ELECTRONICS, INC.
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NTE1264
Integrated Circuit
Video AGC Circuit for VCR

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Supply Voltage ($V_{12–4}$), V_{CC} 15.6V
Supply Current, I_{CC} 45mA
Power Dissipation, P_D 490mW
Operating Temperature Range, T_{opr} . . . . . –20° to +70°C
Storage Temperatue Range, T_{stg} . . . . . –40° to +150°C

Electrical Characteristics: (V_{CC} = $V_{12–4}$ = 12V, T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Circuit Current	I_{tot}		15	25	38	mA
Video Signal Input Voltage	V_{11}		2	3	4	V
AGC Output Amplitude	$A_{AGC(7)}$	V_i = 0.5$V_{P–P}$	1.0	1.3	1.8	$V_{P–P}$
AGC Control Sensitivity	$\beta_{AGC(7)}$	f = 10kHz, –10 to +5dB, V_{11} = 0.5$V_{P–P}$ (0dB)	–	0.5	1.0	dB
AGC Circuit Gain	$G_{AGC(7)}$	f = 10kHz, V_i = 0.1$V_{P–P}$	–	22	–	dB
AGC Signal–to–Noise Ratio	$S/N_{AGC(7)}$	Video Signal 0.15$V_{P–P}$	45	50	–	dB
AGC Frequency Chracteristics	$Gf_{(7)}$	f_1 = 1MHz, f_2 = 5MHz, V_i = 0.1$V_{P–P}$	–	0.5	–	dB
Emphasis Gain	G_{EH}	f_1 = 10kHz, f_2 = 2MHz, V_i = 0.3$V_{P–P}$	7.1	8.0	8.5	dB
Emphasis LF Gain	G_{EL}	f = 10kHz, V_i = 0.3$V_{P–P}$	8	10	12	dB
AGC Distortion	D_{AGC}	f = 10kHz, V_i = 0.5$V_{P–P}$	–	0.5	1.5	%

Pin Connection Diagram