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## NTE15043 Integrated Circuit Head Amplifier Circuit for 2 Head VCR

**Features:**

- Built-in Peaking Amplifier Circuit
- Less Noise Voltage Referred to Input:  $1\mu V_{rms}$

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

Supply Voltage,  $V_C$  ..... 6V  
 Power Dissipation ( $T_A = +70^\circ C$ ),  $P_D$  ..... 130mW  
 Operating Ambient Temperature,  $T_{opr}$  .....  $-20^\circ$  to  $+70^\circ C$   
 Storage Temperature Range,  $T_{stg}$  .....  $-55^\circ$  to  $+150^\circ C$

**Electrical Characteristics:** ( $T_A = +25^\circ C$ ,  $V_{CC} = 5V$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Circuit Current	$I_1$		10	–	24	mA
Channel I Gain	$G_{3-9}$	$f = 1MHz, 0.5mV_{P-P}$	52.5	–	62.5	dB
Channel II Gain	$G_{5-9}$	$f = 1MHz, 0.5mV_{P-P}$	52.5	–	62.5	dB
AGC Output Amplitude	$v_{12}$	$f = 4MHz, 0.3mV_{P-P}$	154	–	286	$mV_{P-P}$
AGC Control Sensitivity	$\Delta v_{20}$	$f = 4MHz, 0.3mV_{P-P}$	–	–	3	dB
PG Switch Changeover Sensitivity	$S_8$	$f = 1MHz, 0.5mV_{P-P}$	–	–	3.5	V
Noise Voltage Referred to Input (I)	$V_{ni1}$	1MHz BFP	–	–	1	$\mu V_{rms}$
Noise Voltage Referred to Input (II)	$V_{ni2}$	1MHz BFP	–	–	1	$\mu V_{rms}$

Note 1. Operating Supply Voltage Range:  $V_{CC(opr)} = 4.5$  to  $5.5V$

### Pin Connection Diagram

