

PM50XX VOICE BOARD

Feature

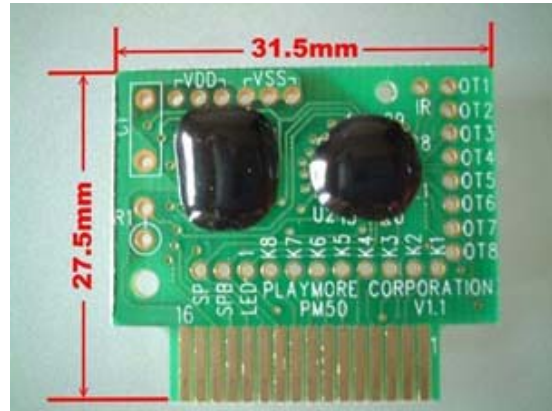
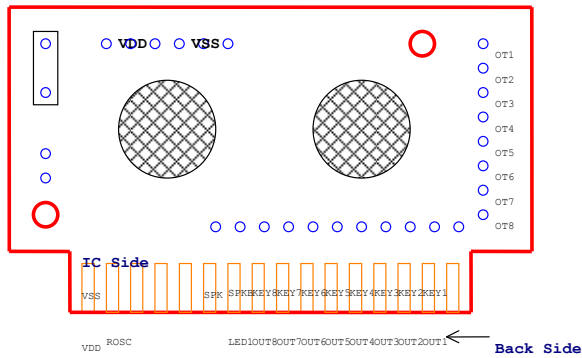
- 1) Built-in Flash memory and can be rewrite over 10,000 times
- 2) Operating voltage: 3-6V
- 3) Standby current: 1uA
- 4) Operating current: 50mA
- 5) Can direct output to 8 Ohm 1/2 W speaker
- 6) 8 input keys and 9 output port
- 7) Simply circuit
- 8) 13/20//50/100/150/200/250/300/350/400 second available
- 9) PM50SSXX (16 DIP COB) 13-50 second;
 PM50XX (SIP COB) 20-100 second;
 PM50M50 (28 DIP COB) 50-400 second

PM50XX series

Part No.	Description	Package
PM50SS13	13 second	16 DIP COB
PM5020/PM50SS20	20 second	SIP / 16 DIP COB
PM5050/PM50SS50/PM50M50	50 second	SIP / 16 DIP COB / 28 DIP COB
PM50100/PM50M100	100 second	SIP / 28 DIP COB
PM50M150	150 second	28 DIP COB
PM50M200	200 second	28 DIP COB
PM50M250	250 second	28 DIP COB
PM50M300	300 second	28 DIP COB
PM50M350	350 second	28 DIP COB
PM50M400	400 second	28 DIP COB

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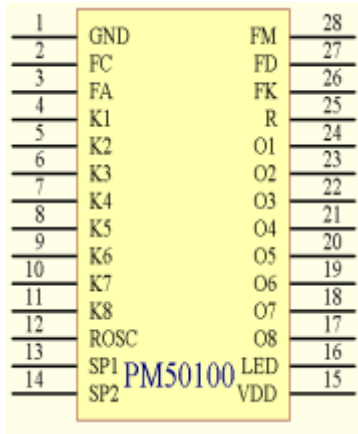
Pin assignment of PM50XX voice board in SIP package



Pin No.	Name	Description	Pin No.	Name	Description
1	NC		17	VDD	POWER
2	K1	KEY1	18	R1	ROSC
3	K2	KEY2	19		PROGRAMING PORT
4	K3	KEY3	20		PROGRAMING PORT
5	K4	KEY4	21		PROGRAMING PORT
6	K5	KEY5	22	NC	
7	K6	KEY6	23	LED1	INDICATED LAMP
8	K7	KEY7	24	OT8	OUT8
9	K8	KEY8	25	OT7	OUT7
10	SPB	SPEAKER1	26	OT6	OUT6
11	SP	SPEAKER2	27	OT5	OUT5
12		PROGRAMING PORT	28	OT4	OUT4
13		PROGRAMING PORT	29	OT3	OUT3
14		PROGRAMING PORT	30	OT2	OUT2
15	NC		31	OT1	OUT1
16	VSS	GND	32	NC	

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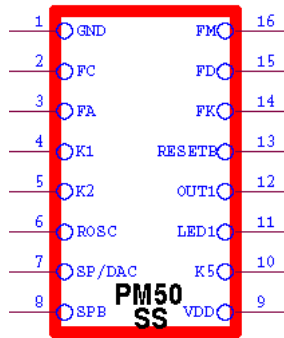
Pin assignment for PM50MXX voice board in COB package



Pin no.	Name	Description	Pin no.	Name	Description
1	GND	GROUND	15	FM	PROGRAMING PORT
2	FC	PROGRAMING PORT	16	FD	PROGRAMING PORT
3	FA	PROGRAMING PORT	17	FK	PROGRAMING PORT
4	K1	KEY1	18	R	PROGRAMING PORT
5	K2	KEY2	19	O1	OUT1
6	K3	KEY3	20	O2	OUT2
7	K4	KEY4	21	O3	OUT3
8	K5	KEY5	22	O4	OUT4
9	K6	KEY6	23	O5	OUT5
10	K7	KEY7	24	O6	OUT6
11	K8	KEY8	25	O7	OUT7
12	ROSC	OSC RESISTOR	26	O8	OUT8
13	SP1	SPEAKER1	27	LED	INDICATED LAMP
14	SP2	SPEAKER2	28	VDD	POWER

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Pin assignment for PM50SSXX voice board in COB package

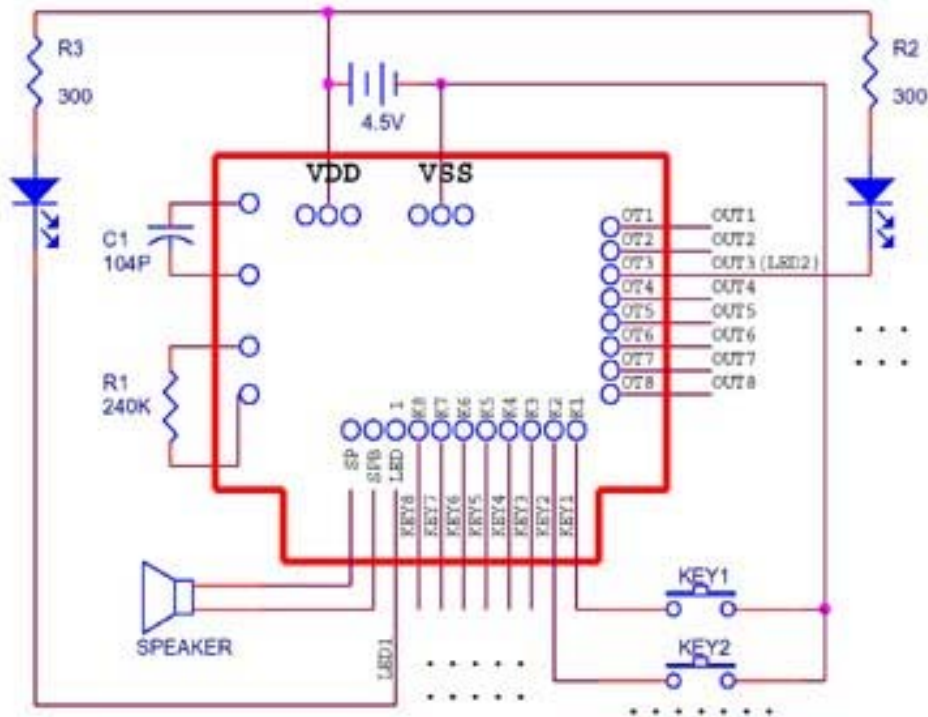


Pin no.	Name	Description	Pin no.	Name	Description
1	GND	GROUND	9	FM	PROGRAMING PORT
2	FC	PROGRAMING PORT	10	FD	PROGRAMING PORT
3	FA	PROGRAMING PORT	11	FK	PROGRAMING PORT
4	K1	KEY1	12	R	PROGRAMING PORT
5	K2	KEY2	13	O1	OUT1
6	RO SC	OSC RESISTOR	14	LED	INDICATED LAMP
7	SP1	SPEAKER1	15	K5	KEY 5
8	SP2	SPEAKER2	16	VDD	POWER

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Application circuit

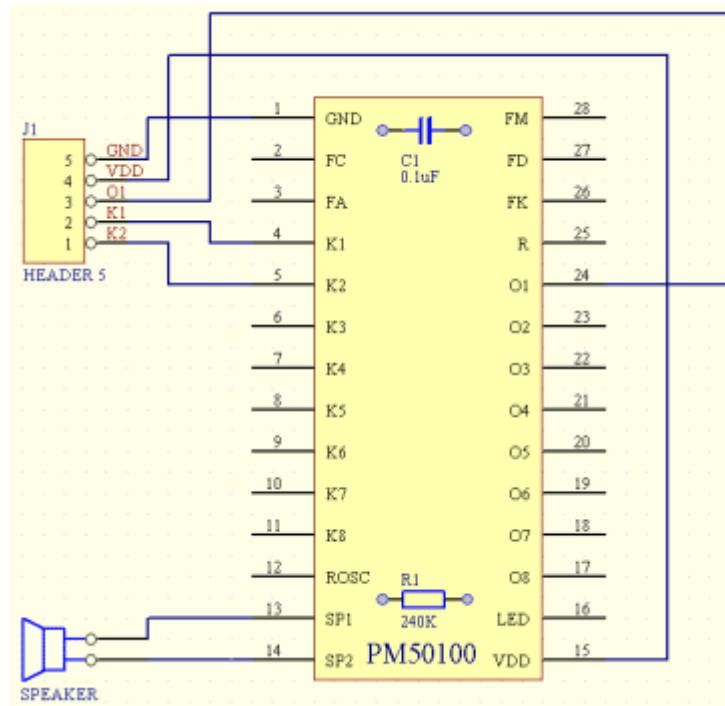
- 1) PM50 standard mode application circuit



(This is the PM5050 voice board application circuit diagram)
(Note: C1 must be 104P)

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2) PM50 serial mode application circuit



a) Function test

Press K5 – play 1 section of voice in sequentially

Press K7 – play 8 sections of voice in sequentially

b) Operating

K1 – data input key (voice address 80H – FFH)

K2 – Clock (10 – 100KHz)

O1 – Busy

