

NTE1019 Integrated Circuit Module, Hybrid, Low Noise Equalizer Amp

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

Supply Voltage, V_{CCmax} 30V
 Power Dissipation, P_{Dmax} 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)

