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NTE1820 Integrated Circuit Module, Dual AF PO, 30W/Ch, Dual Power Supply

Features:

- Contains Emitter Follower Circuit for Upgrading
- Case Temperature +125°C is Guaranteed, Thereby Enabling Great Reduction of Heat Sink
- By Attaching Muting Circuit Externally, Pop Noise at Power ON/OFF can be Rejected

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

Maximum Supply Voltage, V_{CCmax} $\pm 43\text{V}$
 Thermal Resistance, Junction-to-Case, R_{thJC} 2.2°C/W
 Maximum Junction Temperature, T_J $+150^\circ\text{C}$
 Operating Case Temperature, T_C $+125^\circ\text{C}$
 Storage Temperature Range, T_{stg} -30° to $+125^\circ\text{C}$
 Available Time for Load Shorted ($V_{CC} = \pm 27.5\text{V}$, $R_L = 8\Omega$, $P_O = 30\text{W}$, $f = 50\text{Hz}$), t_s 2sec

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

Recommended Supply Voltage, V_{CC} $\pm 27.5\text{V}$
 Load Resistance, R_L 8Ω

Operating Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = \pm 27.5\text{V}$, $R_L = 8\Omega$, $R_g = 600\Omega$, $V_G = 40\text{dB}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}	$V_{CC} = \pm 34\text{V}$	35	70	120	mA
Output Power	$P_{O(1)}$	THD = 0.02%, $f = 20\text{Hz}$ to 20kHz	30	–	–	W
	$P_{O(2)}$	$V_{CC} = \pm 23\text{V}$, THD = 0.08%, $R_L = 4\Omega$, $f = 1\text{kHz}$	30	–	–	W
Total Harmonic Distortion	THD	$P_O = 1\text{W}$, $f = 20\text{Hz}$ to 20kHz	–	–	0.02	%
Frequency Response	f_L, f_H	$P_O = 1\text{W}$	10 to 100k		–	Hz
Input Resistance	r_i	$P_O = 1\text{W}$	–	90k	–	Ω
Output Noise Voltage	V_{NO}	$V_{CC} = \pm 34\text{V}$	–	–	1.2	mV_{rms}
Midpoint Voltage	V_N	$V_{CC} = \pm 34\text{V}$	–70	–	+70	mV

