



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089
<http://www.nteinc.com>

NTE1281 Integrated Circuit Module – Hybrid, Audio Power Amplifier, 50W

Features:

- 2 Power Supplies Required
- Darlington Type
- Pure Complementary Output

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

Maximum Supply Voltage, V_{CCmax} $\pm 53\text{V}$
 Collector Current, I_{Cmax} 5A
 Operating Junction Temperature, T_J $+150^\circ\text{C}$
 Storage Temperature Range, T_{stg} -30° to $+105^\circ\text{C}$
 Thermal Resistance, Junction-to-Case, R_{thJC} 1.8°C/W
 Allowable Load Shorting Time ($V_{CC} = \pm 36\text{V}$, $f = 50\text{Hz}$, $R_L = 8\Omega$, $P_O = 50\text{W}$), t_s 2sec

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

Supply Voltage, V_{CC} $\pm 36\text{V}$
 Load Resistance, R_L 8Ω

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = \pm 36\text{V}$, $R_L = 8\Omega$, $R_g = 600\Omega$, $V_G = 40\text{dB}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}	$V_{CC} = \pm 43\text{V}$	-	40	80	mA
Output Power	P_O	THD = 0.1%, $f = 20\text{Hz}$ to 20kHz	50	-	-	W
Total Harmonic Distortion	THD	$P_O = 1\text{W}$ to 50W , $f = 20\text{Hz}$ to 20kHz	-	-	0.1	%
		$P_O = 1\text{W}$, $f = 1\text{kHz}$	-	0.02	-	%

Pin Connection Diagram
(Front View)

