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NTE15031 Integrated Circuit Module, Hybrid, Dual Audio Power Amp, 18W/Ch, Dual Power Supplies

Applications:

- Video Projectors

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

Supply Voltage, V_{CC} $\pm 30\text{V}$
 Operating Case Temperature, T_C $+105^\circ\text{C}$
 Storage Temperature Range, T_{stg} -30° to $+105^\circ\text{C}$
 Total Thermal Resistance, Junction-to-Case, R_{thJC} 1.0°C/W
 Available Time for Load Shorted ($V_{CC} = \pm 20.5\text{V}$, $R_L = 8\Omega$, $P_O = 18\text{W}$, $f = 50\text{Hz}$), t_S 2sec

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

Supply Voltage, V_{CC} $\pm 24\text{V}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = \pm 24\text{V}$, $R_g = 50\Omega$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}		–	15	25	mA
Noise Voltage	V_{NO}		–	–	0.2	mV_{rms}
Midpoint Voltage	V_N		–50	0	+50	mV
Output Delay Time	t_D	$V_{CC} = \pm 20.5\text{V}$, $f = 15.75\text{kHz}$, Triangular Wave Input $V_{P-P} = 1.5\text{V}$	–	–	1	μs

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

Note 2. The output noise voltage is represented by the peak value on an RMS scale (V_{TVM}) of the average value indicated.

Pin Connection Diagram
(Front View)

15	Rt Ch Input (+)
14	Rt Ch Input (-)
13	Bypass
12	Feedback
11	Rt Ch Output
10	Rt Ch (-) V _{CC}
9	(+) V _{CC}
8	(+) V _{CC}
7	Lt Ch (-) V _{CC}
6	Lt Ch Output
5	Feedback
4	Bypass
3	GND
2	Lt Ch Input (-)
1	Lt Ch Input (+)

