ELECTRONICS, INC.
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NTE1135
Integrated Circuit
High Gain Audio Preamp

Features:
- Power Supply with Wide Working Voltage Range
- High Open–Loop Gain
- Extremely Low Distortion
- Low Noise
- High Input Impedance and Low Output Impedance
- Low Current Dissipation

Applications:
- Car Stereos
- Tape Recorders

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

Power Supply Voltage, V_{CC} 20V
Power Dissipation, P_D 500mW
Derate Above 25°C . . . . . 5.0mW/°C
Operating Temperature Range, T_{opr} . . . . . –25° to +75°C
Storage Temperature Range, T_{stg} . . . . . –55° to +125°C

Electrical Characteristics: (T_A = +25°C, V_{CC} = 12V unles otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_Q		0.9	1.5	2.3	mA
Open Loop Voltage Gain	G_{VO}	V_{IN} = –80dBm, f = 1kHz	70	79	–	dB
Maximum Output Voltage	V_{OM}	f = 1kHz, THD = 1%	2.0	2.6	–	V
Total Harmonic Distortion	THD	f = 1kHz, V_{OUT} = 0.5V_{rms}	–	0.06	0.15	%
Output Noise Voltage	V_{NO}	BW: 30Hz to 20kHz	–	60	100	μV_{rms}
Input Resistance	R_{IN}		–	120	–	kΩ
Output Resistance	R_{OUT}		–	5	–	Ω

Pin Connection Diagram
(Front View)