ELECTRONICS, INC.
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NTE1466
Integrated Circuit
Preamp W/ALC Transistors

Features:

- Pre–Amplifier (Recording or Playback) with ALC Transistors for Tape Recorder
- Low Noise: V_{NI} = 1.3μV_{rms} (Typ)
- Wide ALC Range
- Operates from a Wide Range of Power Supplies: V_{CC}opr = 3V to 15V

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

Supply Voltage, V_{CC} 15V
Power Dissipation, P_D 200mW
Derate Above 25°C . . . . . 2mW/°C
Operating Temperature Range, T_{opr} . . . . . –25° to +75°C
Storage Temperature Range, T_{stg} . . . . . –55° to +125°C

Electrical Characteristics: (V_{CC} = 5V, T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Supply Current	I_{CC}	V_{IN} = 0, ALC off	–	1.3	1.75	mA
Voltage Gain (Open Loop)	G_{VO}	V_{IN} = –80dBm f = 1kHz	67	69	–	dB
Voltage Gain (Closed Loop)	G_V	V_{OUT} = 0.7V_{rms} f = 1kHz, Note 1	33	35	37	dB
Maximum Output Voltage	V_{OM}	f = 1kHz (below), THD = 1% Max	0.7	0.9	–	V_{rms}
Equivalent Input Noise Voltage	V_{NI}	R_g = 2.2kΩ, NAB (Compensated), 1kHz Gain Converted with G_V (1kHz)	–	1.3	2.5	μV_{rms}
Input Resistance	R_{IN}	f = 1kHz	–	150	–	kΩ
Saturation Voltage, Q_5	$V_{6(ON)}$		–	60	100	mV

Note 1. In regard to the voltage gain (closed loop voltage) value, it is possible to be classified.

Pin Connection Diagram
(Front View)