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## NTE1412 Integrated Circuit Recording Video Signal Processor

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

Supply Voltage ( $V_{17-7}$ ), $V_{CC}$ .....	14.4V
Circuit Voltage, $V_{20-7}$ .....	14.4V
Power Dissipation, $P_D$ .....	630mW
Operating Temperature Range, $T_{opr}$ .....	$-20^\circ\text{C}$ to $+70^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-40$ to $+150^\circ\text{C}$

**Electrical Characteristics:** ( $V_{CC} = +12\text{V}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Circuit Current	$I_{tot}$		30	–	50	mA
AGC Output Amplitude	$V_{24}$	Video Signal $0.5V_{P-P}$	0.45	–	0.95	$V_{P-P}$
AGC Control Sensitivity	$\Delta V_{24}$	0.25 to $1V_{P-P}$	–	–	2	dB
Sync Separation Input Sensitivity	$S_5$		0.4	–	–	$V_{P-P}$
Sync Separation Output Amplitude	$V_6$		5.7	–	6.7	$V_{OP}$
Color Amplifier Gain	$G_{21-22}$	$f = 1\text{MHz}$ , $0.3V_{P-P}$	6.5	–	9.5	dB
Color/BW Switch Sensitivity	$S_{23}$		4	–	–	V
Video Amplifier Gain	$G_{19-18}$	$f = 1\text{MHz}$ , $0.3V_{P-P}$	10.5	–	13.5	dB
FM Modulator						
OSC Frequency	$f_{09}$	$C = 100\text{pF}$ , $R = 2.2\text{k}\Omega$	3.3	–	4.1	MHz
OSC Output 2 <sup>nd</sup> Harmonics	$D_{2f}$		–	–	–40	dB
Output Amplitude	$V_9$		1.1	–	1.6	$V_{P-P}$
Frequency Control Sensitivity	$\beta_9$		1.7	–	2.2	MHz/V

**Note 1. Limited Availability: Not recommended for new design.**

### Pin Connection Diagram

