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NTE1529
Integrated Circuit
Dual OP Amp

Description:

The NTE1529 is a dual operational Amplifier with a phase compensation circuit built–in. It is suited for application to various electronic circuits such as active filters and audio preamplifiers.

Features:

- Phase Compensation Circuit
- High Gain, Low Noise
- Output Short–Circuit Protection
- Two Circuits Symmetrically Arranged in 9–Lead plastic SIP Package

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

Voltage, Supply Voltage, V_{CC}, V_{EE} . . . . . ±18V
Differential Input Voltage, V_{ID} . . . . . ±30V
Common–Mode Input Voltage, V_{ICM} . . . . . ±15V
Power Dissipation, P_D 500mW
Operating Ambient Temperature Range, T_{opr} . . . . . –20° to +75°C
Storage Temperature Range, T_{stg} . . . . . –55° to +125°C

Electrical Characteristics: (V_{CC} = 15V, V_{EE} = –15V, T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Offset Voltage	$V_{I(offset)}$	$R_S \le 10k\Omega$	–	0.5	6	mV
Input Offset Current	I_{10}		–	5	200	nA
Input Bias Current	I_{BIAS}		–	–	500	nA
Voltage Gain	G_V	$R_L \ge 2k\Omega$, V_O = ±10V	86	100	–	dB
Maximum Output Voltage	$V_{O(max)}$	$R_L \ge 10k\Omega$	±12	±14	–	V
		$R_L \ge 2k\Omega$	±10	±13	–	V
Common–Mode Input Voltage Width	V_{CM}		±12	±14	–	V
Common–Mode Rejection Ratio	CMR		70	90	–	dB
Supply Voltage Rejection Ratio	SVR		–	30	150	µV/V
Power Consumption	P_C	$R_L = \infty$	–	90	170	mW
Slew Rate	SR	$R_L \ge 2k\Omega$	–	1.0	–	V/µs
Input Referred Noise Voltage	V_{ni}	R_S = 1kΩ, B = 10Hz ~ 30kHz	–	2.5	–	μV_{rms}

Pin Connection Diagram
(Front View)