

NTE1323
Integrated Circuit
Module, Hybrid, Audio Power Amp, 15 Watt

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

Supply Voltage, $V_{CC\text{max}}$	54V
Operating Case Temperature, T_C	+85°C
Storage Temperature Range, T_{stg}	-30° to +100°C
Allowable Load Shorting Time ($V_{CC} = 38\text{V}$, $P_O = 15\text{W}$, $R_L = 8\Omega$, $f = 50\text{Hz}$), t_s	2sec

Recommended Operating Conditions: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Supply Voltage, V_{CC}	38V
Load Resistance, R_L	8Ω

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 38\text{V}$, $R_L = 8\Omega$, $R_g = 600\Omega$, $f = 1\text{kHz}$, $R_g = 2.2\text{k}\Omega$ unless otherwise specified)

Characteristics	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}		-	-	50	mA
Output Power	P_O	THD = 1%	15	-	-	W
Voltage Gain	VG	$P_O = 100\text{mW}$	32	33	34	dB
Total Harmonic Distortion	THD	$P_O = 100\text{mW}$	-	-	0.5	%
Input Resistance	r_i	$P_O = 100\text{mW}$	20	40	-	kΩ
Output Resistance	r_o	$P_O = 100\text{mW}$	-	0.2	-	Ω
Frequency Channel High	f_{CH}	$V_i = 50\text{mV}$, -3dB	50	-	-	kHz
Frequency Channel Low	f_{CL}	$V_i = 50\text{mV}$, -3dB	-	-	30	Hz
Power Bandwidth	PBW	THD = 1%, ±3dB	30 to 30k			Hz
Output Noise Voltage	V_{NO}	$R_g = 2.2\text{k}\Omega$	-	-	0.8	mV _{rms}

Pin Connection Diagram
(Front View)

