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NTE7120
Integrated Circuit
3 Channel Video Amp for High Resolution Color TV

Description:

The NTE7120 is a semiconductor integrated circuit in a 30–Lead DIP type package that has a built–in 3–channel amplifier with 50MHz band. 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 device is designed for use in high–resolution color display monitors.

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: $1V_{P–P}$ (Typical)
  Output: $V_{P–P}$ (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 DC feedback circuit built in the IC can produce a stable DC level at the IC output pins.

Applications:

- CRT Display

Absolute Maximum Ratings:

Supply Voltage, V_{CC} 14V
Power Dissipation, P_D 1670mW
Operating Temperature Range, T_{opr} . . . . . –20° to +65°C
Storage Temperature Range, T_{stg} . . . . . –40° to +125°C

Recommended Operating Conditions:

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Voltage Range	V_{CC}		11.0	–	12.5	V
Rated Supply Voltage	V_{CC}		0	12	–	V

Pin Connection Diagram



