

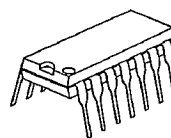
AUDIO FILTER AMPLIFIER

■ GENERAL DESCRIPTION

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.

■ PACKAGE OUTLINE



NJM2127D



NJM2127M

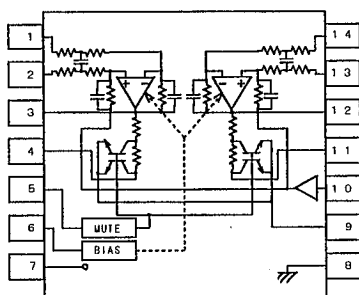


NJM2127V

■ FEATURES

- Single Supply
- Operating Voltage (V⁺=4.5~5.5V)
- Internal Differential Input Amplifier (Two channels)
- Internal C and R for LPF
- Standby Function
- Mute Function
- High S/N Ratio (95dB typ.)
- Bipolar Technology
- Package Outline DIP14, DMP14, SSOP14

■ PIN CONFIGURATION



NJM2127D
NJM2127M
NJM2127V

PIN FUNCTION

- 1: IN-1 8: GND
- 2: IN+1 9: REF2
- 3: OUT1 10: REF1
- 4: MUTE1 11: MUTE 2
- 5: MUTE 12: OUT2
- 6: STANDBY 13: IN+2
- 7: V⁺ 14: IN-2

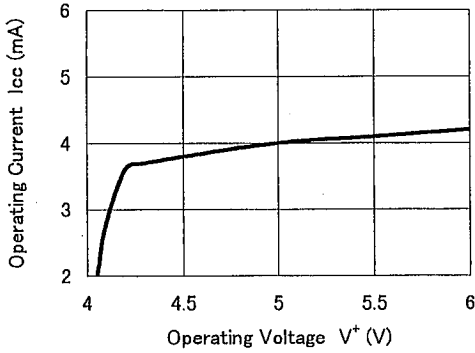
■ ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

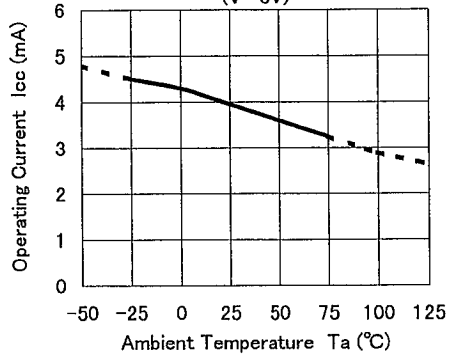
PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V ⁺	12	V
Power Dissipation	P _D	(DIP8) 700 (DMP8) 300 (SSOP8) 300	mW
Operating Temperature Range	T _{OPR}	-25~+75	°C
Storage Temperature Range	T _{STR}	-40~+125	°C

TYPICAL CHARACTERISTICS

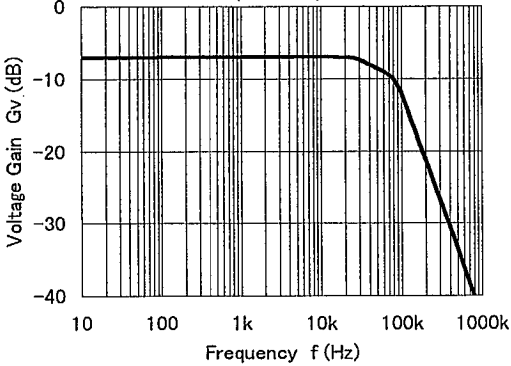
Operating Current vs. Operating Voltage
($T_a=25^\circ\text{C}$)



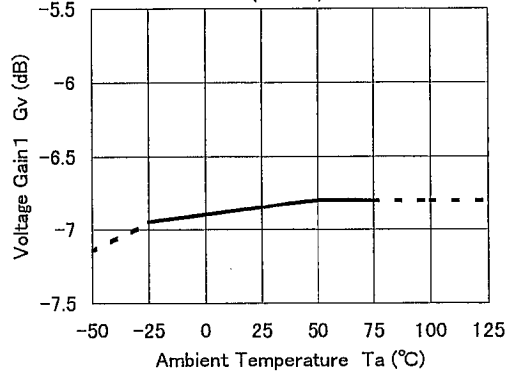
Operating Current vs. Temperature
($V^*=5\text{V}$)



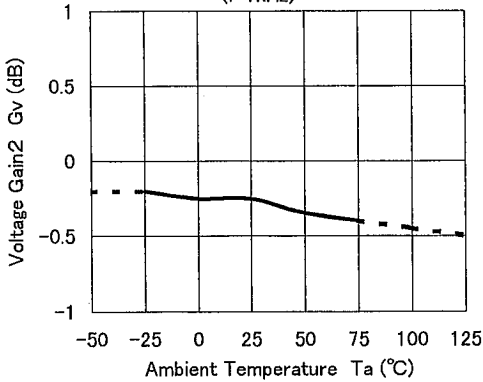
Voltage Gain vs. Frequency
($T_a=25^\circ\text{C}$)



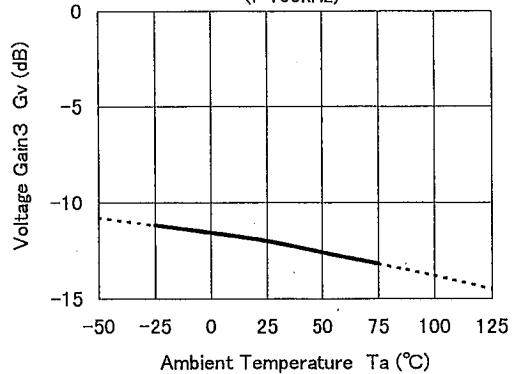
Voltage Gain1 vs. Temperature
($f=1\text{kHz}$)



Voltage Gain2 vs. Temperature
($f=1\text{kHz}$)



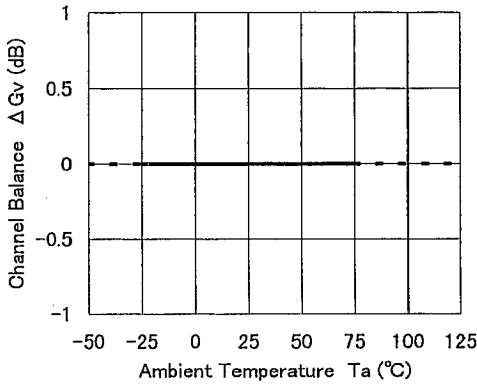
Voltage Gain3 vs. Temperature
($f=100\text{kHz}$)



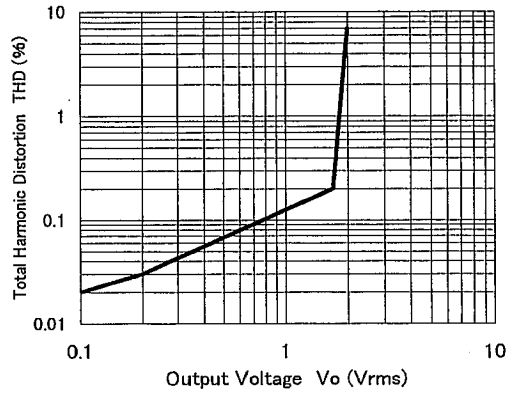
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■ TYPICAL CHARACTERISTICS

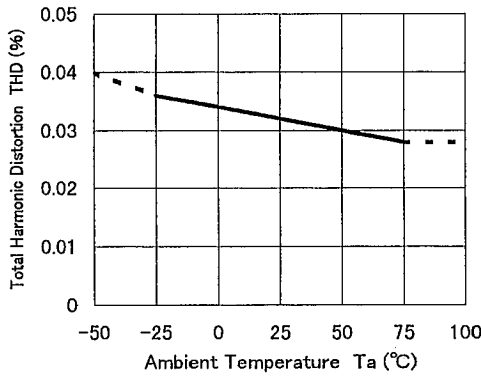
Channel Balance vs. Temperature
($f=1\text{kHz}$)



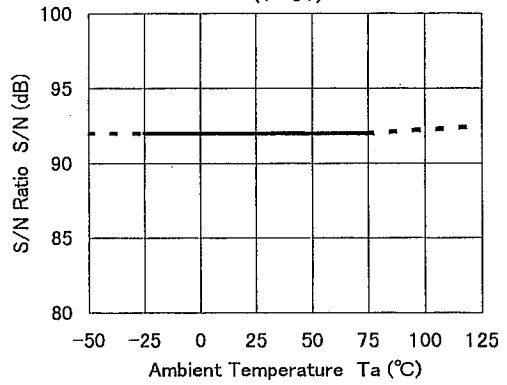
Total Harmonic Distortion vs. Output Voltage
($T_a=25^\circ\text{C}$)



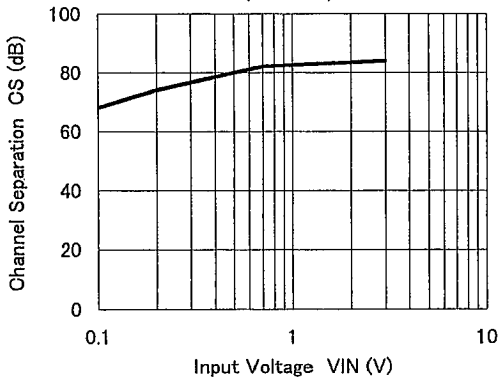
Total Harmonic Distortion vs. Temperature
($V_o=0.2\text{Vrms}$)



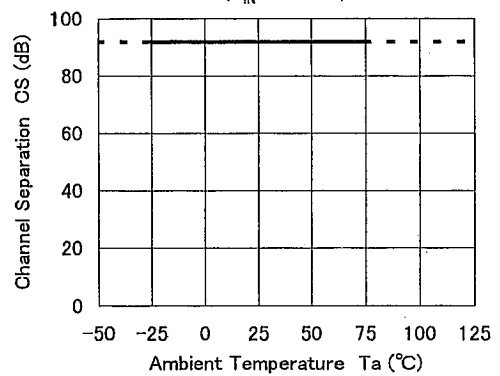
S/N Ratio vs. Temperature
($V^2=5\text{V}$)



Channel Separation vs. Input Voltage
($T_a=25^\circ\text{C}$)

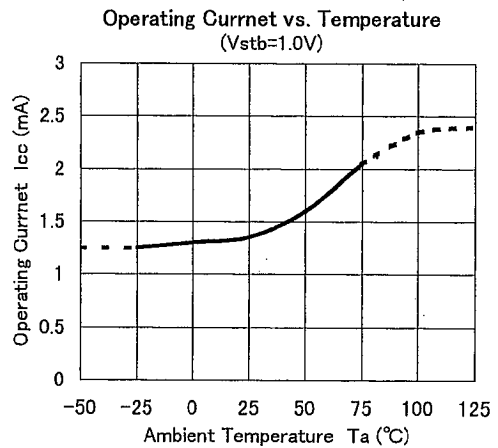
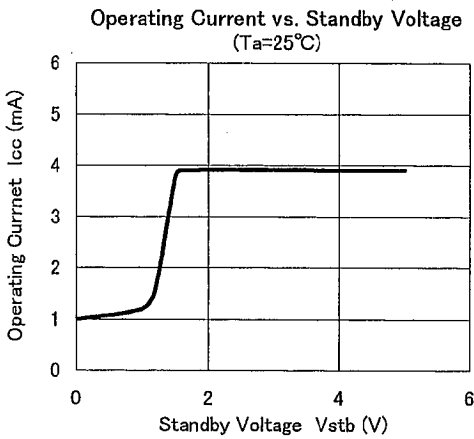
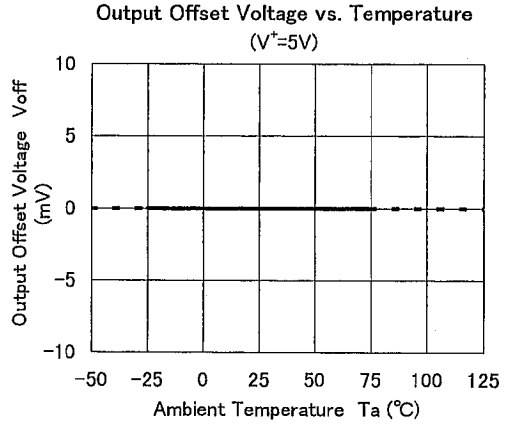
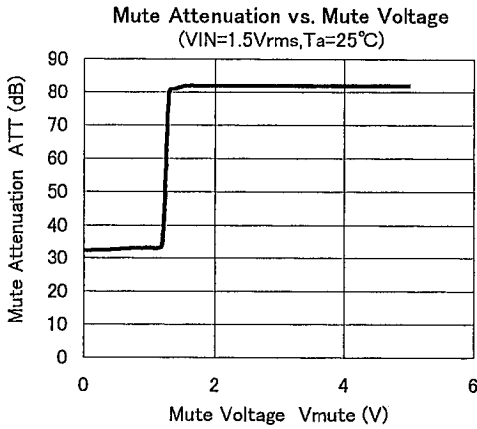
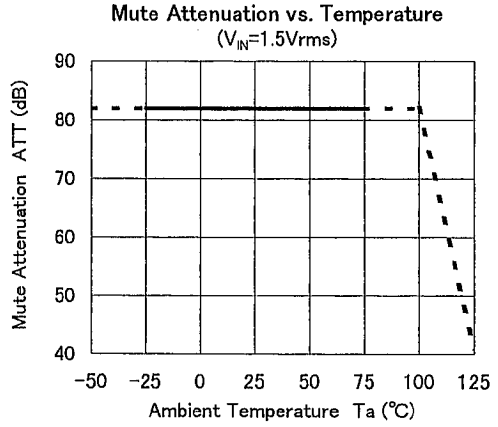
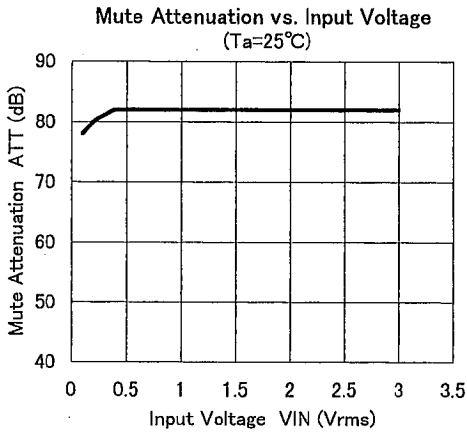


Channel Separation vs. Temperature
($V_{IN}=1.5\text{Vrms}$)



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TYPICAL CHARACTERISTICS



MEMO

[CAUTION]

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