ELECTRONICS, INC.
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NTE1399
Integrated Circuit
Dual, Audio Power Amp, 18W BTL

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

Supply Voltage, V_{CC} 18V
Output Current, $I_{O(Peak)}$ 4A
Power Dissipation, P_T 15W
Operating Junction Temperature, T_J . . . . . +150°C
Operating Temperature Range, T_{opr} . . . . . –20° to +70°C
Storage Temperature Range, T_{stg} . . . . . –55° to +125°C
Thermal Resistance, Junction–to–Case, R_{thJC} . . . . . 3°C/W

Electrical Characteristics: (V_{CC} = 13.2V, f = 1kHz, R_L = 4Ω, T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_Q	V_{in} = 0	40	80	160	mA
Input Bias Voltage	V_B	V_{in} = 0	–	20	40	mV
Voltage Gain	G_V	V_{in} = –55dBm	53	55	57	dB
Output Power	P_O	THD = 10%, R_L = 4Ω	15	18	–	W
		THD = 10%, R_L = 8Ω	–	11	–	W
Total Harmonic Distortion	THD	P_O = 1.5W	–	0.2	1.0	%
Noise Output	V_N	R_g = 10kΩ, BW = 20Hz to 20kHz	–	1.0	2.0	mV
Supply Voltage Rejection Ratio	SVRR	f = 500Hz	33	44	–	dB
Input Resistance	R_{in}		20	30	40	kΩ

Pin Connection Diagram
(Front View)