查询M51134FP供应商

捷多邦,专业PCB预算了1,44分对P/FP

SUB-HORMONIZER FOR BASS EMPHASIS

DESCRIPTION

The M51134 is an IC developed for audio-visual applications to emphasize heavy bass.

The IC is used to produce sound effects at the stage before power amplifier.

WWW.DZ

The M51134 offers capability of converting desired frequency into its half by setting a constant of external filter. The built-in VCA is also capable of level setting controlled by an externals source.

The IC is also suitable for 3-D systems.

FEATURES

- ■Input sensitivity variable by input sensitivity adjust pin
- Built-in 5V regulator for single power supply
- Envelope detector facilitates level setting matching input level
- Capability of controlling VCA from external source facilitates level settings at will
- Maximum input voltage······3Vrms
- Low noise ----- 92dBv
- Built-in OP-amp for low pass filter
- Built-in voltage control amplifier (VCA)
- Built-in Flip-Flop circuit for 1/2 frequency divider

RECOMMENDED OPERATING CONDITIONS

Supply voltage range Vcc1 = 7 to 15V, Vcc2 = 4.5 to 5.5V Rated supply voltage Vcc1 = 12V, Vcc2 = 5V



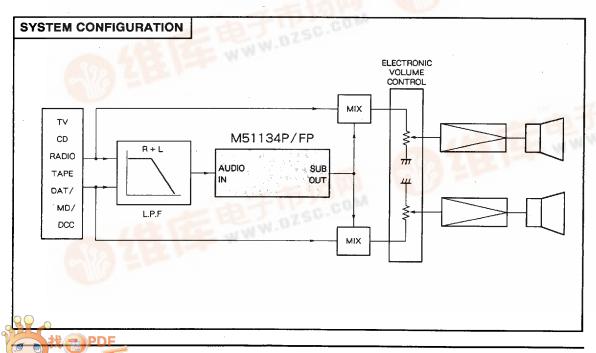
Outline 20P4(P)

2.54mm pitch 300mil DIP (6.3mm × 24.0mm × 3.3mm)



Outline 20P2N-A(FP)

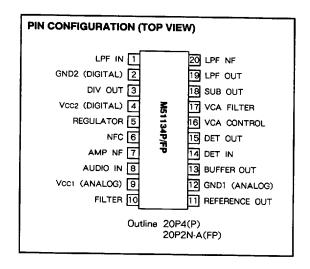
1.27mm pitch 300mil SOP (5.3mm × 12.6mm × 1.8mm)

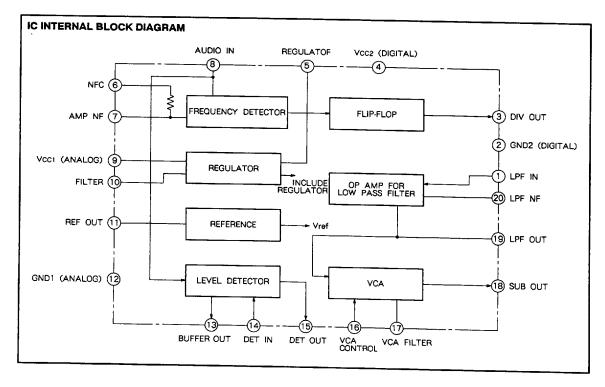


MITSUBISHI SOUND PROCESSOR ICS

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ABSOLUTE MAXIMUM RATINGS (Ta = $25\,\%$, unless otherwise noted)

Symbol	Parameter	Ratings	Unit
Vccı	Supply voltage (analog)	+ 16	V
Vcc2	Supply voltage (digital)	+ 5.5	V
Pa	Power dissipation	800(P)/500(FP)	mW
Ke	Thermal derating	8.0(P)/5.0(FP)	mW/℃
Торг	Operating temperature	-20 to +75	೪
Tstg	Storage temperature	-40 to +125	୯

ELECTRICAL CHARACTERISTICS (Ta = 25 °C, Vcc1 = 12V, Vcc2 = 5V, f = 100Hz, unless otherwise noted)

Symbol		-	ľ	Limits		
	Parameter	Test conditions	Min	Тур	Max	Unit
lcc1	Quiescent circuit current	Quiescence	-	12	22	mΑ
lcc2	Quiescent circuit current	Quiescence		0.95	2.5	mA
Vimn	Minimum detect input voltage			- 55	- 40	dBV
Vore	Response output voltage range		35	47		dB
THD	Total harmonic distortion	Vi = - 10dBV	_	1.3	2.5	%
Trsp	Response time		_	2.5	3.5	mS
Vimax	Maximum input voltage	THD = 2.0 %	+ 4	+ 10		dB∨
Vomax	Maximum output voltage	THD = 2.0 %	1.8	2.5		Vrms
No	Output noise voltage	DIN AUDIO		- 93	- 83	dBV

TEST METHOD

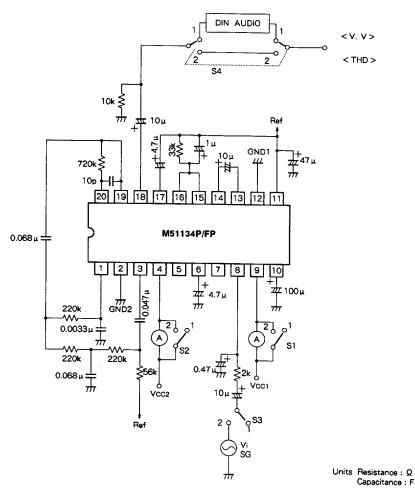
Symbol	SW1	SW2	SW3	SW4	Conditions
lcc1	1	2	1	2	Measure circuit current at pin (9) for quiescent state.
lcc2	2	1	1	2	Measure circuit current at pin 4 for quiescent state.
Vimn	2	2	2	2	Measure minimum input voltage at pin 3 output.
Vore	2	2	2	2	Measure difference in output voltage at Vomax and Vimin.
THD	2	2	2	2	Measure distortion with f = 100Hz, Vi = - 10dBV
Trsp	2	2	2	2	Measure delay time between input signal and output signal.
Vimax	2	2	2	2	Measure output voltage with THD = 2%
Vomax	2	2	2	2	Measure input voltage with THD = 2%
Νo	2	2	2	1	DIN AUDIO

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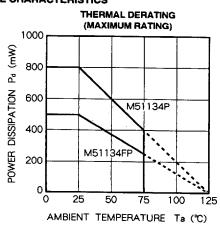
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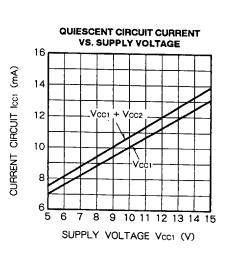
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TEST CIRCUIT



TYPICAL CHARACTERISTICS

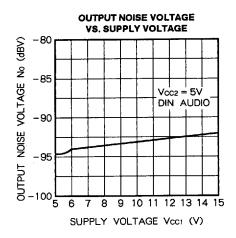


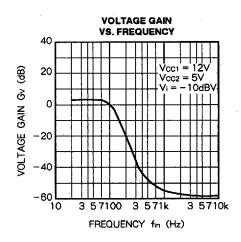


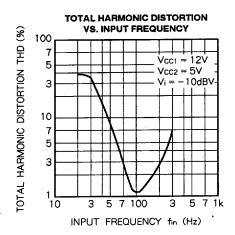
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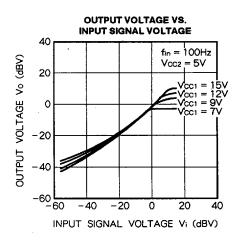
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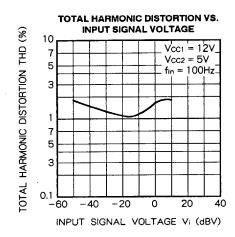
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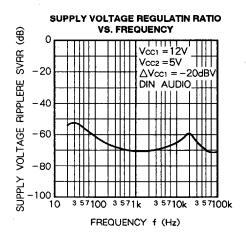










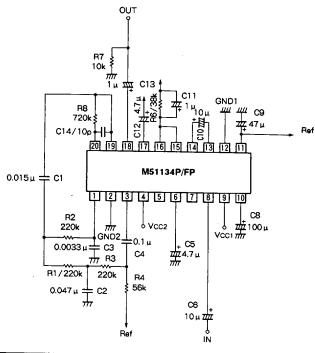


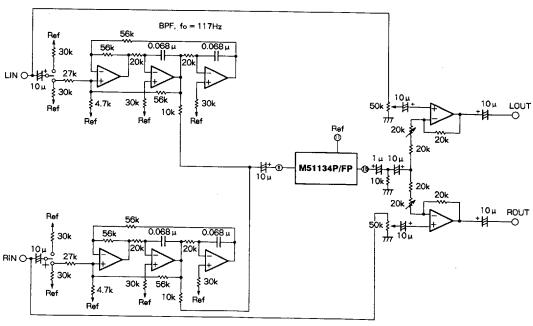
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APPLICATION EXAMPLE





It's neccessary to chech input BPF and Built-in LPF cut off frequency at the system.

Units Resistance : Q Capasitance : F

