

**HMC****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**

HM 86171

RED	1	28	V <sub>CC</sub>
GREEN	2	27	RS <sub>I</sub>
BLUE	3	26	RS <sub>O</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