ELECTRONICS, INC.
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NTE799
Integrated Circuit
Four Channel “SQ” Decoder

Description:

The NTE799 consists of two high input impedance preamplifiers which are fed with left total, L_T, and right total, R_T signals. The preamplifiers each feed two all–phase networks which generate two L_T signals in quadrature and two R_T signals in quadrature. The four signals are matrixed to yield left front, left back, right front, and right back signals (L_F, L_B, R_F, R_B).

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

Power Supply Voltage, V_{CC} 25V
Power Dissipation (T_A = +25°C), P_D 750mW
Derate Above +25°C . . . . . 6.7mW/°C
Operating Temperature Range, T_{opr} . . . . . 0° to +75°C
Storage Temperature Range, T_{stg} . . . . . –65° to +150°C

Electrical Characteristics: (V_{CC} = +20V, V_{in} = 0.5$V_{(RMS)}$ @ 1kHz, T_A = +25°C unless otherwise specified)

Parameter	Min	Typ	Max	Unit
Supply Current Drain	11	16	21	mA
Input Impedance	1.8	3.0	–	mΩ
Output Impedance	–	5.0	–	kΩ
Channel Balance (L_F/R_F)	–1.0	0	+1.0	dB
Voltage Gain L_F/L_T or R_F/R_T	–1.0	0	+1.0	dB
Relative Voltage Gain L_B'/L_F' or R_F/R_T	–1.0	0	+1.0	dB
Maximum Input Voltage for 1% THD at Output R_T or L_T	2.0	–	–	$V_{(RMS)}$
Total Harmonic Distortion R_T or L_T	–	0.1	–	%
Signal to Noise Ratio (Short–Circuit Input V_O = 0.5$V_{(RMS)}$ with Output Noise Referenced to Output Voltage, V_O) (BW = 20Hz to 20kHz)	–	80	–	dB

Pin Connection Diagram