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

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

Maximum Supply Voltage, V_{CC}max . . . . . ±53V
Operating Junction Temperature, T_J . . . . . +150°C
Storage Temperature Range, T_{stg} . . . . . –30° to +105°C
Thermal Resistance, Junction–to–Case, R_{thJC} . . . . . 1.8°C/W
Available Time for Load Shorted (V_{CC} = ±36V, R_L = 8Ω, f = 50Hz, P_O = 50W), t_s 2sec

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

Recommended Supply Voltage, V_{CC} . . . . . ±23V
Load Resistance, R_L 8Ω

Electrical Characteristics: (T_A = +25°C, V_{CC} = ±36V, R_L = 8Ω (Non–Inductive Load), R_g = 600Ω, V_G = 26.3dB unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}	V_{CC} = ±43V	20	40	80	mA
Output Power	P_O	THD = 0.02%, f = 20Hz to 20kHz	50	–	–	W
		V_{CC} = ±31V, THD = 0.03%, f = 1kHz, R_L = 4Ω	55	–	–	W
Total Harmonic Distortion	THD	P_O = 1 to 50W, f = 20Hz 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)