

# AN5436N

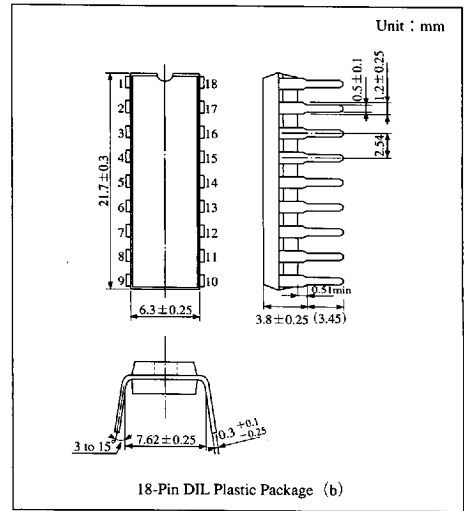
## Color TV Deflection-Signal Processing IC

### Overview

The AN5436N is an integrated circuit designed for color TV deflection-signal processing circuit. It can operate with 12V power supply and is suitable for compact and mediumsize color TV set.

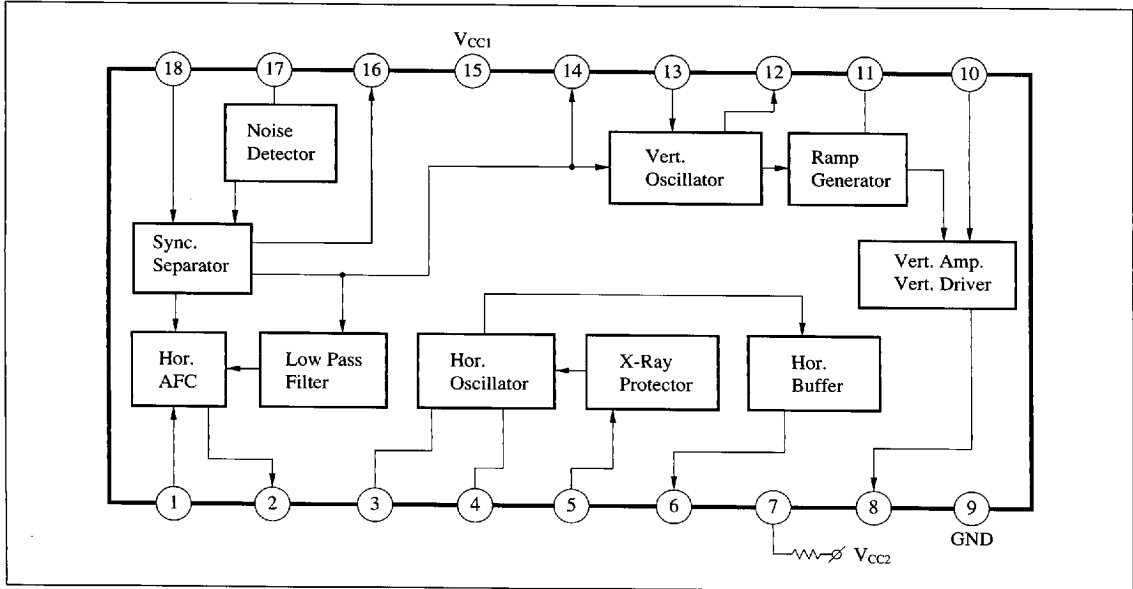
### Features

- Built-in vertical deflection driver circuit
- Incorporating vertical and horizontal oscillator circuit, it operates with high stability against changes of supply voltage and temperature
- Highly stable synchronous separation circuit against noise
- Built-in high voltage-protection circuit (X-ray protection)
- 12V supply voltage operation



ICs for TV

### Block Diagram



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### Pin Descriptions

Pin No.	Pin name	Pin No.	Pin name
1	AFC ref. signal input	10	DC, AC feedback input
2	Hor. AFC output	11	Vert. saw-tooth capacitor
3	Hor. hold volume	12	Vert. pulse output
4	Hor. osc. capacitor	13	Vert. hold volume
5	X-ray protector input	14	Vert. integral capacitor
6	Hor. output	15	V <sub>CC1</sub>
7	V <sub>CC2</sub>	16	Sync. sep. output
8	Vert. output	17	Noise det. input
9	GND	18	Video signal input

### Absolute Maximum Ratings (T<sub>a</sub> = 25°C)

Parameter		Symbol	Rating		Unit
Voltage	Supply voltage	V <sub>7-9</sub>	10.5		V
		V <sub>15-9</sub>	14.4		V
	Circuit voltage	V <sub>1-9</sub>	0	10	V
		V <sub>10-9</sub>	0	V <sub>15-9</sub>	V
		V <sub>12-9</sub>	0	10	V
		V <sub>17-9</sub>	0	6	V
		V <sub>18-9</sub>	-3	2	V
Current	Supply current	I <sub>7</sub>	16		mA
		I <sub>15</sub>	23		mA
	Circuit current	I <sub>2</sub>	-3	3	mA
		I <sub>3</sub>	-5	0	mA
		I <sub>4</sub>	-3	3	mA
		I <sub>5</sub>	-1	1	mA
		I <sub>6</sub>	-30	0	mA
		I <sub>8</sub>	-30	0	mA
		I <sub>12</sub>	-2	1	mA
		I <sub>13</sub>	0	30	mA
Power dissipation		P <sub>D</sub>	500		mW
Temperature	Operating ambient temperature	T <sub>opr</sub>	-20 to +70		°C
	Storage temperature	T <sub>stg</sub>	-55 to +150		°C

Note) "+" and "-" are flow-in and flow-out currents to/from the circuit, respectively.

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