ELECTRONICS, INC.
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NTE1877
Integrated Circuit
Module, Dual AF PO, 28W/Ch, Dual Power Supply

Absoulte Maximum Ratings: (T_A = +25°C unless otherwise specified)

Supply Voltage, V_{CC}max 52.5V
Maximum Output Power (V_{CC} = 45V, f = 1kHz, R_L = 4Ω), $P_O$max 50W
Operating Junction Temperature, T_J . . . . . +150°C
Operating Case Temperature, T_C . . . . . +125°C
Storage Temperature Range, T_{stg} . . . . . –30° to +125°C
Thermal Resistance, Junction–to–Case, R_{thJC} . . . . . 3.5°C/W
Turn–On Time (V_{CC} = 35V, R_L = 4Ω, P_O = 28W, f = 1kHz), t_S 2sec

Recommended Operating Conditions: (T_A = +25°C unless otherwise specified)

Supply Voltage, V_{CC} 35V
Load Resistance, R_L 4Ω

Electrical Characteristics: (T_A = +25°C, V_{CC} = 35V, R_L = 4Ω, R_g = 600Ω, V_G = 40dB unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Idle Current	I_{CCO}	V_{CC} = 45V	–	–	175	mA
Power Output	P_O	V_{CC} = 13.2V, THD = 10%, f = 1kHz	4.8	–	–	W
		THD = 10%, f = 1kHz	28	–	–	W
		THD = 1%, f = 70Hz to 15kHz	18	21	–	W
Total Harmonic Distortion	THD	V_{CC} = 8V, P_O = 1W, f = 1kHz	–	0.4	1.0	%
		V_{CC} = 45V, P_O = 1W, f = 1kHz	–	–	0.5	%
Frequency Range	f_L, f_H	P_O = 1W, V_G = –3dB	40 to 50k			Hz
Input Resistance	r_i	P_O = 1W, R_g = 10kΩ	–	21	–	kΩ
Noise Voltage	V_{NO}	V_{CC} = 45V, R_g = 10kΩ	–	–	0.8	mV_{rms}

Pin Connection Diagram
(Front View)



