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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)

