

## **BLOCK DIAGRAM**

Notice ; This is not a final specification. some parametric limits are subject to change.

**MITSUBISHI SOUND PROCESSOR** 

M62455P/FP

**SRS 3D SOUND PROCESSOR** 

(2/12)

Notice ; This is not a final specification. some parametric limits are subject to change.

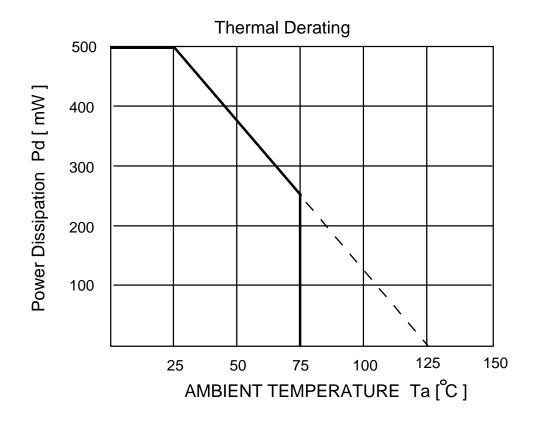
MITSUBISHI SOUND PROCESSOR

M62455P/FP

SRS 3D SOUND PROCESSOR

## ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply Voltage		13.0	V
Pd	Power Dissipation	Ta<25	500	mW
K <sub>θ</sub>	Thermal Derating	Ta>25	5	mW/°C
Topr	Operating Temperature		-20 ~ 75	°C
Tstg	Storage Temperature		-40 ~ 125	°C





MITSUBISHI SOUND PROCESSOR

M62455P/FP

SRS 3D SOUND PROCESSOR

Notice ; This is not a final specification change. Notice ; This is not a final specification change.

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
Vcc	Supply Voltage		4.5	9.0	12.0	V
Viн	High Level Input Voltage	Pin-1 (SRS on)	2.1	_	VDD	V
VIL	Low Level Input Voltage	Pin-1 (SRS off)	0	_	0.8	V

## ELECTRICAL CHARACTERISTICS

(1) Power Supply Characteristics

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
lcc	Circuit Current		_	10	20	mA

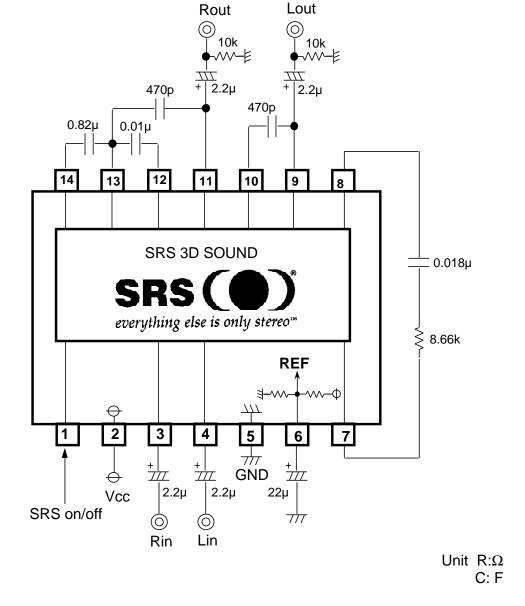
(2) -1 Input / Output Characteristics (Vcc=9V, Ta=25°C, Vi=500mVrms)

Symbol	Parameter	Conditions		Conditions	Limit			Unit
2,11001	raiancici	Input	Output		Min.	Typ.	Max.	Onic
Gv1	Input - Output Voltage Gain1	f=1kHz	RL=10KΩ	SRS off	-3	0	+3	dB
Gv2	Input - Output Voltage Gain2	f=1kHz	R∟=10KΩ	SRS on	4.0	7.0	10.0	dB
Gv3	Input - Output Voltage Gain3	f=100Hz	RL=10KΩ	SRS on	8.0	11.0	14.0	dB
Gv4	Input - Output Voltage Gain4	f=10KHz	RL=10KΩ	SRS on	7.0	10.0	13.0	dB
Vом	Maximum Output Voltage	f=1kHz	THD=1% IHF-A filter R∟=10KΩ	SRS on/off	1.8	2.2		Vrms
THD	Total Harmonic Distortion	f=1kHz Vi=-10dBv	DIN-A filter R∟=10KΩ	SRS off		0.01	0.05	%
VNO1	Output Noise Voltage1		IHF-A filter	SRS off		5	10	µVrms
VNO1	Output Noise Voltage2		IHF-A filter	SRS on		25	60	µVrms



(4/12)





## APPLICATION EXAMPLE

PRELIMINARY Notice ; This is not a final specification. Notice ; This is not a final specification. Notice ; This is not a final specification. some parametric limits are subject to change.

MITSUBISHI SOUND PROCESSOR

M62455P/FP

PRELIMINARY Notice : This is not a final specification. Notice : This is not a final specification. Some parametric limits are subject to change.

MITSUBISHI SOUND PROCESSOR

M62455P/FP SRS 3D SOUND PROCESSOR

Keep safety first in your circuit designs !

Mitsubishi Electric Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them.Trouble with semiconductors may lead to personal injury, fire or property damage. Remember to give due consideration to safety when making your circuit designs, in order to prevent fires from spreading, redundancy, malfunction or other mishap.

Notes regarding these materials

- These materials are intended as a reference to assist our customers in the selection of the Mitsubishi semiconductor product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Mitsubishi Electric Corporation or a third party.
- Mitsubishi Electric Corporation assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts or circuit application examples contained in these materials.
- If these products or technologies are subject to the Japanese export control restrictions, they must be exported under a license from the Japanese government and cannot be imported into a country other than the approved destination.

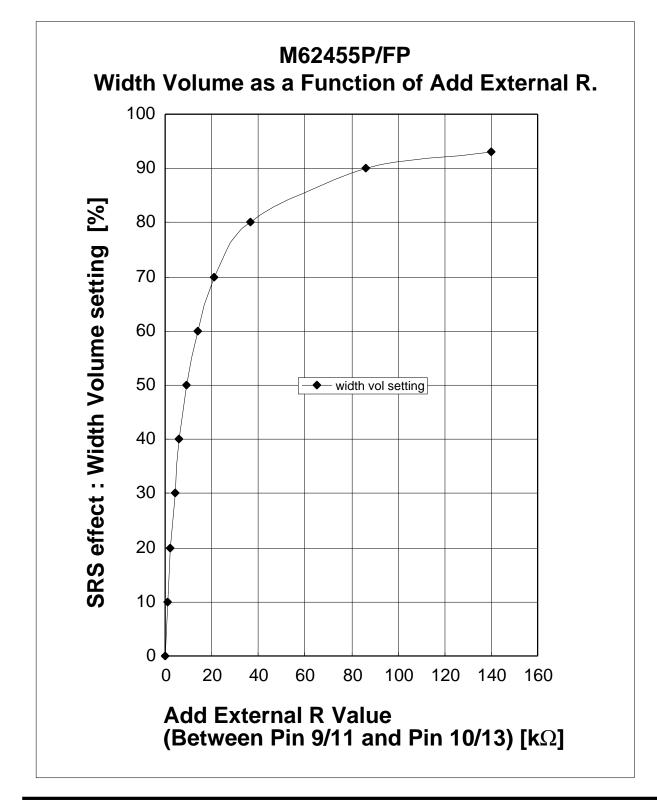
Any diversion or reexport contrary to the export control laws and regulations of Japan and/or the country of destination is prohibited.



PRELIMINARY Notice ; This is not a final specification. Notice ; This is not a final specification. Some parametric limits are subject to change.

MITSUBISHI SOUND PROCESSOR

M62455P/FP



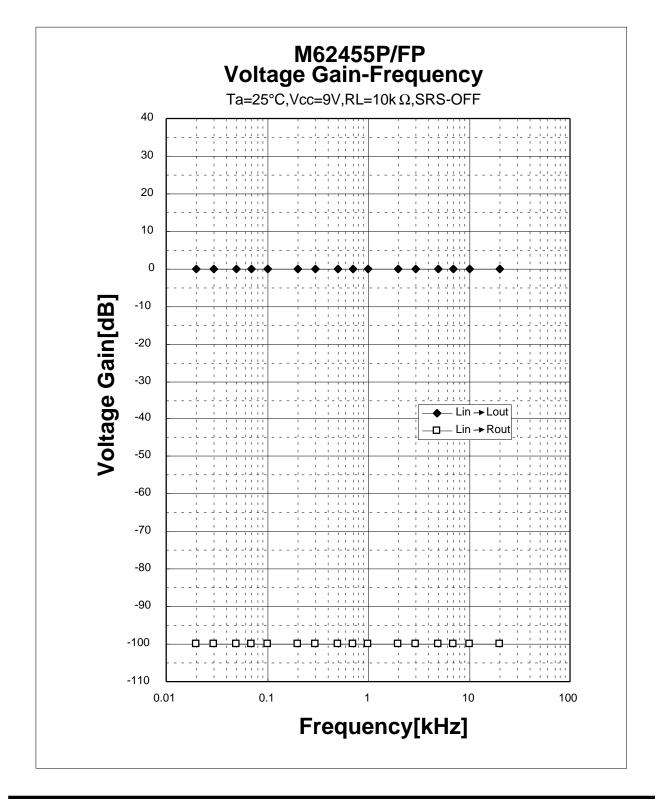


PRELIMINARY Notice ; This is not a final specification. Notice ; This is not a final specification. Some parametric limits are subject to change.

MITSUBISHI SOUND PROCESSOR

M62455P/FP

SRS 3D SOUND PROCESSOR



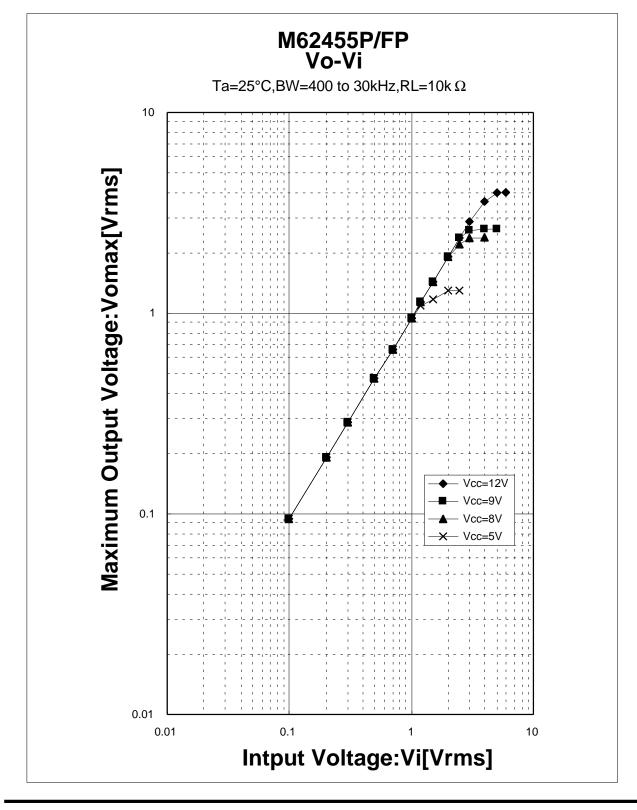


(8/12)

PRELIMINARY Notice ; This is not a final specification. Notice ; arametric limits are subject to change. some parametric limits are subject to change.

MITSUBISHI SOUND PROCESSOR

M62455P/FP

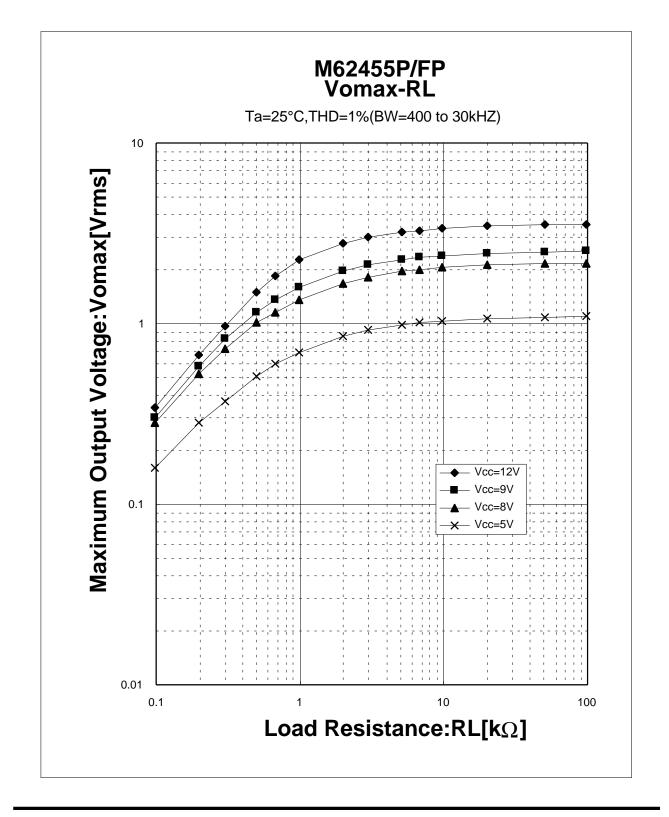




PRELIMINARY Notice : This is not a final specification. Notice : This is not a final specification. Notice : This is not a final specification. Some parametric limits are subject to change.

MITSUBISHI SOUND PROCESSOR

M62455P/FP

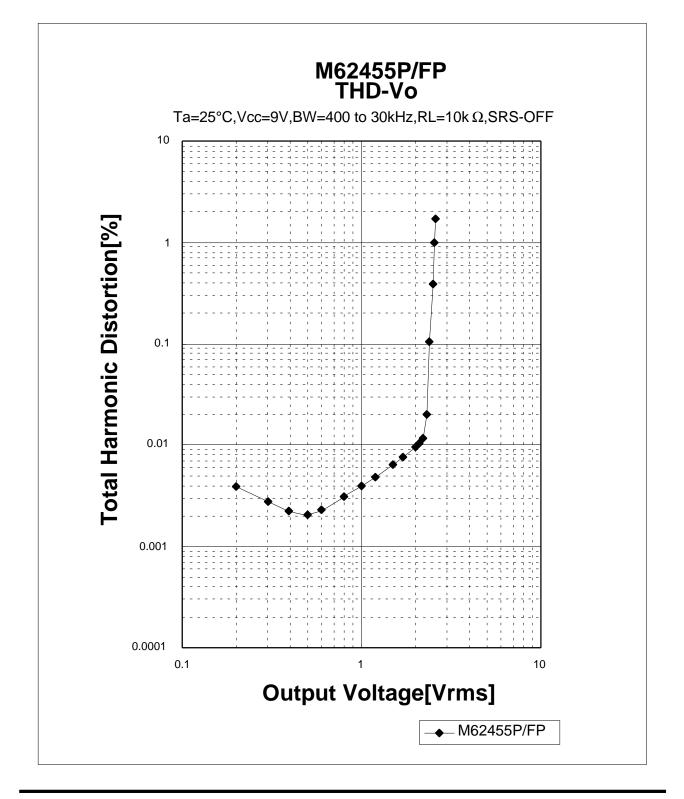




PRELIMINARY Notice ; This is not a final specification. Notice ; This is not a final specification. Notice ; This is not a final specification. Some parametric limits are subject to change.

MITSUBISHI SOUND PROCESSOR

M62455P/FP

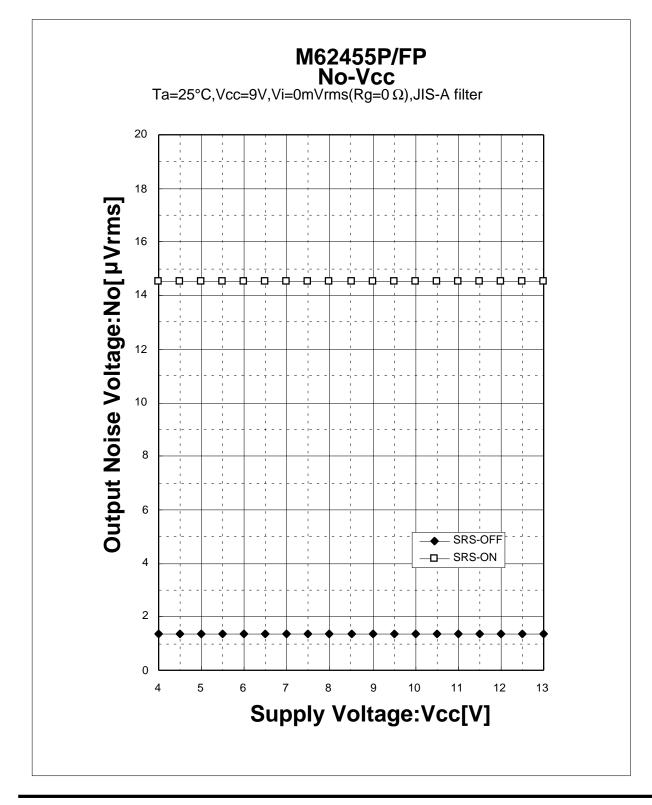




MITSUBISHI SOUND PROCESSOR

M62455P/FP

**SRS 3D SOUND PROCESSOR** 



Notice ; This is not a final specification. Some parametric limits are subject to change.

PRELIMINARY



Downloaded from Elcodis.com electronic components distributor