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GENERAL PURPOSE QUAD OPERATIONAL AMPLIFIER

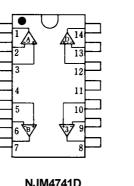
■ GENERAL DESCRIPTION

The NJM4741 consists of four independent high-gain operational amplifiers that are designed for high slew rate, wide band, and good noise characteristics.

■ FEATURES

- Operating Voltage
- Wide Band
- Slew Rate
- Low Input Noise Voltage
- Low Distortion
- Package Outline
- Bipolar Technology

■ PIN CONFIGURATION



(±4V~±20V)

(3.5MHz typ.)

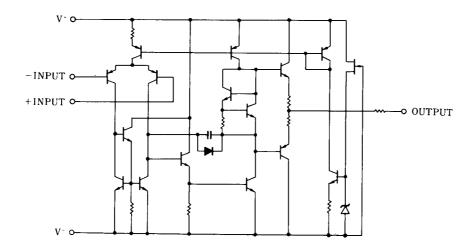
(1.6V/µs typ.)

(9nV/√Hz typ.)

(0.0005% typ.) DIP14,DMP14

> NJM4741D NJM4741M

EQUIVALENT CIRCUIT (1/4 Shown)



PACKAGE OUTLINE

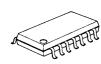
PIN FUNCTION 1.A OUTPUT 2.A –INPUT 3.A +INPUT 4.V⁺ 5.B +INPUT 6.B –INPUT 7.B OUTPUT

8.C OUTPUT 9.C -INPUT 10.C +INPUT 11. V 12.D +INPUT

13.D -INPUT

14.D OUTPUT





NJM4741D

NJM4741M

■ ABSOLUTE MAXIMUM RATINGS

			(Ta=25°C)
PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V ⁺ ∕√	± 20	V
Differential Input Voltage	V _{ID}	± 30	V
Input Voltage	VIC	±15 (note)	V
Power Dissipation	PD	(DIP14) 500 (DMP14) 300	mW
Operating Temperature Range	T _{opr}	-40~+85	°C
Storage Temperature Range	T _{stg}	-40~+125	С°

(note) When the supply voltage is less than ±15V, the absolute maximum input voltage is equal to the supply voltage.

■ ELECTRICAL CHARACTERISTICS

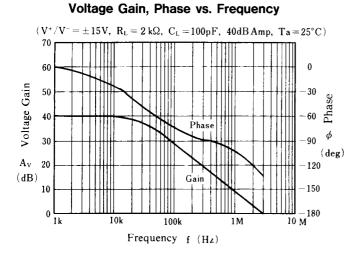
				(12-250, 0.00)		
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Input Offset Voltage	VIO	R _S ≤100Ω	-	1.0	5.0	mV
Input Offset Current	lio		-	5	50	nA
Input Bias Current	IB		-	60	300	nA
Large Signal Voltage Gain	Av	R _L ≥2kΩ,V _O =±10V	88	110	-	dB
Operating Current	Icc		-	5	7	mA
Common Mode Rejection Ratio	CMR		80	120	-	dB
Supply Voltage Rejection Ratio	SVR		80	120	-	dB
Maximum Output Voltage 1	V _{OM1}	R _L ≥10kΩ	± 12	± 13.7	-	V
Maximum Output Voltage 2	V _{OM2}	R∟≥2kΩ	± 10	± 12.5	-	V
Input Common Mode Voltage Range	VICM		± 12	± 14	-	V
Slew Rate	SR	A _v =1	-	1.6	-	V/µs
Equivalent Input Noise Voltage	en	f=1kHz	-	9	-	nV/√Hz
Channel Separation	CS	f=10kHz,Input Referred	-	108	-	dB

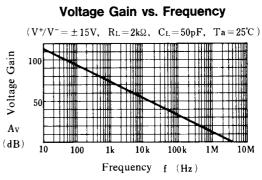
(note) The application that leads to the extreme difference of power dissipation between channels may cause the mutual interference by the temperature gradient on the chip.

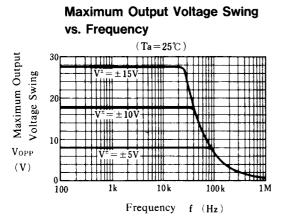
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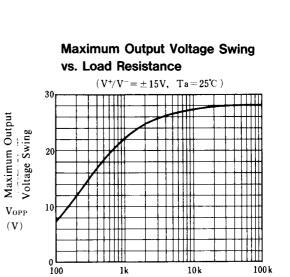
(Ta=25°C.V⁺/V⁻=±15V)

TYPICAL CHARACTERISTICS







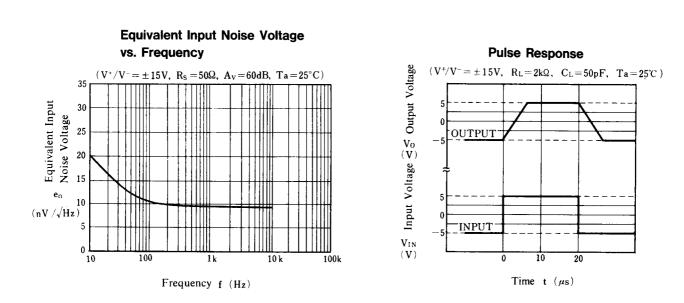


Load Resistance $R_L(\Omega)$

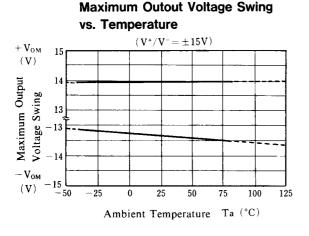
10 k

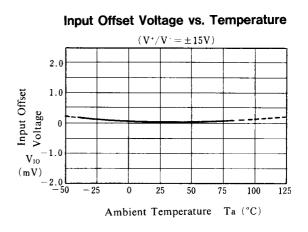
100k

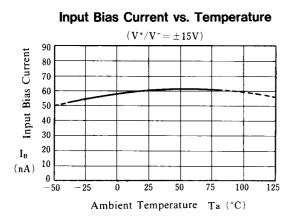
1k



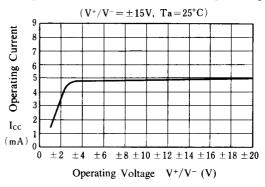
■ TYPICAL CHARACTERISTICS

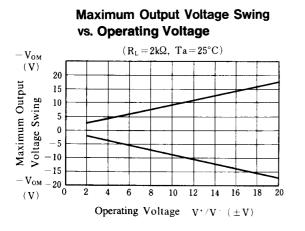




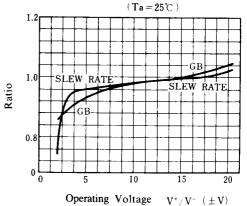


Operating Current vs. Operating Voltage



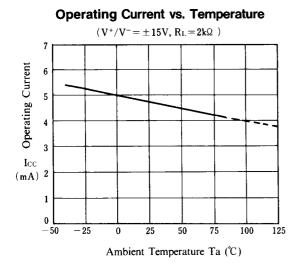


Slew Rate, Unity Gain Bandwidth vs. Operating Voltage



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■ TYPICAL CHARACTERISTICS



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