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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: ($T_A = +25^\circ\text{C}$ 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: ($V_{CC} = 15\text{V}$, $V_{EE} = -15\text{V}$, $T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Offset Voltage	$V_{I(\text{offset})}$	$R_S \leq 10\text{k}\Omega$	-	0.5	6	mV
Input Offset Current	I_{10}		-	5	200	nA
Input Bias Current	I_{BIAS}		-	-	500	nA
Voltage Gain	G_V	$R_L \geq 2\text{k}\Omega$, $V_O = \pm 10\text{V}$	86	100	-	dB
Maximum Output Voltage	$V_{O(\text{max})}$	$R_L \geq 10\text{k}\Omega$	±12	±14	-	V
		$R_L \geq 2\text{k}\Omega$	±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	$\mu\text{V/V}$
Power Consumption	P_C	$R_L = \infty$	-	90	170	mW
Slew Rate	SR	$R_L \geq 2\text{k}\Omega$	-	1.0	-	$\text{V}/\mu\text{s}$
Input Referred Noise Voltage	V_{ni}	$R_S = 1\text{k}\Omega$, $B = 10\text{Hz} \sim 30\text{kHz}$	-	2.5	-	μV_{rms}

Pin Connection Diagram
(Front View)

