

## Buck Converter BOM

Component	Category	Item Name	References	Quantity	Vendor	Vendor No	Manufacturer	Price	Datasheet Links
1	Relay	Power PCB Relay	K1	1	Mouser	653-G6C-1114P-DC5	G6C-1114P-US-DC5	\$7.29	<a href="https://datasheet">https://datasheet</a>
2	Gate Driver	Gate Drivers 6A Hi-Speed	U1	1	Mouser	998-MIC4429ZN	MIC4429ZN	\$1.75	<a href="https://www.mou">https://www.mou</a>
3	Mosfet	MOSFT 55V 49A	Q1	1	Mouser	942-IRFZ44NLPBF	IRFZ44NLPBF	\$1.31	<a href="https://www.mou">https://www.mou</a>
4	Diode	Power, Switching 100V	D1	1	Mouser	512-1N4148	1N4148	\$0.10	<a href="https://www.mou">https://www.mou</a>
5	Inductor	Horizontal Toroid Magnetic Inductor	L1	1	Amazon		uxcell	\$1.82	<a href="https://www.ama">https://www.ama</a>
6	Capacitor	Polarized Capacitor	C2	1	Amazon		Glarks	\$0.05	<a href="https://www.ama">https://www.ama</a>
7	Capacitor	Ceramic Capacitor	C1, C3	2	Mouser	594-S104Z93Z5VL83L0R	S104Z93Z5VL83L0R	\$1.70	<a href="https://www.mou">https://www.mou</a>
8	Resistor	Res	R1	1	Mouser	571-4-1879619-9	4-1879619-9	\$0.82	<a href="https://www.te.cc">https://www.te.cc</a>