

The NJM2127 is a dual audio filter amplifier for digital audio. It includes two-channel differential input amplifier , capacitors , and resistors for Low Pass Filter. It also includes standby function which applies to low consumption power design.

It is suitable for CD , CD-ROM , DVD , and any other digital audio equipments.

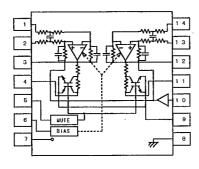
FEATURES

JRC

- Single Supply
- $(V^+=4.5 \sim 5.5V)$ • Operating Voltage
- Internal Differential Input Amplifier (Two channels)
- Internal C and R for LPF
- Standby Function
- Mute Function
- High S/N Retio
- Bipolar Technology
- Package Outline

(95dB typ.) DIP14, DMP14, SSOP14

PIN CONFIGURATION



NJM21	27D
NJM21	27M
NJM21	27V

PIN FUNCTION

1:1N-1	8 : GND			
2:1N+1	9:REF2			
3:0UT1	10:REF1			
4:MUTE1	11:MUTE	2		
5:MUTE	12:0UT2			
6:STANDBY	13:IN+2			
7:V*	14:IN-2			

ABSOLUTE MAXIMUM RATINGS PARAMETER SYMBOL. RATINGS UNIT V+ 12 ٧ Supply Voltage (DIP8) 700 (DMP8) 300 m₩ **Power Dissipation** Pρ (SSOP8) 300 Operating Temperature Range Topr -25~+75 °C °C Storage Temperature Range Totg -40~+125

PACKAGE OUTLINE



NJM2127D

NJM2127M



NJM2127V

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(Ta=25°C)

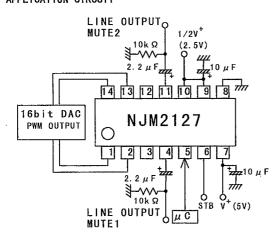
ELECTRICAL CHARACTERISTICS

(V⁺=5V, f=1kHz, Vi=1. 5Vrms, Vref1=2. 5V, Vref2=2. 5V, RL=10k Ω , Ta=25°C)

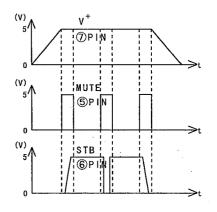
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Operating Current	lcc1			4. 0	6.0	mA
Standby Operating Current	lcc2	6pin=GND	_	1	_	mA
Voltage Gain1	Gv1		-7.6	-6.6	-5.6	dB
Voltage gain2	∆ Gv2	f=20kHz, Difference from Gv1	-1.8	-0.4	0.6	dB
Voltage Gain3	Gv3	f=100kHz	-	-12.6	—	dB
Channel Balance	∆ Gv1	at Gv1	-0.5	0	0.5	dB
Total Harmonic Distortion	THD	Vo=0. 2Vrms		0. 015	0. 05	%
S/N Ratio	s/N	CCIR/ARM,Rg=0Ω Vi=1.5Vrms reference	89	95		dB
Channel Separation	CS	Measuring CH:no signal,CCIR/ARM Other CH:Vi=1.5Vrms	74	80	_	dB
Mute Attenuation	ATT	Vi=1.5Vrms, 5pin=V ⁺ , 6pin=GND	70	90	_	dB
Output Offset Voltage Drift	Voff	at Mute ON/OFF	-10	0	10	mV
Mute Voltage	Vmute	5pin, at Mute	3. 5	-	_	v
Standby Voltage	Vstb	6pin, at Standby	-	—	1. 5	v

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APPLICATION CIRCUIT



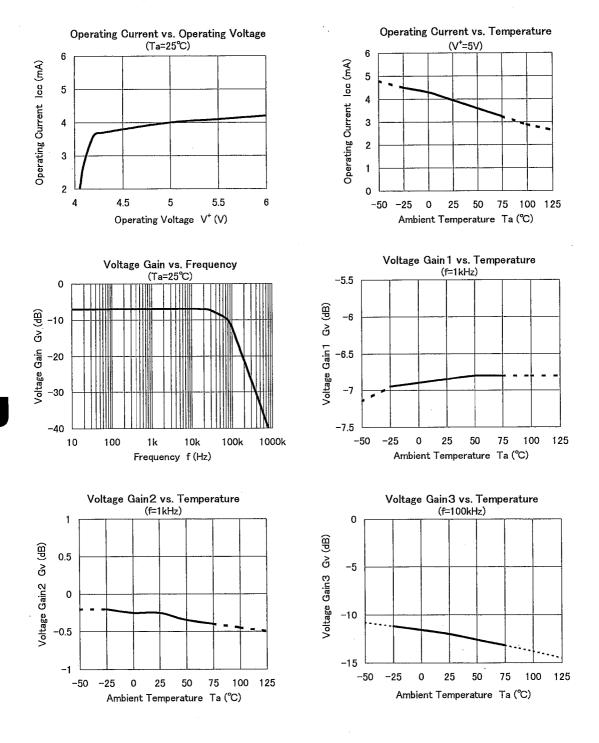
POWER ON TIMING CHART



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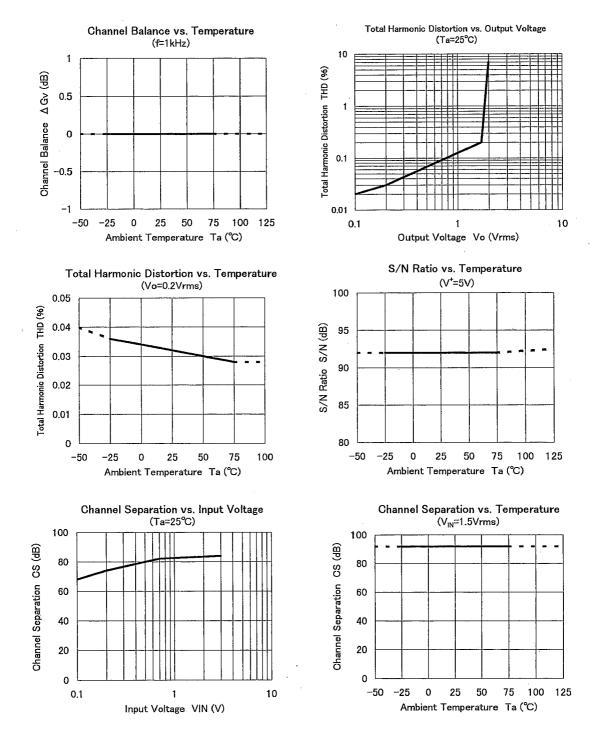
TYPICAL CHARACTERISTICS



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TYPICAL CHARACTERISTICS

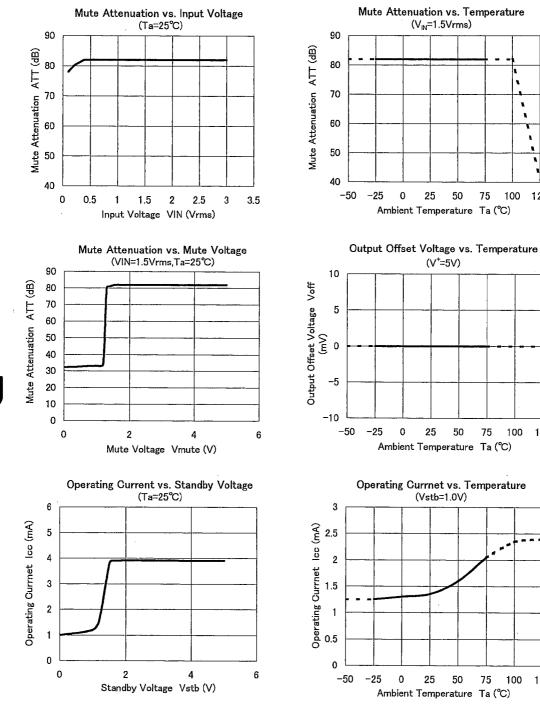


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TYPICAL CHARACTERISTICS



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