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NTE1846 **Integrated Circuit** **NTSC System Single-Chip Color TV Signal Processor**

Description:

The NTE1846 is an integrated circuit in a 52-Lead DIP type package designed for use as a color TV signal processor. This device contains signal processing functions for video IF, sound IF, video, color, deflection signals, on a single chip.

Combined with a tuner and a simple output stage of discrete transistors, the NTE1846 enables more rationalized designs for color TV sets.

Features:

- Large Integration Enables Rationalization and High Reliability of Equipment and Low Power Consumption.
- A Direct Output Pin for Sound FM Detector is Provided, Applicable to Sound Multiplexing.
- The Most Appropriate Constants can be Set by the Synchronization Separation Input Pins for Horizontal and Vertical Deflection.
- No Horizontal Free Run Frequency Adjustments.
- Capable of AFT Defeat, Sound Muting
- DC Volume Controls Picture Quality, Contrast, Luminance, Color Saturation, Tint, and Volume.

Application:

NTSC System Color Television Set

Absolute Maximum Ratings: ($T_A = +25^{\circ}\text{C}$, unless otherwise specified)

Supply Voltage, V_{CC}	11V
Power Dissipation, P_D	1.4W
Operating Temperature Range, T_{opr}	-20° to $+65^{\circ}\text{C}$
Storage Temperature Range, T_{stg}	-40° to $+125^{\circ}\text{C}$

Recommended Operating Conditions:

Supply Voltage	9V
Horizontal Supply Current	14mA
Operating Supply Voltage	8.5V to 9.5V
Operating Horizontal Supply Currents	12mA to 16mA

Pin Connection Diagram

Electronic Attenuator Control	1	52	RF AGC Output
FM Demodulator Coil	2	51	Video Detector Output
De-Emphasis, Sound Direct I/O	3	50	AFT Output
Audio Driver Output	4	49	Brightness Control
Audio Negative Feedback, Bypass	5	48	SIF Input
IF AGC Filter	6	47	AFT Coil
RF AGC Control	7	46	Video Detector Coil
GND	8	45	Video Detector Coil
VIF Input	9	44	Vertical Synchronization Separation Input
VIF Input	10	43	Synchronizing Output
VIF, SIF Power Supply	11	42	Horizontal Synchronization Separation Input
Horizontal Power Supply	12	41	Pedestal Holding
AFC Filter	13	40	Video Input 1
AFC Flyback Pulse Input	14	39	Video Input 2
32f _H OSC	15	38	Contrast Control
X-Ray Protector Signal Input	16	37	Video Tone Control
Vertical Synchronizing Signal	17	36	Color Signal Input
Vertical OSC	18	35	GND
Sawtooth Wave Generator Capacitor	19	34	ACC Filter
Rated Current Pull-In	20	33	Killer Filter
Vertical AC/DC Feedback Input	21	32	APC Filter
Vertical Output	22	31	3.58MHz OSC
VCD Power Supply	23	30	Color Saturation Control
Horizontal Pre-Drive Output	24	29	G - Y Demodulated Output
Tint Control	25	28	B - Y Demodulated Output
Video Output	26	27	R - Y Demodulated Output

