



ELECTRONICS, INC.
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NTE1612 Integrated Circuit AF PO, 0.7W for Battery Use

Features:

- Wide Operating Voltage (2V to 6V)
- Power Amplifier has High Output (430mW), Low Noise (0.25mV_{RMS}) and Low Distortion (0.4%)
- Maximum Output can be 700mW
- High Ripple Rejection Ratio (typically 46dB)
- Very Low High-Frequency Distortion and a Sort Cuppea Wave Form make this a Superior Audio Amplifier
- Built-In Power Switching Circuit

Applications:

- Portable Radio
- Television
- Cassette Tape Recorder
- Intercoms

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Power Supply Voltage, V _{CC}	9V
Power Dissipation, P _D	950mW
Derate Above 25°C	9.5mW
Operating Temperature Range, T _{opr}	-10° to +65°C
Storage Temperature Range, T _{stg}	-30° to +125°C

Electrical Characteristics: (T_A = +25°C, V_{CC} = 6V, R_L = 8Ω, f = 1kHz unless otherwise specified)

Parameter	Sym- bol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I _O	V _{IN} = 0V _{rms}	–	12	24	mA
Voltage Gain (Close Circuit)	G _{VC}	R _{NFC} = 47Ω, V _{IN} = 2.5mV _{rms}	48	52	54	dB
Maximum Output	P _{OM}	V _{IN} = 25mV _{rms}	600	700	–	mW
Rated Output	P _{OUT}	THD = 10%	350	430	–	mW
Total Harmonic Distortion	THD	P _O = 50mW	–	0.4	2	%
Output Noise Voltage	V _{NO}	R _g = 0Ω	–	0.25	0.7	mV _{rms}
Input Resistance	R _{IN}	P _O = 50mW	–	22	–	kΩ

Pin Connection Diagram
(Front View)

