

ICs for TV

**Panasonic**

# AN5790N, AN5792

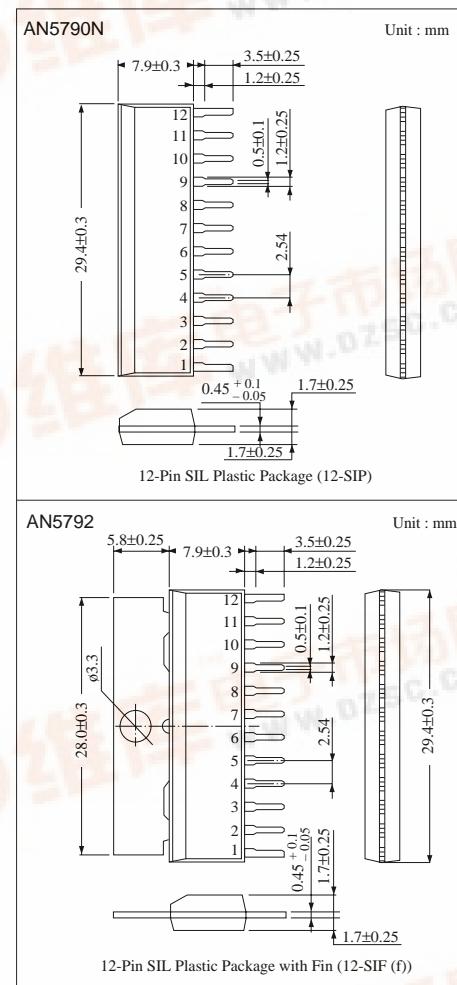
## Horizontal Signal Processing ICs for CRT Display

### ■ Overview

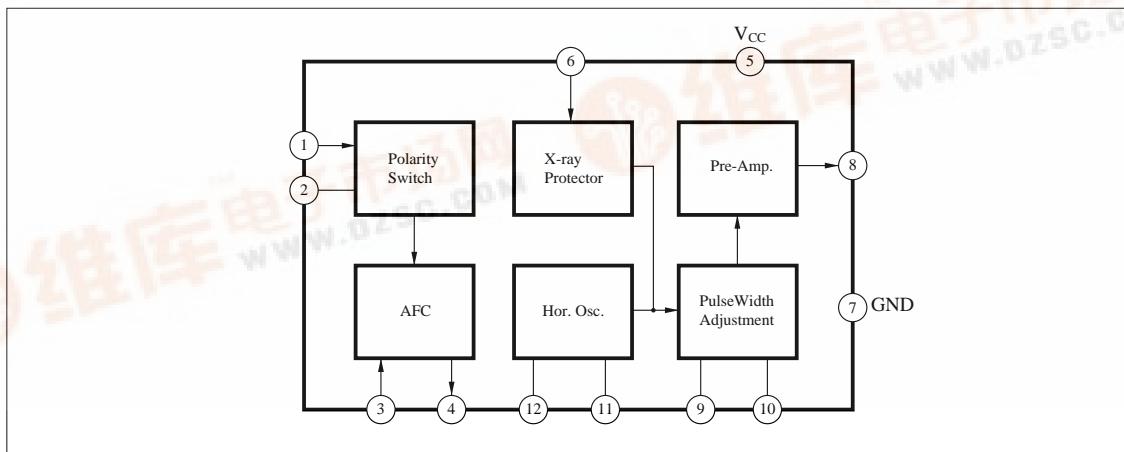
The AN5790N and AN5792 are the integrated circuits designed for CRT display horizontal signal processing circuits.

### ■ Features

- Horizontal synchronous signal is available in both polarities.
- Wide range of horizontal oscillation frequency : 14kHz to 60kHz.
- Output pulse width : 2 $\mu$ s to 40 $\mu$ s
- Package  
AN5790N...NF-12S(12-Pin SIL plastic package)  
AN5792...F-12S (12-Pin SIL plastic package with fin)



### ■ Block Diagram

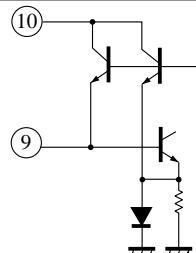
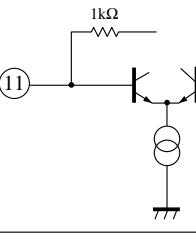




### ■ Pin Descriptions

Pin No.	Pin name	Typ. waveform	Description	Equivalent circuit
1	Horizontal synchronous signal input pin		Pin for inputting a horizontal synchronous signal.	
2	Polarity discrimination switching pin	DC	Both polarities of an input signal of Pin 1 are made available by connecting this pin to GND or setting it to OPEN	
3	Flyback pulse input pin		Flyback feedback pin. The standard value of amplitude is 1.5Vpp.	
4	AFC output pin	DC	Result of AFC detection.	
5	Supply voltage	DC	—	—
6	X-ray protecting circuit input pin	DC	When a voltage of 0.75V or more is applied, no horizontal output will not be generated.	
7	GND	DC	—	—
8	Horizontal drive output pin		Current when turned ON should be used at 300mA or less.	

## ■ Pin Descriptions (cont.)

Pin No.	Pin name	Typ. waveform	Description	Equivalent circuit
9	Trigger input pin		The output pulse width can be changed by the capacitance between Pins 9 and 10 and resistance between Pin 10 and V <sub>CC</sub> .	
10	Pulse width adjusting pin			
11	Sawtooth wave generating pin		Oscillation frequency can be changed by the capacitor to be connected to this pin.	
12	Horizontal oscillation circuit reference voltage	DC	Oscillation frequency is changed by the resistor between this pin and GND.	