



MOTOROLA

Color Television RGB to PAL/NTSC Encoder

The MC1377 will generate a composite video from baseband red, green, blue, and sync inputs. On board features include: a color subcarrier oscillator; voltage controlled 90° phase shifter; two double sideband suppressed carrier (DSBSC) chroma modulators; and RGB input matrices with blanking level clamps. Such features permit system design with few external components and accordingly, system performance comparable to studio equipment with external components common in receiver systems.

- Self-contained or Externally Driven Reference Oscillator
- Chroma Axes, Nominally 90° ($\pm 5^\circ$), are Optionally Trimable
- PAL/NTSC Compatible
- Internal 8.2 V Regulator

MC1377

COLOR TELEVISION RGB to PAL/NTSC ENCODER

SEMICONDUCTOR TECHNICAL DATA



P SUFFIX
PLASTIC PACKAGE
CASE 738



DW SUFFIX
PLASTIC PACKAGE
CASE 751D
(SO-20L)

ORDERING INFORMATION

Device	Operating Temperature Range	Package
MC1377DW	$T_A = 0^\circ \text{ to } +70^\circ\text{C}$	SO-20L
MC1377P		Plastic DIP

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Figure 1. Representative Block Diagram

