



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

## NTE1711 Integrated Circuit 2 Head Recording Amp for VCR

**Description:**

The NTE1711 is an integrated circuit in a 9-Lead SIP type package designed for use as a recording amplifier in VCRs.

**Functions:**

- Mixer Circuit
- Recording Current Amplifier

**Features:**

- Video Head can be a Driver
- Supply Voltage of Either 9V or 12V

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

Supply Voltage,  $V_{CC}$  ..... 14.4V  
 Power Dissipation,  $P_D$  ..... 600mW  
 Operating Ambient Temperature Range,  $T_{opr}$  .....  $-20^\circ$  to  $+70^\circ\text{C}$   
 Storage Temperature Range,  $T_{stg}$  .....  $-40^\circ$  to  $+150^\circ\text{C}$

Note 1. Operating Supply Voltage Range:  $V_{CC(opr)} = 7.8\text{V}$  to  $13\text{V}$ .

**Electrical Characteristics:** ( $T_A = +25^\circ\text{C} \pm 2^\circ\text{C}$ ,  $V_{CC} = 9\text{V}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Circuit Current	$I_{tot}$		22	–	34	mA
Output Amplitude	$v_o$	$V_i = 50\text{mV}_{P-P}$	10	–	20	$\text{mV}_{P-P}$
2nd Harmonic Distortion	$D_{2f}$	$I_O = 15\text{mA}_{P-P}$	–	–	–35	dB
3rd Harmonic Distortion	$D_{3f}$	$I_O = 15\text{mA}_{P-P}$	–	–	–40	dB
Crosstalk	CT	$I_O = 15\text{mA}_{P-P}$	–	–	–35	dB
Cross Modulation	CM1	$I_O = 15\text{mA}_{P-P}$	–	–	–35	dB
	CM2	$I_O = 15\text{mA}_{P-P}$	–	–	–40	dB

**Pin Connection Diagram**  
(Front View)

