

Sheet1

Part	Value	Device	Manufacturer	Package	Description
C1	1uF	CL21B105KAFNFNE	Samsung	0805	1µF ±10% 25V Ceramic Capacitor X7R 0805
C2	220nF	Capacitor	Samsung	0805	0.22µF ±10% 25V Ceramic Capacitor X7R 0805
D1	BAT54XV2CT	BAT54XV2	ON Semiconductor	SOD-523F	Schottky Diode 30V 200mA
IC1	CAT4137	CAT4137TD-GT3	ON Semiconductor	SOT23-5	LED Driver IC 1 Output DC DC Regulator Step-Up (Boost)
J1	24 GA. Wire	J_1	Any		24Gauge tinned copper wire, 0.25" long, to form 0.1" Bridge If using a single sided board.
L1	22uH	LQH32CH220K23L	Murata Electronics	1210	22µH Unshielded Wirewound Inductor 250mA 710mOhm
LED1	White LED	VLHW4100	Vishay Semiconductor	T1	LED WHITE CLEAR 3MM Through Hole
R1	12 Ohm	CRCW080512R0FKEA	Vishay Dale	0805	12 Ohms ±1% 0.125W, 1/8W Chip Resistor 0805
Spacer	3mm	R30-6700394	Harwin		ROUND SPACER M3 NYLON 3MM
PIN_1	24 GA. Wire	PINHD-1X1			24 Gauge Tinned Copper wire, 0.41 in. long
PIN_2	24 GA. Wire	PINHD-1X1			25 Gauge Tinned Copper wire, 0.41 in. long
					See text for directions