



ELECTRONICS, INC.
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NTE1004 Integrated Circuit AFT System for TV

Features:

- Stable High Gain
- Superior Control Ability of Frequency

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

Allowable Dissipation Power ($T_A \leq 65^\circ\text{C}$), P_{dmax} 500mW
 Supply Current, I_{14max} 50mA
 Operation Temperature Range, T_{opg} -20° to $+85^\circ\text{C}$
 Storage Temperature Range, T_{stg} -55° to $+125^\circ\text{C}$

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

Supply Voltage, V_{CC} 30V

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 30\text{V}$, $R_s = 1.5\text{k}\Omega$, unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Dissipation Current	I_{CC}	$V_{14} = 10.5\text{V}$	4.0	6.5	9.5	mA
Voltage at Pin 14	V_{14}		10.9	11.8	12.8	V
Voltage at Pin 7	V_7		5	6	8	V
Voltage at Pin 8	V_8		5	6	8	V
Current at Pin 4	I_4		1	2	4	mA
Offset Voltage at Pin 7 to 8			-1.0	0	1.0	V
S Curve at Pin 7		$V_i = 20_mV_{rms}, f = 58.75\text{MHz}$	6.0	-	-	V_{p-p}
S Curve at Pin 8			6.0	-	-	V_{p-p}
S Curve Gradient at Pin 7		$V_i = 40_mV_{rms}, \Delta f = \pm 50\text{kHz}$	0.04	-	-	V/kHz
Power Dissipation	P_D		130	140	150	mW

Pin Connection Diagram



