



# HM86171

## COLOR PALLETE RAMDAC

### Features

- \* Hardware and software compatible with VGA, MCGA, and 8514/A graphics.
- \* Compatible with the RS170 video standard.
- \* Single monolithic, high performance CMOS.
- \* Pixel Rates up to 50 MHz.
- \* 256K possible colours.
- \* Pixel word mask.
- \* Up to 8 bits per pixel.
- \* RGB analogue output, 6 bit DAC per gun, composite blank.
- \* Triple six-bit video DAC.
- \* 256 x 18 bit high speed SRAM.
- \* TTL compatible inputs.
- \* Video signal output into 37.5Ω.
- \* Typical power consumption 500mW.
- \* Low AC glitch energy.
- \* Microprocessor compatible interface.
- \* Single +5V±10% power supply.
- \* 28 pin DIP package.
- \* A 50 MHz and a 35 MHz version are available.

### Pin Assignment

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|                 |    |    |                 |
|-----------------|----|----|-----------------|
| RED             | 1  | 28 | V <sub>CC</sub> |
| GREEN           | 2  | 27 | RS <sub>1</sub> |
| BLUE            | 3  | 26 | RS <sub>0</sub> |
| REF             | 4  | 25 | WR              |
| P0              | 5  | 24 | D7              |
| P1              | 6  | 23 | D6              |
| P2              | 7  | 22 | D5              |
| P3              | 8  | 21 | D4              |
| P4              | 9  | 20 | D3              |
| P5              | 10 | 19 | D2              |
| P6              | 11 | 18 | D1              |
| P7              | 12 | 17 | D0              |
| PCLK            | 13 | 16 | BLANK           |
| V <sub>SS</sub> | 14 | 15 | RD              |