查询m5226供应商

5-ELEMENT GRAPHIC EQUALIZER IC

DESCRIPTION

The M5226 is a 5-element graphic equalizer IC best suited to audio systems. It has a built-in 5-element resonance circuits with transistor system and an output OP amp. The IC can be used in hybrid ICs and compact sets of high-density assemblies. Its applications include radio cassette tape players, car audio systems, and music centers.

FEATURES

- ■The number of part can be reduced drastically for compact
- Graphic equalizer can be easily composed
- Low distortionTHD = 0.02% (typ)
 - @Flat input short
- Low noise $V_{NO} = 5 \mu V_{rms}$ (typ)
 - @f = 1kHz, Flat
- Large allowable input voltage ·········· V_i = 2.3Vrms (typ)

WWW.DZSC.COM @Vcc = 9V, f = 1kHz, Flat



Outline 16P4(P)

2.54mm pitch 300mil DIP (6.3mm × 19.0mm × 3.3mm)

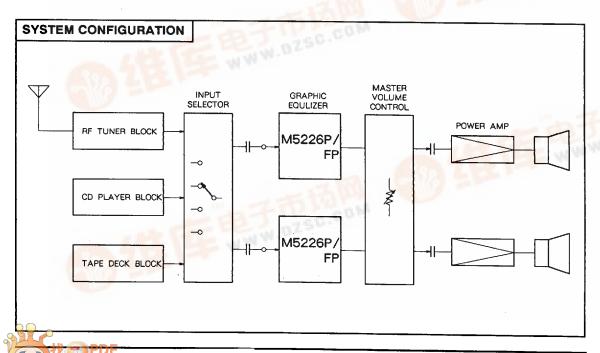


Outline 16P2S-A(FP)

1.27mm pitch 225mil SOP $(4.4 \text{mm} \times 10.0 \text{mm} \times 1.5 \text{mm})$

RECOMMENDED OPERATING CONDITIONS

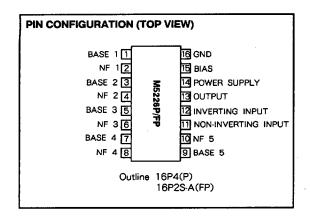
Supply voltage range Vcc = 4 to 20V Rated power dissipation 700mW (P) 550mW(FP)

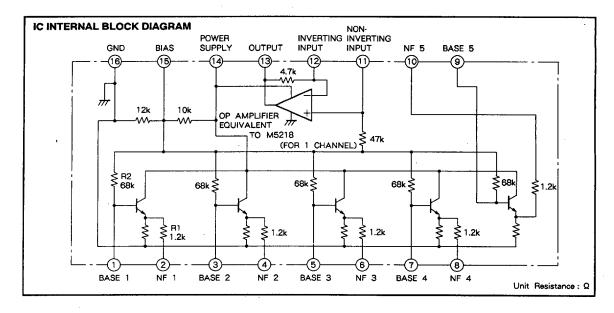


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M5226P/FP

5-ELEMENT GRAPHIC EQUALIZER IC





M5226P/FP

5-ELEMENT GRAPHIC EQUALIZER IC

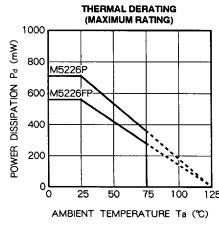
ABSOLUTE MAXIMUM RATINGS (Ta = 25 ℃, unless otherwise noted)

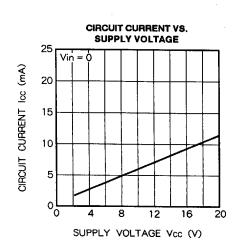
Symbol	Parameter	Ratings	Unit
Vcc	Supply voltage	20	V
ILP	Load current	30	mA
Pd	Power dissipation	550(FP)/1000(DIP)	mW
Topr	Operating temperature	- 20 to + 75	°C
Tstg	Storage temperature	- 55 to + 125	°C

ELECTRICAL CHARACTERISTICS (Ta = 25 °C, Vcc = 9V)

Symbol	Parameter Circuit current			Limits				
			f (Hz)	Test conditions	Min	Тур	Max	Unit
lcc				V _{in} = 0	3.0	5.2	8.0	mΑ
Gv(flat)		Flat	1k	V _{in} = - 10dBm	- 3.8	- 0.8	+ 2.2	dB
G∨(BOOST) .⊑.88		,	108		7.2	9.7	11.2	, ,
			343	Vin = - 10dBm	7.2	9.7	11.2	
	.⊑		1.08k		7.2	9.7	11.2	
			3.43k		7.2	9.7	11.2	
	8		10.8k		7.2	9.7	11.2	
Gv(cut)	岩	Cut	108	Vin = - 10dBm	- 12.8	-11.3	- 8.8	dB
	>		343		-12.8	-11.3	- 8.8	
			1.08k		-12.8	-11.3	- 8.8	
			3.43k		- 12.8	-11.3	- 8.8	
			10.8k		-12.8	-11.3	- 8.8	
THD	Total harmonic distortion		1k	V _{in} = 1Vrms	_	0.02	0.1	%
VNO	Out	put noise voltage	Input sh	ort BW: 10Hz to 30kHz (3dB) flat	_	5.0	20	

TYPICAL CHARACTERISTICS

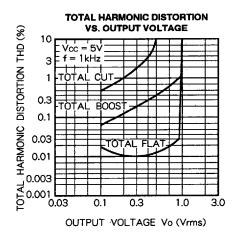


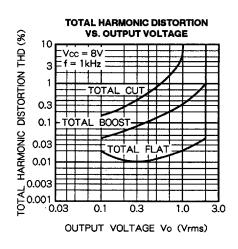


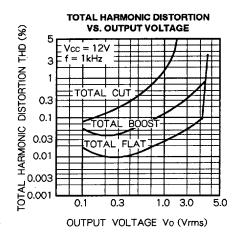


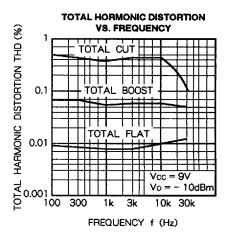
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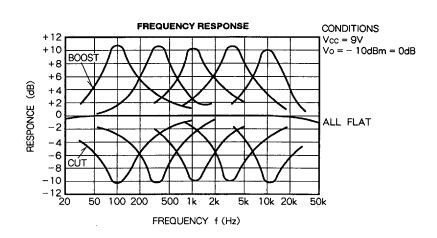
5-ELEMENT GRAPHIC EQUALIZER IC





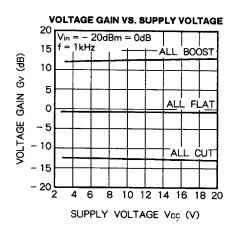


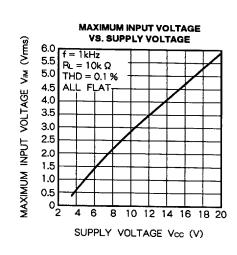


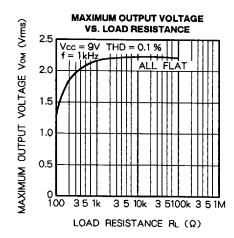


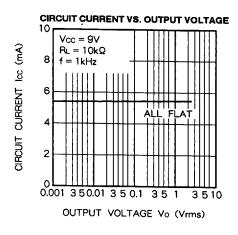
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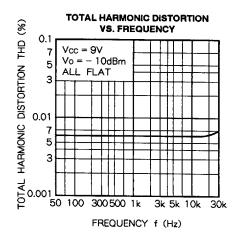
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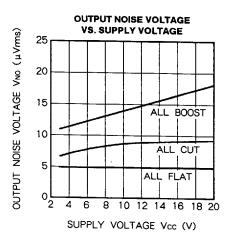








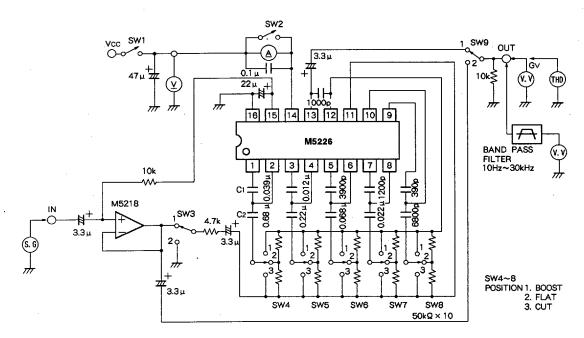




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5-ELEMENT GRAPHIC EQUALIZER IC

TEST CIRCUIT (Circuit current Icc, Voltage gain Gv, Total harmonic distortion THD, Output noise voltage Vno)



Units Resistance : Q Capacitance : F

TEST CIRCUIT SWITCH MATRIX

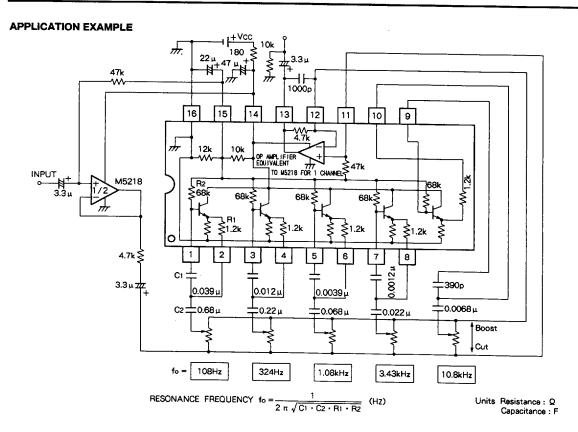
Test item		SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9
lcc		OFF	1	0	0	0	0	0	1
Gv(flat)		ON	1	2	2	2	2	. 2	1
Gv(BOOST)	f = 108Hz	ON	1	1	2	2	2	2	1
	f = 343Hz	ON	1	2	1	2	2	2	1
	f = 1.08kHz	ON	1	2	2	1	2	2	1
	f = 3.43kHz	ON	1	2 .	2	2	1	2	1
	f = 10.8kHz	ON	1	2	2	2	2	1	1
Gv(cut)	f = 108Hz	ON	1	3	2	2	2	2	1
	f = 343Hz	ON	1	2	3	2	2	2	1
	f = 1.08kHz	ON	1	2	2	3	2	2	1
	f = 3.43kHz	ON	1	2	2	2	3	2	1
	f = 10.8kHz	ON	1	2	2	2	2	3	1
THD		ON	1	2	. 2	2	2	2	1
Vno(allflat)		ON	2	2	2	2	2	2	1

Note: The mark "O" applies to both 1 and 2



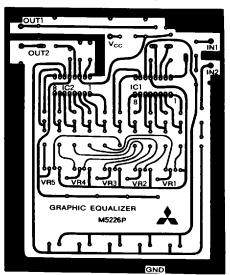
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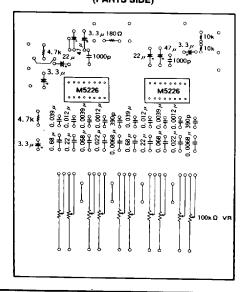


PRINTED CIRCUIT BOARD FOR CIRCUIT TESTING (TYPICAL APPLICATION EXAMPLE)

PC BOAD PARTS-PLACEMENT DIAGRAM (COPPER FOIL SIDE)



PC BOAD PARTS-PRACEMENT-DIAGRAM (PARTS SIDE)





M5226P/FP

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APPLICATION EXAMPLE (7-ELEMENT)

