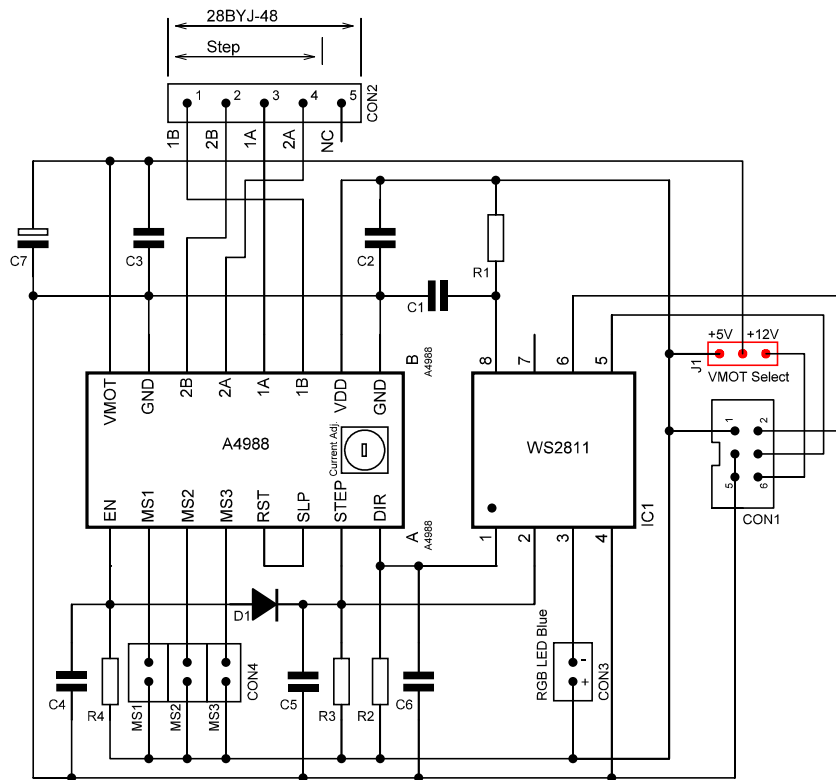


CON2	28BYJ-48	Step
1	Blue	A+
2	Pink	A-
3	Yellow	B-
4	Orange	B+
5	Red	-

A4988		
Current	64mV	225mV
Select		
VMOT	+5V	+12V

	CON4
Step Size	MS1 MS2 MS3
Full	x . .
1/2	x . .
1/4	x . .
1/8	x x x
1/16	x x x



Component list (reichelt)

C1 = 100nF (X7R-G0805 100N)
 C2 = 100nF (X7R-G0805 100N)
 C3 = 100nF (X7R-G0805 100N)
 C4 = 2u2F (KEM X5R0805 2,2u)
 C5 = 220nF (KEM X7R0805 220N)
 C6 = 220nF (KEM X7R0805 220N)
 C7 = 47uF/35V (M-A 47U 35)

CON1 = Header 2x3 (WSL 6G)
 CON2 = JST XH 5P for 28BYJ-48 (JST XH5P ST) or Header 1x4 for Step (MPE 087-1-004)
 CON3 = Header 1x2 (MPE 087-1-002)
 CON4 = Header 3x2 (MPE 087-2-006)
 Jumper Beige (3x) (MPE 149-1-002-F4)

D1 = 1N4148 (1N 4148 SMD)

Driver = A4988 (Amazon - B085MYN9VD)

A = Single Row female header 1x8 (MPE 094-1-008)

B = Single Row female header 1x8 (MPE 094-1-008)

IC1 = WS2811 (Amazon - B09JMZ7NBZ)

J1 = Header 1x3 (MPE 087-1-003)

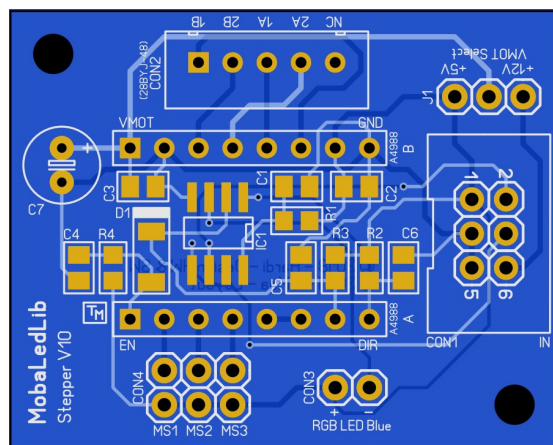
Jumper Red (MPE 149-1-002-F1)

R1 = 150 (SMD-0805 150)

R2 = 1K (SMD-0805 1,00K)

R3 = 1K (SMD-0805 1,00K)

R4 = 10K (SMD-0805 10,0K)



Modifications		Date	Name	Description	Page no.
Date	Name	v1.x	29-10-2021	TMAa	1
					Pages
		www.stummiforum.de			1
				Schematic no.	