

# M51387P

## 3-CHANNEL VIDEO AMPLIFIER FOR HIGH-RESOLUTION COLOR DISPLAY

### DESCRIPTION

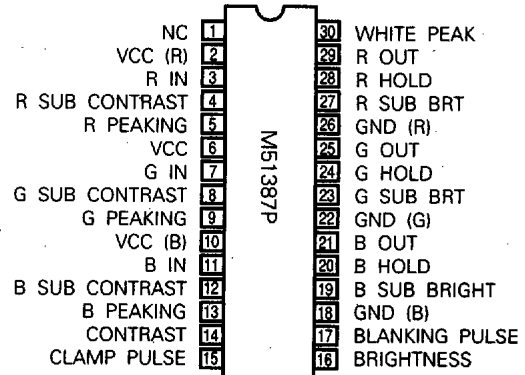
The M51387P is a semiconductor integrated circuit that has a built-in 3-channel amplifier with 50MHz band, which is the 3rd version of Video AMP Series (M51392P/M51399P) with a broad band that is given a favorable reception in TV markets.

Every channel is provided with a broad-band amplifier, main/sub contrast control, main/sub luminance (brightness) control, peaking, blanking, and peak limiter functions. Accordingly, this IC is constructed so as to be most suitable for a high-resolution color display monitor.

### FEATURES

- The employment of a new bi-polar wafer process makes it possible to reduce power dissipation, and 3 channels can be incorporated in this amplifier. ( $V_{CC}=12V$ ,  $I_{CC}=77mA$ )
- Input :  $1V_{PP}$  (Typical)  
Output :  $6V_{PP}$  (Maximum)  
Frequency band : 50MHz
- Main and sub contrast and luminance controls are provided: the main control can change contrast and luminance at the same time for 3 channels, and the sub control can change them independently for each channel.
- The feedback circuit built in the IC can produce a stable DC level at the IC output pins.

### PIN CONFIGURATION (TOP VIEW)



Outline 30P4

NC: No Connection

### APPLICATION

CRT display

### RECOMMENDED OPERATING CONDITION

Supply voltage range..... 11.0~12.5V  
Rated supply voltage ..... 12.0V

### BLOCK DIAGRAM

