

NTE1575 Integrated Circuit B/W TV Sound IF Amplifier

Features:

- Supply Voltage Range: $V_{CC} = 3V$ to $8V$

Applications:

- Voice IF Amplifier
- Discriminator

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

Supply Voltage (Note 1), V_{CC} $8V$
 Power Dissipation ($T_A = +75^\circ C$), P_T $300mW$
 Operating Temperature Range, T_{opr} -20° to $+75^\circ C$
 Storage Temperature Range, T_{stg} -55° to $+125^\circ C$

Note 1. Recommended Operating Voltage is $5.5V$ Typ.

Electrical Characteristics: ($V_{CC} = 5.5V$, $f_o = 4.5MHz$, $\Delta f = \pm 25kHz$, $f_m = 1kHz$, $T_A = +25^\circ C$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_Q		13.9	17.0	21.8	mA
	e_o	$V_{in} = 100dB\mu$	160	270	400	mV_{rms}
Total Harmonic Distortion	THD	$V_{in} = 100dB\mu$	–	0.3	1.0	%
–3dB Sensitivity Limit	$V_{in}(lim)$		–	20.0	37.5	$dB\mu$
AM Rejection Ratio	AMR	$V_{in} = 60dB\mu$, $f = 1kHz$, $MOD = 30\%$	35	–	–	dB
Signal-to-Noise Ratio	S/N		–	55	–	dB

Pin Connection Diagram

