



MCR MOTOR CO.,LTD.

Best wave of 30kHz PWM driving mode with 48 subsections

- 1.PWM value: 5V
- 2.PWM max. value: 100%
- 3.Basic frequency: 30kHz

This drive wave has been tested through using MCU PWM port, and got good performance.

Item	Theory degree	Port 1 PWM(%)	Port 2 I/O□	Port 4 PWM(%)	Port 3 I/O□	Item	Theory degree	Port 1 PWM(%)	Port 2 I/O□	Port 4 PWM(%)	Port 3 I/O□	
1	0/360	69	0	69	0	25	180	31	1	31	1	
2	7.5	73	0	56	0	26	187.5	27	1	44	1	
3	15	77		43		27	195	23		57		
4	22.5	78		36		28	202.5	22		64		
5	30	80		29		29	210	20		71		
6	37.5	78		22		30	217.5	22		78		
7	45	77		16		31	225	23		84		
8	52.5	73		7		32	232.5	27		93		
9	60	69		0		100	1	33		240		31
10	67.5	56	0	93	1	34	247.5	44	1	7	0	
11	75	43		84		35	255	57		16		
12	82.5	36		78		36	262.5	64		22		
13	90	29		71		37	270	71		29		0
14	97.5	22		64		38	277.5	78		36		
15	105	16		57		39	285	84		43		
16	112.5	7		44		40	292.5	93		56		
17	120	100		1		31	1	41		300		0
18	127.5	93	1	27	1	42	307.5	7	0	73	0	
19	135	84		23		43	315	16		77		
20	142.5	78		22		44	322.5	22		78		
21	150	71		20		45	330	29		80		0
22	157.5	64		22		46	337.5	36		78		
23	165	57		23		47	345	43		77		
24	172.5	44		27		48	352.5	56		73		
Remarks	Input sequence:1->48, the rotor of motor operates in clockwise. Contrarily, input sequence:48->1, the rotor of motor operates in anticlockwise											

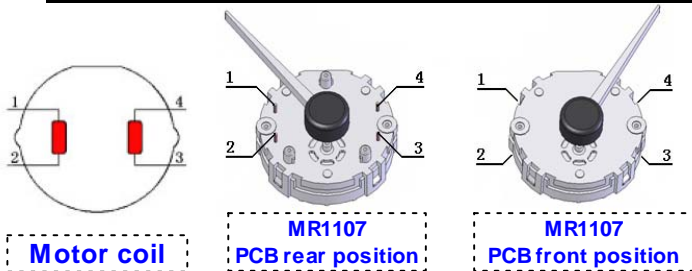


Chart 1: Connection sketch map of motor

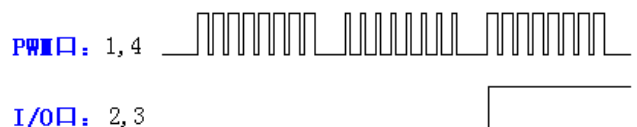


Chart 2: MCU control output wave

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