

NTE1358 Integrated Circuit Module, AF PO, 50W, Dual Power Supply

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

Maximum Supply Voltage, $V_{CC\text{max}}$ $\pm 53\text{V}$
 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
 Available Time for Load Shorted ($V_{CC} = \pm 36\text{V}$, $R_L = 8\Omega$, $f = 50\text{Hz}$, $P_O = 50\text{W}$), t_s 2sec

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

Recommended Supply Voltage, V_{CC} $\pm 23\text{V}$
 Load Resistance, R_L 8Ω

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = \pm 36\text{V}$, $R_L = 8\Omega$ (Non-Inductive Load), $R_g = 600\Omega$, $V_G = 26.3\text{dB}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}	$V_{CC} = \pm 43\text{V}$	20	40	80	mA
Output Power	P_O	THD = 0.02%, $f = 20\text{Hz}$ to 20kHz	50	—	—	W
		$V_{CC} = \pm 31\text{V}$, THD = 0.03%, $f = 1\text{kHz}$, $R_L = 4\Omega$	55	—	—	W
Total Harmonic Distortion	THD	$P_O = 1$ to 50W , $f = 20\text{Hz}$ to 20kHz	—	—	0.02	%
Emitter Resistance	R_E		0.18	0.22	0.30	Ω

Note 1. For power supply at the time of test, use a constant-voltage power supply unless otherwise specified.

Pin Connection Diagram
(Front View)

