



**ELECTRONICS, INC.**  
 44 FARRAND STREET  
 BLOOMFIELD, NJ 07003  
 (973) 748-5089

## NTE1446 Integrated Circuit Servo Control for VCR

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

Supply Voltage ( $V_{1-4}$ ), $V_{CC}$ .....	15.6V
Supply Current, $I_{CC}$ .....	45mA
Power Dissipation, $P_D$ .....	550mW
Operating Temperature Range, $T_{opr}$ .....	$-10^\circ$ to $+60^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-40^\circ$ to $+150^\circ\text{C}$

**Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$ ,  $V_{CC} = V_{1-4} = 12\text{V}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Circuit Current	$I_1$		18.5	23.3	28.0	mA
Video Amp Amplification	$A_V (15)$	$V_{16} = 1V_{p-p}$ Sine Wave, $f = 15.75\text{kHz}$	3.0	3.5	4.0	times
Vertical Pulse Amplitude	$V_H (13)$	$V_{16} = 1V_{p-p}$ Negative Pulse 60Hz, P.W. 650 $\mu\text{s}$	8.4	–	–	$V_{p-p}$
V.S.S. Sensitivity	$V_i (16)$	$V_{16} = \text{Pulse } 60\text{Hz}$ , P.W. 650 $\mu\text{s}$	3.0	7.6	20.0	$\text{mV}_{p-p}$
Record Multi Delay Time	$t_D (9)$	$V_{16} = 1V_{p-p}$ Pulse 60Hz, P.W. 650 $\mu\text{s}$	25.0	27.5	30.0	ms
Control Signal Amplification	$A_{CO}$	$V_3 = 5\text{mV}_{p-p}$ , Sine Wave 30Hz	70	150	300	times
Playback Multi Sensitivity	$V_{is}$	$V_3 = \text{Pulse } 30\text{Hz}$ (POS) P.W. 650 $\mu\text{s}$	0.6	0.9	1.5	$\text{mV}_{p-p}$
Playback Multi Delay Time	$V_{D3} (8)$	$V_3 = 5\text{mV}_{p-p}$ , Pulse 30Hz P.W. 650 $\mu\text{s}$	26	29	31	ms

### Pin Connection Diagram

