

BOM Rotating Color LED Display

item #	Abbrev.	pieces	description	Source	Part Number	link	remark
1	display pcb	1	RD56c printed circuit board fully assembled	JLPCB		https://ilpcb.com	production files in repository: RD56c_electronics > RD56c > production > RD56_2023-12-24_21-22-23 (or newer)
2	motor tray pcb	1	RD56c_motor_tray pcb. board only, no assembly	JLPCB		https://ilpcb.com	production files in repository: RD56c_electronics > RD56c_motor_tray > production > RD56c_motor_tray_2024-01-14_13-01-49 (or newer)
3	power supply pcb	1	RD56c_PS_V1 printed circuit board fully assembled	JLPCB		https://ilpcb.com	production files in repository: RD56c_electronics > RD56c_PS_V1 > production > RD56c_PS_V1_2024-01-14_12-52-29 (or newer)
4	secondary coil pcb	1	Sel_coil_V3 pcb. board only, no assembly	JLPCB		https://ilpcb.com	production files in repository: RD56c_electronics > Sek_Coil V3 > production > Sek_Coil_V3_2023-12-24_21-47-37 (or newer)
5	tray pcb		tray pcb. board only, no assembly	JLPCB		https://ilpcb.com	production files in repository: RD56c_electronics > tray > production > tray_2024-01-14_13-11-16 (or newer)
6	J2	1	CONN PWR JACK 2.1X5.5MM SOLDER	Digi-Key	EJ503A-ND	https://www.digikey.de/short/d4d54834	
7	RV1	1	Potentiometer 100k linear	Digi-Key	P160KN-0QC15B100K	https://www.digikey.de/short/3ti072jm	
8	C1	1	capacitor 33nF, MKP10, 630V	Reichelt	MKP10-630 33N	https://www.reichelt.de/mkp10-pp-puls-kondensator-33-nf-10-630-vdc-rm-15-mkp10-630-33n-p31975.html?&nbc=1	critical component! do NOT change type!!
9	L1	1	Coil 330 uH	Reichelt	L-09HVP 330µ	https://www.reichelt.de/stehende-induktivitaet-l-09hvp-ferrit-330-h-l-09hvp-330-p255620.html?&nbc=1	
10	M1	1	CD motor with tray	Amazon, ebay	RF-300F-12350		
11	magnet	1	magnet, diameter 6mm, thickness 3 mm	Amazon	Multi-Use Neodym Magnete - 6 x 3 mm	https://www.amazon.de/UTOMAG-Multi-Use-Neodym-Magnete-Aufbewahrungs/dp/B08F7HNG45/ref=sr_1_5?keywords=neodym+magnete+6mm&qid=1659078103&sr=8-5	
12	screw	2	M2x6 screw	generic			
13	M2 nuts	2	M2 nuts	generic			
14	M3 nuts	3	M3 nuts	generic			
15	bolt	4	bolt M3x20mm, female - female	Der Schraubenladen	Abstandsbolzen Messing vernickelt	https://shop.der-schraubenladen.de/schrauben/abstandsbolzen/1628/abstandsbolzen/distanzhalter-distinnen/innen-messing-vernickelt?number=SW11544.26&c=435	
16	screw	7	screw flat head, M3x6	Der Schraubenladen	ISO 7380-2 Linsenschraube mit Flansch Innensechskant Edelstahl A2	https://shop.der-schraubenladen.de/schrauben/metrische-schrauben/schrauben-flachkopf/2144/iso-7380-2-linsenschraube-mit-flansch-innensechskant-edelstahl-a2?number=SW12060.28&c=10	
17	bumper	4	bumper lens shape, diam. 6.4 mm, thickness 1.9 mm	Amazon	Home Xpert 70 Stück Schutzpuffer CLEAR Linse	https://amzn.eu/d/7VAHGcK	
18	pins 2,54 mm	1	2.54 mm pin row	Reichelt	SL 1X50G 2,54	https://www.reichelt.de/50pol-stiftleiste-gerade-rm-2-54-sl-1x50g-2-54-p19508.html?&nbc=1	
19	sw1a	1	switch, 90 degree, pcb mount				