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NTE7032 Integrated Circuit Module – AF Power Amp, Single Channel, 120W Min

Features:

- Built-In Muting Circuit Reduces Pop On Noises

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

Maximum Supply Voltage, V_{CCmax}	$\pm 80\text{V}$
Thermal Resistance, Junction-to-Case (Per Power Transistor), R_{thJC}	1.4°C/W
Junction Temperature, T_J	$+150^\circ\text{C}$
Operating Case Temperature, T_C	$+125^\circ\text{C}$
Storage Temperature Range, T_{stg}	-30° to $+125^\circ\text{C}$

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

Operating Voltage, V_{CC}	$\pm 55.0\text{V}$
Load Resistance, R_L	8Ω

Operating Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = \pm 55.0\text{V}$, $R_L = 8\Omega$, $R_g = 600\Omega$, $V_G = 40\text{dB}$, R_L : Non-Inductive Load unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}	$V_{CC} = \pm 66\text{V}$	15	40	120	mA
Output Power	P_O	THD = 0.008%, $f = 20\text{Hz}$ to 20kHz	120	-	-	W
Total Harmonic Distortion	THD	$P_O = 1.0\text{W}$, $f = 1\text{kHz}$	-	-	0.008	%
Frequency Response	f	$P_O = 1.0\text{W}$, $+0\text{dB}$, -3dB	20 to 50k			Hz
Input Resistance	r_i	$P_O = 1.0\text{W}$, $f = 1\text{kHz}$	-	55	-	k Ω
Output Noise Voltage	V_{NO}	$V_{CC} = \pm 66\text{V}$, $R_g = 10\text{k}\Omega$	-	-	1.2	mVrms
Midpoint Voltage	V_N	$V_{CC} = \pm 66\text{V}$	-70	0	+70	mV

Equivalent Circuit

