

**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, $T_{\text{stg}}$ .....	-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 <sub>rms</sub>

**Pin Connection Diagram**  
(Front View)

