ELECTRONICS, INC.
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NTE1412
Integrated Circuit
Recording Video Signal Processor

Absolute Maximum Ratings: (T_A = +25°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°C to +70°C
Storage Temperature Range, T_{stg} . . . . . –40 to +150°C

Electrical Characteristics: (V_{CC} = +12V 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 0.5$V_{P–P}$	0.45	–	0.95	$V_{P–P}$
AGC Control Sensitivity	ΔV_{24}	0.25 to 1$V_{P–P}$	–	–	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 = 1MHz, 0.3$V_{P–P}$	6.5	–	9.5	dB
Color/BW Switch Sensitivity	S_{23}		4	–	–	V
Video Amplifier Gain	$G_{19–18}$	f = 1MHz, 0.3$V_{P–P}$	10.5	–	13.5	dB
FM Modulator OSC Frequency	f_{o9}	C = 100pF, R = 2.2kΩ	3.3	–	4.1	MHz
OSC Output 2nd Harmonics	D_{2f}		–	–	–40	dB
Output Amplitude	V_9		1.1	–	1.6	$V_{P–P}$
Frequency Control Sensitivity	β_9		1.7	–	2.2	MHz/V

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

Pin Connection Diagram