ELECTRONICS, INC.
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NTE1462
Integrated Circuit
Audio Preamp

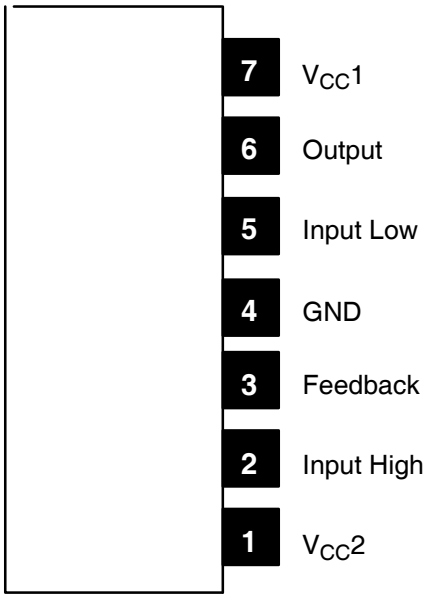
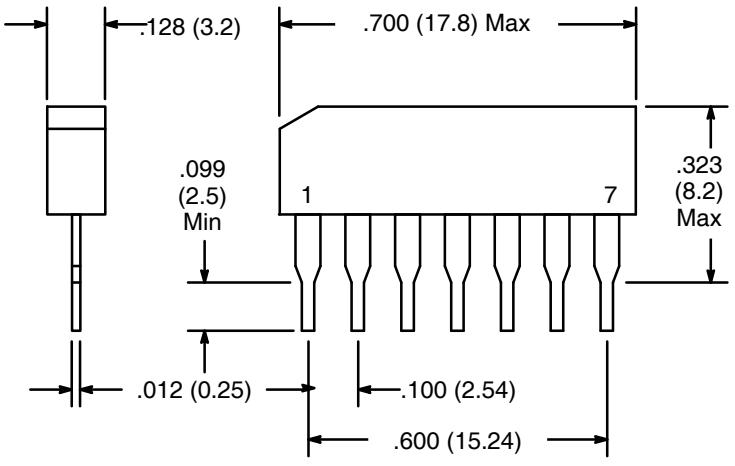
Features:
- Low Noise: V_{NI} = 0.8μV_{rms} (Typ.)
- High Open Loop Voltage Gain: G_{VO} = 92dB (Typ.)
- Low Distortion: THD = 0.1% (Max.) at V_{OUT} = 7V_{rms}, G_V = 40dB, f = 1kHz

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

Supply Voltage, V_{CC} 42V
Power Dissipation (note 1), P_D 400mW
Operating Ambient Temperature Range, T_{opr} . . . . . –30° to +75°C
Storage Temperature Range, T_{stg} . . . . . –55° to +125°C

Note 1. Derated above T_A = +25°C in the proportion of 4mW/°C.

Electrical Characteristics: (T_A = +25°C, V_{CC} = 35V unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC}	V_{IN} = 0	–	3.5	4.7	mA
Voltage Gain (Open Loop)	G_{VO}	V_{IN} = –85dBm, f = 1kHz	87	92	–	dB
Max. Output Voltage	V_{OM}	f = 1kHz, THD = 0.1%	7.0	9.0	–	V_{rms}
Equivalent Input Noise Voltage	V_{NI}	RIAA Equalizer R_g = 2kΩ, f = 1kHz	–	0.8	1.5	μV_{rms}

Pin Connection Diagram