

DATA SHEET

NEC

BIPOLAR ANALOG INTEGRATED CIRCUIT *μPC1884*

SYNC SIGNAL PROCESSOR FOR MULTI-SYNC DISPLAY

The *μPC1884* is a sync signal processor for multi-sync displays.

It integrates the functions necessary for the vertical/horizontal sync signals processing of a multi-sync display on a single chip. Because all functions can be handled by I²C bus, it is easy to interface with a CPU.

In addition to the basic sync signal processing, many functions, such as a H&V Dynamic Focus, multiple geometry correction circuits, and D/A converters for each control, are provided, making it easy to design applications.

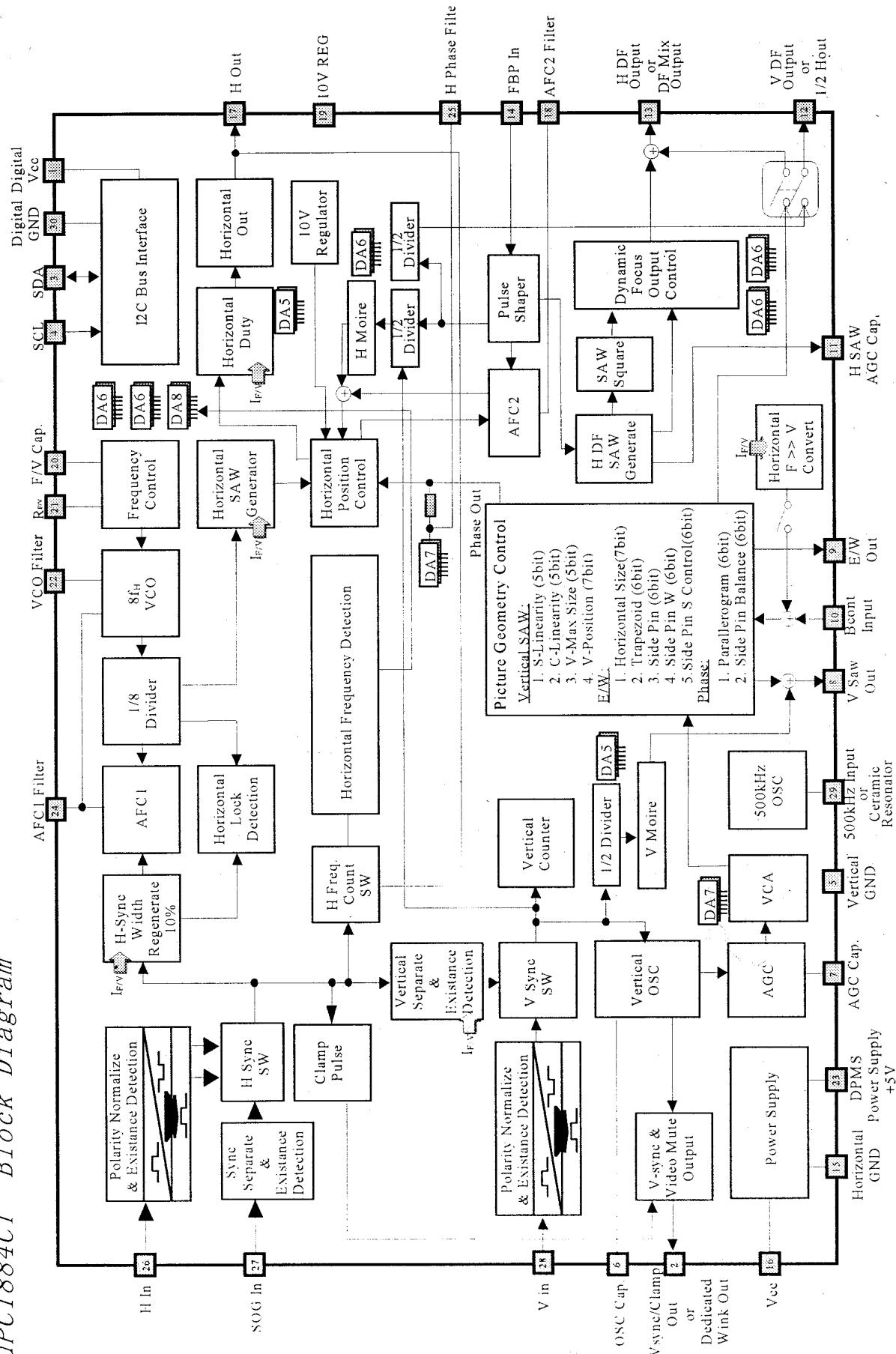
FEATURES

- I²C bus control
- Geometry correction function
 - : All functions are controlled by I²C bus.
 - : Geometry correction circuits are integrated on a single chip for V-S Linearity, V-C Linearity, trapezoid, Side-pin, side-pin W, side-pin S, parallelogram, and side-pin balance.
- D/A converters
 - : 20 D/A converter channels are provided to adjust each correction variable.
 - : Vertical S/C-shaped correction circuits are provided.
 - : Amplitude, Phase can be controlled. Dependent for Horizontal size.
 - : Dependent for vertical size.
 - : Cancel amount can be controlled.
 - : Green On Sync signal can be input with coupling capacitor.
- Vertical linearity correction
- Horizontal Dynamic Focus
- Vertical Dynamic Focus
- Horizontal Moire Canceller
- Sync separation circuit
- Vertical AGC circuit
- Size control circuit
- Position control circuit
- Polarity normalization circuit
 - : Vertical/horizontal screen size can be controlled.
 - : Vertical/horizontal screen position can be controlled.
 - : Both positive and negative polarities can be input for both vertical and horizontal sync signals.
- Vertical blanking generation circuit and video clamp generation circuit : Sand castle output
- Horizontal output duty adjustable
- Horizontal Lock detection circuit
- Power management supported

ORDERING INFORMATION

Part Number	Package
<i>μPC1884CT</i>	30-pin plastic shrink DIP (400 mil)

uPC1884CT Block Diagram



PIN CONFIGURATION (Top View)

30PIN • PLASTIC • SHRINK • DIP (400mil)

