

Bill of materials

	ref	value	remarks	
	C1	10μF 50V 1210 capacitor	CL32B106KBJNNNE or similar	
	C2	10μF 50V 1210 capacitor	CL32B106KBJNNNE or similar	
	C3	100n 0603 capacitor	Supply voltage decoupling	
	C4	100n 0603 capacitor	Supply voltage decoupling	
	C5	10n 0603 capacitor	555 noise suppression	
	C6	470p 0603 capacitor	Sets PWM frequency	
	D1	BAS40-04 dual schottky diode, SOT-23	Part of 555 PWM circuit	
	D2	SS21 schottky diode, SMB		
	J1	Micro USB connector		
	L1	100 μH inductor	DE1207-100 or similar	
	P1	Wago 2060 connector	For LED Strip	
	R1	0R22 0603 resistor	Sets the output current. $I = 0.1 / R$, here $I = 0.45 \text{ A}$.	
	RV1	3314G / 1804GSMD potentiometer 100k	PWM adjustment potentiometer	
	U1	SCT2932 SMPS IC, SO-8		
	U2	555 timer, SO-8	Absolute classic	
	PCB			