imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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packing densities.

JRC

- FEATURES
- Operating Voltage
- Wide Gain Bandwidth Product

■ GENERAL DESCRIPTION

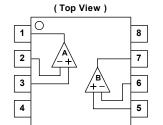
The NJM4560 integrated circuit is a high-gain, wide bandwidth, dual operational amplifier capable of driving 20V peak-to-peak into 400 Ω loads. The NJM4560 combines many of the features of the NJM4558 as well as providing the capability of wider bandwidth, and higher slew rate make the

NJM4560 ideal for active filters, data and telecommunications,

and many instrumentation applications. The availability of the NJM4560 in the surface mounted micro-package allows the NJM4560 to be used in critical applications requiring very high

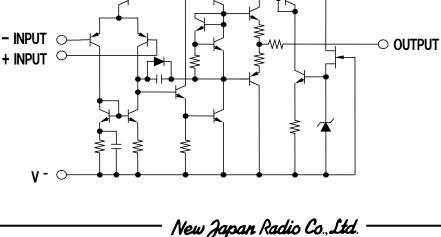
- Slew Rate
- Package Outline
- Bipolar Technology

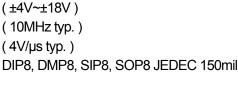
■ PIN CONFIGURATION



NJM4560D, NJM4560M, NJM4560E

■ EQUIVALENT CIRCUIT (1/2 Shown)





■ PACKAGE OUTLINE



NJM4560D (DIP8) NJM4560M

(DMP8)

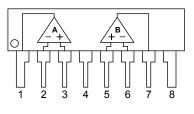




NJM4560E (SOP8) NJM4560L (SIP8)

PIN FUNCTION 1. A OUTPUT 2. A - INPUT 3. A +INPUT 4. V⁻ 5. B +INPUT 6. B - INPUT 7. B OUTPUT 8. V⁺

NJM4560



NJM4560L

■ ABSOLUTE MAXIMUM RATINGS

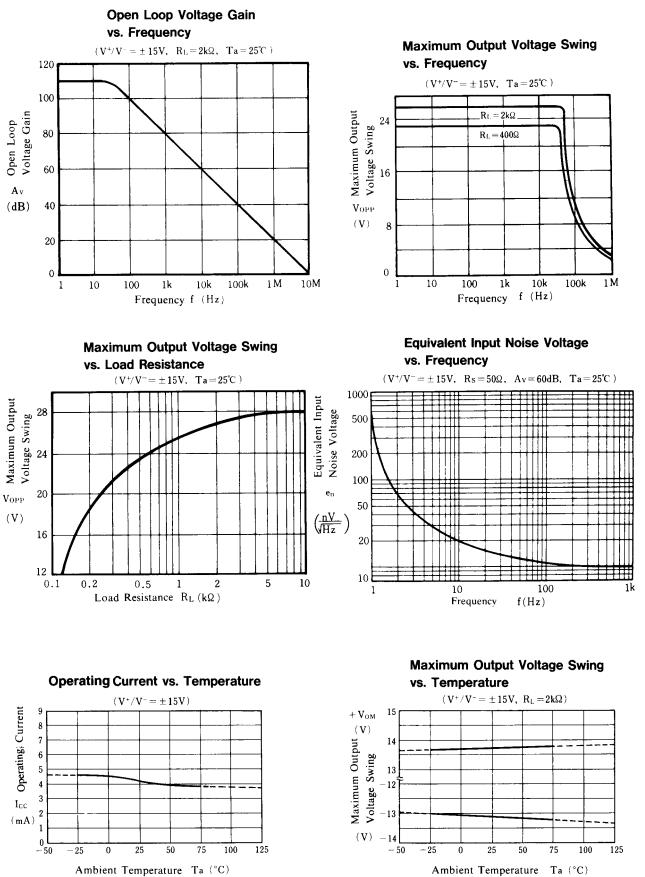
			(Ta=25°C)
PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V ⁺ ∧∕-	± 18	V
Differential Input Voltage	VID	± 30	V
Input Voltage	VIC	± 15 (note)	V
Power Dissipation	PD	(DIP8) 500 (DMP8) 300 (SOP8) 300 (SIP8) 800	mW
Operating Temperature Range	T _{opr}	-40~+85	°C
Storage Temperature Range	T _{stg}	-40~+125	С°

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

■ ELECTRICAL CHARACTERISTICS

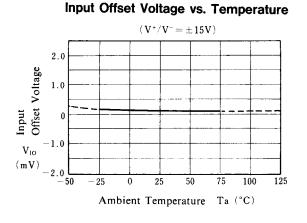
				(Ta=25°C,V⁺/√=±15\			
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Input Offset Voltage	V _{IO}	Rs≤10kΩ	-	0.5	6	mV	
Input Offset Current	lıo		-	5	200	nA	
Input Bias Current	I _B		-	40	500	nA	
Input Resistance	R _{IN}		0.3	5	-	MΩ	
Large Signal Voltage Gain	Av	R _L ≥2kΩ,V _O =±10V	86	100	-	dB	
Maximum Output Voltage Swing 1	V _{OM1}	R _L ≥2kΩ	± 12	± 14	-	V	
Maximum Output Voltage Swing 2	V _{OM2}	I _O =25mA	± 10	± 11.5	-	V	
Input Common Mode Voltage Range	VICM		± 12	± 14	-	V	
Common Mode Rejection Ratio	CMR	R _s ≤10kΩ	70	90	-	dB	
Supply Voltage Rejection Ratio	SVR	R _s ≤10kΩ	76.5	90	-	dB	
Operating Current	Icc	-	-	4.3	5.7	mA	
Slew Rate	SR		-	4	-	V/µs	
Gain Bandwidth Product	GB		-	10	-	MHz	
Equivalent Input Noise Voltage	V _{NI}	RIAA,R _S =2kΩ,30kHz LPF	-	1.2	-	μVrms	

■ TYPICAL CHARACTERISTICS

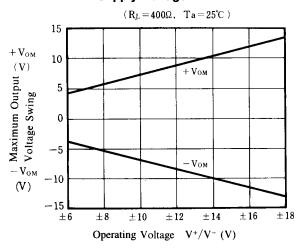


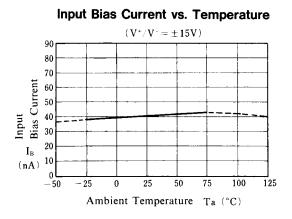
New Japan Radio Co., Ltd.

TYPICAL CHARACTERISTICS

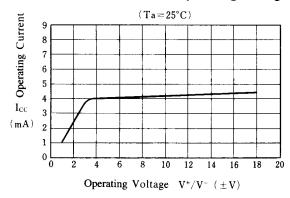


Maximum Output Voltage Swing vs. Supply Voltage





Operating Current vs. Operating Voltage



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