

Specifications of Bipolar Driver Board BD202411-T

- For Ring Pump RP-TX series -

1. Power supply voltage DC24V
2. Drive system Limited to quarter (1/4) steps.



3. Output current 0.1A

BD202411-T 0.1A

Applicable Stepper Motor : LPD6G-028 (RP-TX)

4. CW/CCW switching
High = CW Low = CCW
Select High when the voltage is higher than 2.0V and lower than 5.0V.
Select Low when the voltage is lower than 0.8V.
5. Start/Stop switching
High = Start Low = Stop
Select High when the voltage is higher than 2.0V and lower than 5.0V.
Select Low when the voltage is lower than 0.8V.

6. Driver IC BD63725BEFV (ROHM)

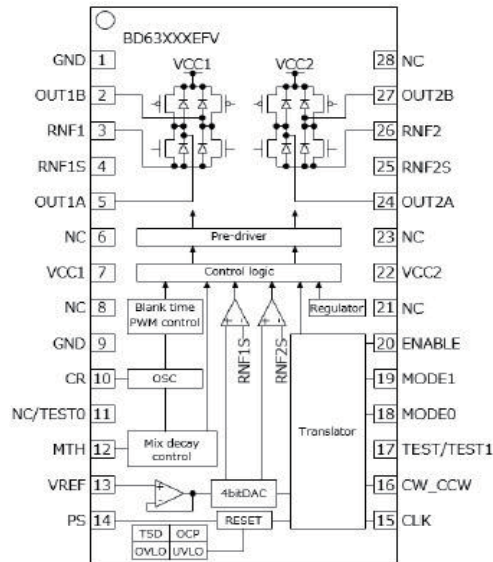


Figure 2 Driver Block I

Terminal Number	Name	Function	Terminal Number	Name	Function
1	GND	Ground Terminal	15	CLK	Phase-Forward Clock Input Terminal
2	OUT1B	H-bridge output terminal	16	CW_CCW	Motor rotation direction setting terminal
3	RNF1	Resistor connection terminal for current sensing	17*1	TEST	Test terminal (used by connecting to GND)
4	RNF1S	Current-sense comparator input terminal		TEST1	Test terminal
5	OUT1A	H-bridge output terminal	18	MODE0	Motor excitation mode setting terminal
6	NC	Non-connection	19	MODE1	Motor excitation mode setting terminal
7	VCC1	Power Terminal	20	ENABLE	Output Enable Terminal
8	NC	Non-connection	21	NC	Non-connection
9	GND	Ground Terminal	22	VCC2	Power Terminal
10	CR	Chopping frequency setting terminal	23	NC	Non-connection
11*	NC	Non-connection	24	OUT2A	H-bridge output terminal
	TEST0	Test terminal	25	RNF2S	Current-sense comparator input terminal
12	MTH	Current attenuation method setting terminal	26	RNF2	Resistor connection terminal for current sensing
13	VREF	Output current value setting terminal	27	OUT2B	H-bridge output terminal
14	PS	Power Save Terminal	28	NC	Non-connection

* 1 : Upper row BD63715AEFV, BD63725BEFV, BD63525AEFV

7. Clock terminal

Duty : 50%

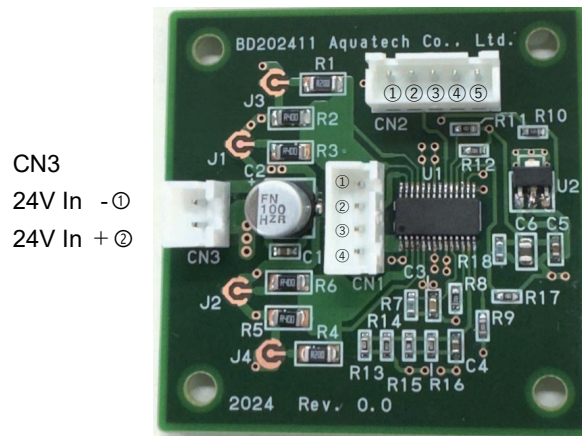
Select High when the voltage is higher than 2.8V and lower than 5.0V.

Select Low when the voltage is lower than 0.6V.

RP-TX

Frequency (Hz)	40	400	2000	3200	4000	5600	Step数
PPS	10	100	500	800	1000	1400	
RP-TX_Rotation(rpm)	0.2	2.2	11.0	17.7	22.1	30.9	2715Step

9. Explanation of Bi-polar Driver Board **BD202411-T** 50 x 50 □



CN3
24V In -①
24V In +②

Board-side male connector
B*B-XH-A Series/JST

Connection-side female connector
XHP* Series/JST
Contact Pin
BXH-001T-P0.6

- CN1** Stepper motor connection
- ① B+ Black
 - ② B- Brown
 - ③ A+ Yellow
 - ④ A- Orange

- CN2** Control circuit connection
- ① GND
 - ② CLK
 - ③ START/STOP
 - ④ CW/CCW
 - ⑤ DC5V-out

- CN3** Power input
- ① DC24V In-
 - ② DC24V In+

[An example of control board connection circuit]

