

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° to $+60^\circ\text{C}$
Storage Temperature Range, T_{stg}	-40° 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 μs	8.4	—	—	V_{P-P}
V.S.S. Sensitivity	$V_i (16)$	$V_{16} = \text{Pulse } 60\text{Hz}$, P.W. 650 μs	3.0	7.6	20.0	mV $_{P-P}$
Record Multi Delay Time	$t_D (9)$	$V_{16} = 1V_{P-P}$ Pulse 60Hz, P.W. 650 μs	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 μs	0.6	0.9	1.5	mV $_{P-P}$
Playback Multi Delay Time	$V_{D3} (8)$	$V_3 = 5\text{mV}_{P-P}$, Pulse 30Hz P.W. 650 μs	26	29	31	ms

Pin Connection Diagram

V _{CC}	1	16	Video Amp Input
Control Signal Amp	2	15	Video Amp Output
Control Signal Amp	3	14	Horiz Sync Input
GND	4	13	Horiz Sync Output
Track Mono Input	5	12	Vert Sync Input
Track Mono Cap	6	11	V _{CC}
Track Adjust	7	10	Delay Mono Cap
Track Amp Output	8	9	Control Head Amp Output

