

DESCRIPTION

The M52770SP is a single chip CTV processor which has VIF/SIF, luminance, chrominance, mono sound, OSD display, RGB interface, and deflection.

And it is possible to control each parameters by I²C bus. A baseband 1H delay line is built-in, and conjunction with SECAM decoder M52325AP simplifies multi system CTV chassis.

FEATURES

- Built-in 1H Delay Line using Bi-CMOS technology
- Multistandard PLL demodulator for IF
- Alignment - free sound demodulator
- Flexible source selection with internal CVBS and external CVBS or Y/C input signal
- Audio switch integrated
- Integrated chroma trap and bandpass filters with auto-calibration
- Luminance delay line integrated
- RGB control circuit with cut-off and drive
- Linear RGB inputs and fast blanking
- Horizontal synchronaization with two control loops and alignment-free H-oscillator
- Vertical count-down circuit
- Vertical saw tooth generator integrated
- I²C Bus control of various functions
- Easy interfacing with SECAM decoder for multistandard applications
- Small amount of peripheral components

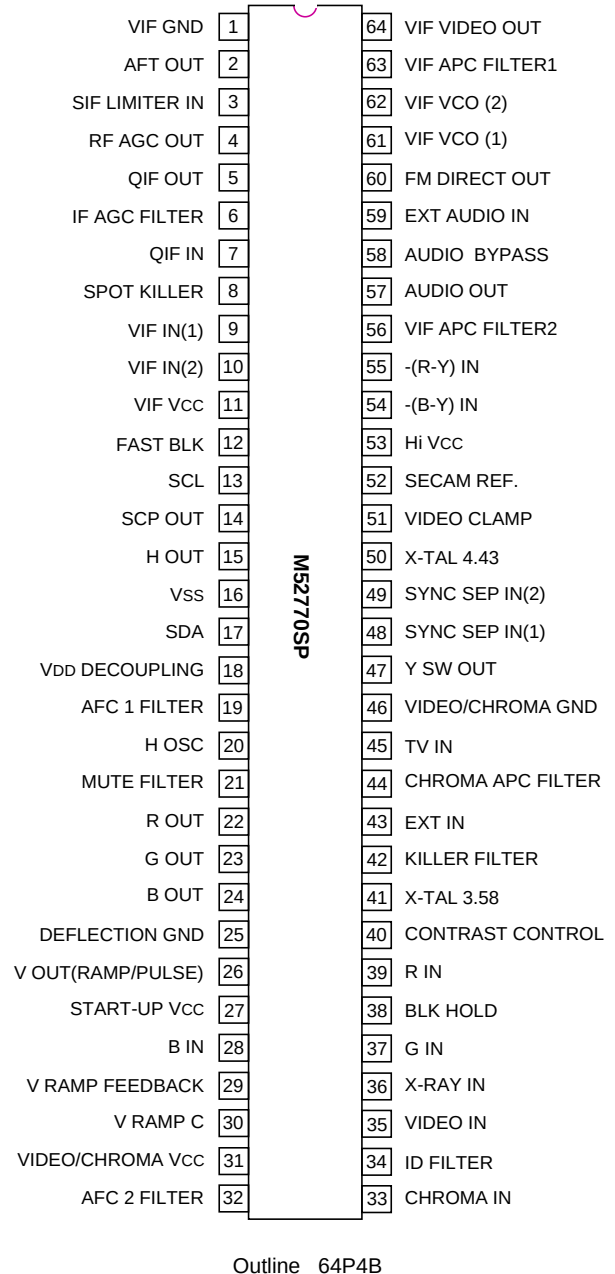
APPLICATION

NTSC/PAL TELEVISION

QUICK REFERENCE DATA

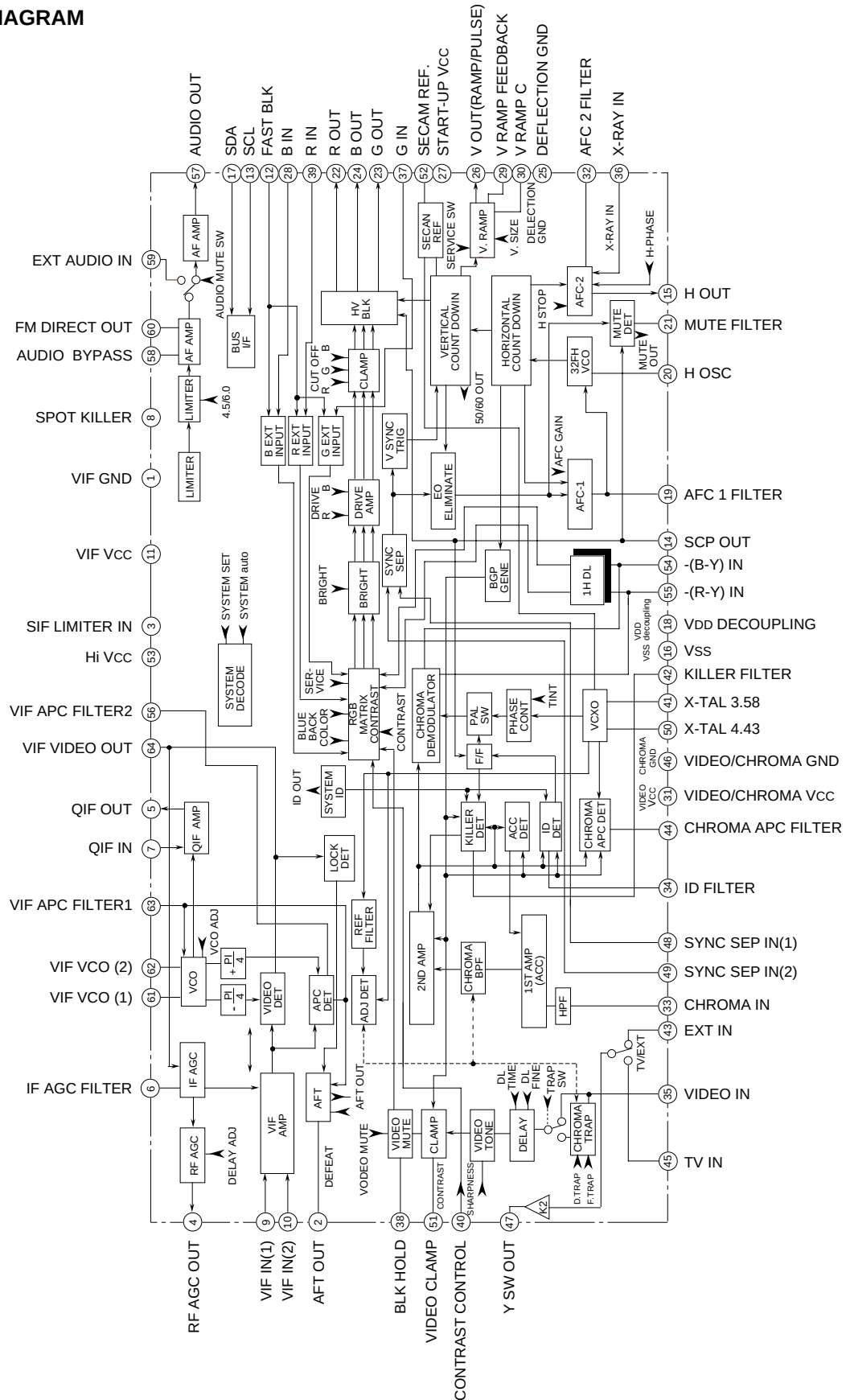
- Supply voltage pin11(VIF), pin31(video/chroma)..... 5.0V
pin27(Start-up), pin53(Output Stage)..... 9.0V
- Supply current pin11 and pin31..... 107mA
pin27 and pin53..... 56mA
- Input signals VIF input sensitivity..... 47dBμ
SIF limiting sensitivity..... 40dBμ
External audio input..... 1VP-P
External CVBS/Y inputs..... 1VP-P
External chroma input (burst amplitude)..... 0.3VP-P
External RGB inputs..... 0.7VP-P
Fast blanking Internal TV..... 0 to 0.8V
External RGB..... 1.2 to 3.3V
Harf Tone..... 3.7 to 5V
-(R-Y) input..... 1.05VP-P
-(B-Y) input..... 1.33VP-P

PIN CONFIGURATION (TOP VIEW)



- Output signals VIF CVBS det out..... 2.2VP-P
RF AGC output range..... 0.3 to 8.7V
Video switch out..... 2.1VP-P
RGB output Pedestal voltage..... 2.2V
amplitude..... 4.2VP-P
Horizontal output amplitude..... 4.0VP-P
Vertical ramp amplitude..... 2.0VP-P

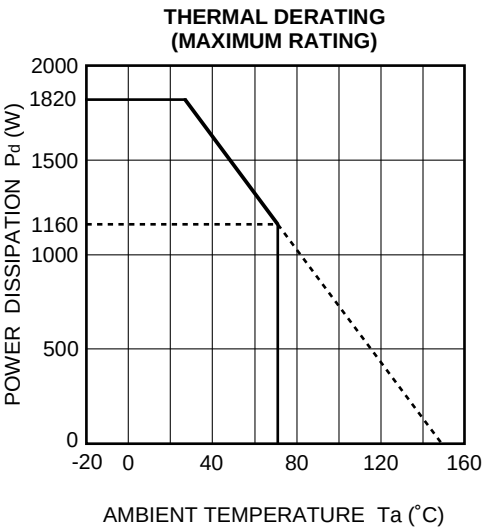
BLOCK DIAGRAM



ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Ratings	Unit
Vcc	Supply voltage	0.0, 10.0	V
Pd	Power dissipation	1815	mW
Kθ	Thermal derating	14.52	mW/°C
Topr	Operating temperature	-20 to +70	°C
Tstg	Storage temperature	-40 to +125	°C

TYPICAL CHARACTERISTICS



APPLICATION EXAMPLE

