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NTE1419
Integrated Circuit
Head Amp Circuit for VCR

Features:
- Video Signal Pre–Amplifier Circuit
- Filter Amplifier Circuit
- Mixer Amplifier Circuit
- Head Switch Over Circuit
- Supply Voltage, either 9V or 12V

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

Supply Voltage, V_{CC} 14.4V
Power Dissipation, P_D 530mW
Operating Temperature Range, T_{opg} . . . . . –20° to +70°C
Storage Temperature Range, T_{stg} . . . . . –40° to +150°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_1		26	–	44	mA
Voltage Gain (Head Amp)	$G_{V(1)}$	f = 4MHz, v_i = 1mV$_{p-p}$	50.5	–	62.5	mA
	$G_{V(1)}$		50.5	–	62.5	mA
Voltage Gain (Mix Amp)	$G_{V(3)}$		10	–	14	dB
Second Harmonic Distortion (Head Amp)	$D_{2(1)}$		–	–	–40	dB
	$D_{2(2)}$		–	–	–40	dB
Input Noise Voltage	$V_{ni(1)}$	f = 1MHz, B.P.F	–	–	2	μV_{rms}
	$V_{ni(2)}$		–	–	–2	μV_{rms}
Sensitivity	S		300	–	–	μA

Pin Connection Diagram



