

ULTRA WIDE BAND, HIGH SLUE RATE DUAL OPERATIONAL AMPLIFIER

GENERAL DESCRIPTION

查询NJM2137供应商

The NJM2137 is an ultra wide band, high slew rate dual operational amplifier operated from low voltage ($\pm 1.35V$).

It can apply to active filter, high speed analog and digital signal processor, line driver, HDTV, industrial measurement equipment and others.

It can also apply to portable communication items because of low operating voltage and low operating current.

FEATURES

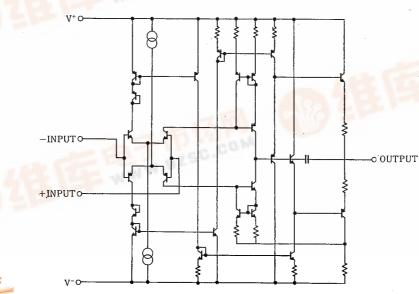
JRC

- Operating Voltage
- Ultra Wide Band
- High Slew Rate
- Low Operating Current
- Bipolar Technology
- Package Outline
- (45V/ μs typ.) (1.14mA typ.) SSOP8, DMP8

 $(\pm 1.35V \sim \pm 6V)$

(200MHz typ.)

- PIN CONFIGURATION
- PIN FUNCTION 1 A OUTPUT 2 A - INPUT 3 A + INPUT 3 A + INPUT 4 V⁻ 5 B + INPUT 6 B - INPUT 7 B OUTPUT 8 V⁺ NJM2137M NJM2137V
- EQUIVALENT CIRCUIT (1/2 Shown)





PACKAGE OUTLINE





NJM2137V

N.IM2137 M

ABSOLUTE MAXIMUM RATINGS

(Ta=25℃)

PARAMETER	SYMBOL	RATINGS	UNIT V	
Supply Voltage	V ⁺ /V ⁻	±6.75		
Differential Input Voltage	V _{ID}	±3	v	
Power Dissipation	PD	(SSOP-8) 250 (DMP-8) 300	mV	
Operating Temperature Range	T _{opr}	-40~+85	Ĉ	
Storage Temperature Range	T _{stg}	-50~+125	C	

ELECTRICAL CHARACTERISTICS

(V⁺/V[−]=±2.5V, Ta=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V*/V-		±1.35	±2.50	±6.00	v
Input Offset Voltage	VIO	R _s =0Ω	-	1.0	5.0	mV
Input Bias Current	IB		-	0.5	2.0	μA
Input Offset Current	I _{IO}		-	20	200	nA
Large Signal Voltage Gain	Av	$R_L \ge 10 k \Omega$	65	75	-	dB
Input Common Mode Voltage Range	17		1.2	1.5	-	- v
	V _{ICM}		-1.2	-1.5	_	
Common Mode Rejection Ratio	CMR	$-1V \leq V_{cm} \leq +1V$	45	60	-	dB
Supply Voltage Rejection Ratio	+SVR		50	60	-	dB
	-SVR		70	80	_	
Maximum Output Voltage Swing		$R_L=1k\Omega$	1.1	1.4	-	v
	V _{OM}		-0.9	-1.2	-	
Opreating Current	I _{CC}	R _L =∞(all Amp.)	-	1.14	1.5	mA
Slew Rate	SR	A _V =0dB	-	45		V/ μs
Gain Bandwidth Product	GB	60dB · 500kHz	100	200	_	MHz
Phase Margin	фм	40dB	-	25	-	deg
Unity Gain Bandwidth	fT	40dB	-	40	-	MHz

MEMO

[CAUTION] The specifications on this databook are only given for information , without any guarantee as regards either mistakes or omissions. The application circuits in this databook are described only to show representative usages of the product and not intended for the guarantee or permission of any right including the industrial rights.

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