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NTE1621 Integrated Circuit VCR, Rec Video Proc

Features:

- Video signal AGC circuit
- Pre-emphasis circuit
- HFM modulator
- Synchro separator
- White Dark Clip
- Keyed AGC
- Supply voltage either 9V or 12V

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

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

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Item	Symbol	Condition	Min	Typ	Max	Unit
	I_{20}	$V_{CC} = 12\text{V}$	28	–	50	mA
AGC	$v_o(\text{AGC}-24)$	$V_{CC} = 12\text{V}$, Video Signal $0.5V_{p-p}$	0.45	–	1.05	V_{p-p}
AGC	$\Delta v_o(\text{AGC}-24)$	$V_{CC} = 12\text{V}$, $0.25 \sim 1.0V_{p-p}$			2	dB
Sync Sep.	S5	$V_{CC} = 12\text{V}$	0.4	–	–	V_{p-p}
Sync Sep	S6	$V_{CC} = 12\text{V}$	5.7	–	6.7	V_{p-p}
	G_{V21-22}	$V_{CC} = 12\text{V}$, $f = 1\text{MHz}$, $0.3V_{p-p}$	6.6	–	9.6	dB

Electrical Characteristics: ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Item	Symbol	Condition	Min	Typ	Max	Unit
B/W	S23	$V_{CC} = 12\text{V}$	4	–	–	V
	G_{V19-18}	$V_{CC} = 12\text{V}$, $f = 1\text{MHz}$, $0.3V_{p-p}$	11.0	–	14.0	dB
FM	f_{09}		3.3	–	4.1	MHz
FM	D_{2f9}	$V_{CC} = 12\text{V}$, $R_{15} = 1.1\text{k}\Omega$			–40	dB
FM	v_{o9}	$R_{11} = 2.2\text{k}\Omega$, $C = 100\text{pF}$	1.15	–	1.65	V_{p-p}
FM	β_9		1.8	–	2.3	MHz/V

Pin Connection Diagram



