



ELECTRONICS, INC.
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NTE1019 Integrated Circuit Module, Hybrid, Low Noise Equalizer Amp

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

Supply Voltage, $V_{CC\text{max}}$ 30V
Power Dissipation, $P_{D\text{max}}$ 300mW
Storage Temperature Range, T_{stg} -20° to $+100^\circ\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Voltage	V_{CC}		—	20	—	V

Electrical Characteristics: ($V_{CC} = 20\text{V}$, $T_A = +25^\circ\text{C}$, $f = 1\text{kHz}$, $R_g = 600\Omega$, $R_L = 51\text{k}\Omega$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Gain Voltage	V_G	Open Loop	62	65	—	dB
		Closed Loop	34.0	35.5	37.0	dB
Total Harmonic Distortion	THD	$V_O = 1\text{V}$	—	—	0.01	%
Output Voltage	V_O		4.5	—	—	V
Input Resistance	r_i		100	110	—	$\text{k}\Omega$
Input Noise Voltage	V_{NI}	$R_g = 2\text{k}\Omega$	—	1.0	—	μV
Output Noise Voltage	V_{NO}	$R_g = 2\text{k}\Omega$	—	—	12	mV

Pin Connection Diagram (Front View)

