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## NTE1106 Integrated Circuit FM Stereo Demodulator

**Features:**

- Operates from a Wide Range of Power ( $V_{opr} = 4V$  to  $12V$ )
- Low Noise Dissipation
- Automatic Stereo Switching
- Includes Driver for Stereo-Lamp Indicator

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

Power Supply Voltage (Terminal 14), $V_{CC}$ .....	12V
Lamp Indication Current, $I_L$ .....	40mA
Power Dissipation, $P_D$ .....	500mW
Operating Temperature Range, $T_{opr}$ .....	-15 to $+75^\circ C$
Storage Temperature Range, $T_{stg}$ .....	-55 to $+125^\circ C$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Impedance	$R_{IN}$	$f = 20Hz$	-	20	-	k $\Omega$
Stereo Channel Separation $f = 100Hz$ <hr/> $f = 1kHz$ <hr/> $f = 10kHz$		Input Composite Signal = $100mV_{rms}$ (Pilot Lamp Signal 10%) $V_{CC} = 12V$	-	40	-	dB
			-	45	-	dB
			-	40	-	dB
Output Level Difference		Monaural Input $V_{CC} = 12V$	-	0.5	-	dB
Frequency Rejection	$SCA_{rej}$	$f = 19kHz$	-	30	-	dB
		$f = 39kHz$	-	25	-	dB
Lamp Indicator (Note 1) ON - 19kHz <hr/> OFF - 19kHz		4 GND 2k $\Omega$	-	5	10	$mV_{rms}$
			1	5	-	$mV_{rms}$
Audio Muting		Muting ON Voltage	0.6	0.75	-	V
		Muting OFF Voltage	-	1.0	1.3	V
Power Dissipation	$P_D$	Including Lamp Current	-	80	-	mW
		Reject Lamp Current	-	35	-	mW

Note 1. Connect at 2k $\Omega$  resistor between terminal 4 and GND, Lamp (ON) 19kHz Input Level, Lamp (OFF) 19kHz Input Level.

**Pin Connection Diagram**  
(Front View)

