



MARKUS MECHATRONICS



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Parts list TA8435HQ simple microstepper board

LED 5MM LED

C1	3.3nF	Multilayer Condensator	2.5mm pitch
C2	100nF	Multilayer Condensator	2.5mm pitch
C3	100nF	Multilayer Condensator	2.5mm pitch
C8	100nF	Multilayer Condensator	2.5mm pitch

C4	470uF	Elko 5mm pitch, 13mm diameter	> 50 volt
C5	47uF	Elko 3.5mm pitch, 8mm diameter	> 10 Volt

Coil_A	MSTBA2	connector Phoenix 5.08mm 2 poles (don't forget to also buy the plug)
Coil_B	MSTBA2	connector Phoenix 5.08mm 2 poles (don't forget to also buy the plug)

5 volt	W237-132	connector Wago 5.08mm Pitch 2 poles
VMotor	W237-132	connector Wago 5.08mm Pitch, 2 poles

GND_STP_DIR	W237-3E	connector Wago 5.08mm Pitch, 3 poles	
ENB_RST_REF	W237-3E	connector Wago 5.08mm Pitch, 3 poles	OPTIONAL NOT NEEDED

D1	BYV27 -200	fast diode
D2	BYV27 -200	fast diode
D3	BYV27 -200	fast diode
D4	BYV27 -200	fast diode

Chip	TA8435HQ	HZIP25
S1	DIP SWITCH	3 switches in one housing DIL pitch

Resistors ¼ watt

R5	100k
R6	100k
R7	100K
R10	100k
R11	100k
R8	220R

R1	Resistor 2Watt	Value depends on desired output Current see schematic for details
R2	Resistor 2Watt	OPTIONAL if not used connect 'only one res wire'
R3	Resistor 2Watt	OPTIONAL if not used connect 'only one res wire'
R4	Resistor 2Watt	Value depends on desired output Current see schematic for details

Please try to buy these resistors with a diameter smaller or equal to 4mm

You only need R1 and R4. See [datasheet TA8435HQ](#) page 21 for information on how to choose values for R1 and R4. If you want a current value that cannot be made with standard resistor values in combination with REF=High or REF=LOW (connect REF=LOW wire) then you can use extra resistors R2 and R3 to make non standard values for the NFA and NFB resistors (NFA=R1+R2, NFB =R3+R4)