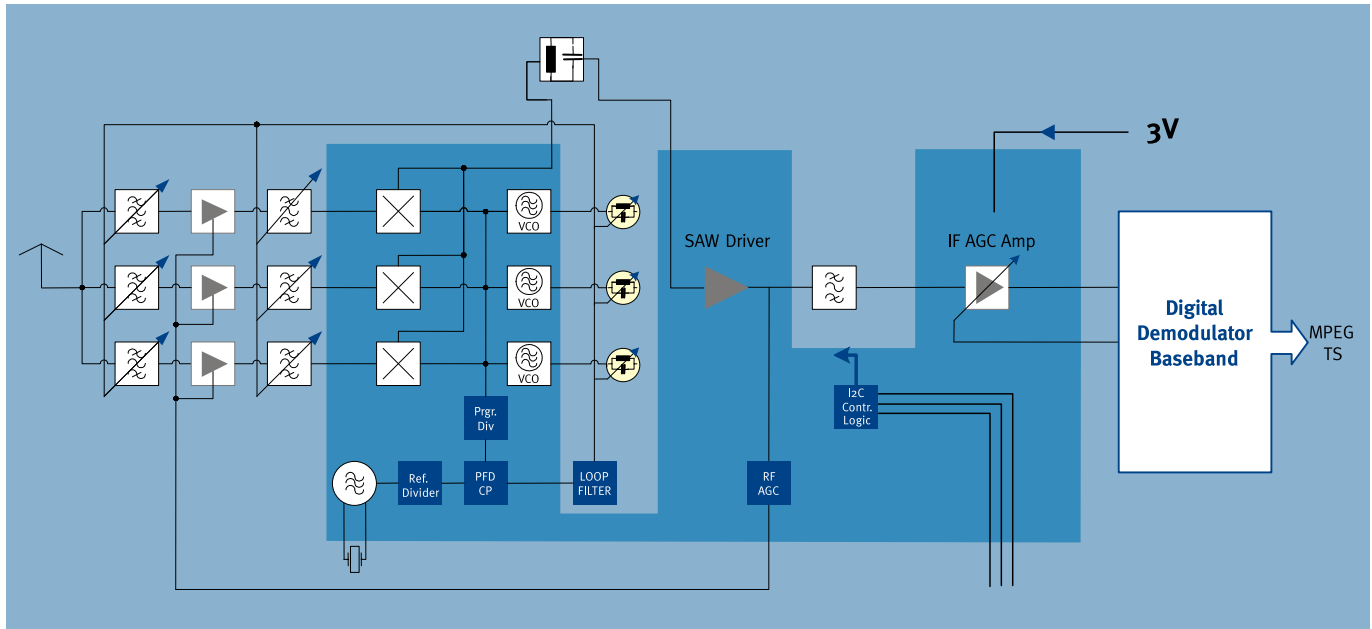
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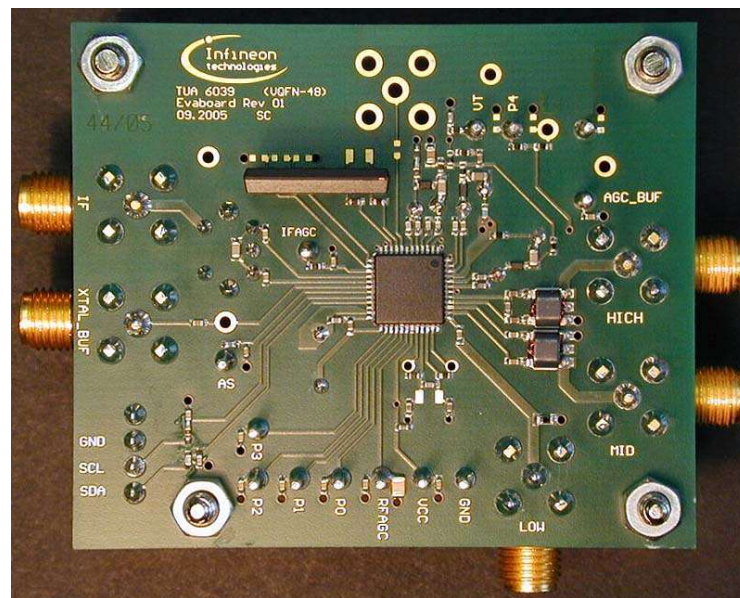


Never stop thinking

Block Diagram



TUA6039 Evaboard



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