

Gerbers

Top Side

Total 36 parts detected65 Parts confirmed1 parts not selected

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Uploaded BOM Data			Review Matched Parts					
Top Designator	Comment	Footprint	Matched Part Detail	Qty	Source	Lib Type	Total Cost	Select
C1,C13	2.2uF	Capacitor_SMD:...	CL21A225KBQNNNE C377773 50V 2.2uF X5R ±10% 0805 Multilayer Ceramic C...	4	JLCPCB	Basic	\$0.0572	<input type="checkbox"/>
C3,C5,C9,C15	10uF	Capacitor_SMD:...	CL21A106KAYNNNE C15850 25V 10uF X5R ±10% 0805 Multilayer Ceramic Ca...	8	JLCPCB	Basic	\$0.0800	<input type="checkbox"/>
C4,C12	100nF	Capacitor_SMD:...	CC0805KRX7R9BB104 C49678 50V 100nF X7R ±10% 0805 Multilayer Ceramic ...	4	JLCPCB	Basic	\$0.0184	<input type="checkbox"/>
C6,C16,C17,C18,C...	22uF	Capacitor_SMD:...	CL10A226MQ8NRNC C59461 6.3V 22uF X5R ±20% 0603 Multilayer Ceramic C...	10	JLCPCB	Basic	\$0.0710	<input type="checkbox"/>
C7,C8	1uF	Capacitor_SMD:...	CL21B105KBFNNNE C28323 50V 1uF X7R ±10% 0805 Multilayer Ceramic Cap...	4	JLCPCB	Basic	\$0.0320	<input type="checkbox"/>
D2	LED	LED_SMD:LED_...	NCD0805R1 C84256 25mA Colorless transparent lens 67mcd~195m...	2	JLCPCB	Basic	\$0.0260	<input type="checkbox"/>
D4,D5	SS24B	SS24_R5G:DIO...	LMBR0540T1G C78545 40V 550mV 500mA SOD-123 Schottky Diodes R...	8	JLCPCB	Extended	\$0.1504	<input type="checkbox"/>
J4	TYPE-C-31-M-...	TYPE-C-31-M-12...	TYPE-C-31-M-12 C165948 5A 1 16P Female Type-C SMD USB Connectors ...	2	JLCPCB	Extended	\$0.3394	<input type="checkbox"/>
L1	10uH	Inductor_SMD:L...	MLF1608E120JT000 C76733 10mA 12uH ±5% 1.2Ω 0603 Inductors (SMD) RO...	6	JLCPCB	Extended	\$0.2352	<input type="checkbox"/>
L2,L3	22uH	Inductor_SMD:L...	SDWL4532C220KSTF C882637 155mA 20uH ±10% 11.5Ω SMD,3.2x4.5mm Indu...	5	JLCPCB	Extended	\$1.6945	<input type="checkbox"/>
P1	PHR-2	PHR-2:JST_PHR...	B2B-PH-K-S(LF)(SN) C131337 1x2P 2P PH Tin 2 -25°C~+85°C 2A 1 2mm Brass...	3	JLCPCB	Extended	\$0.0873	<input type="checkbox"/>
Q3	BSS138	Package_TO_SO...	LBSS138LT1G C8490 50V 200mA 225mW 3.5Ω@5V,200mA 1.5V 1 N-...	10	JLCPCB	Extended	\$0.1890	<input type="checkbox"/>
Q4,Q6	A03401A	Package_TO_SO...	A03401A C15127 30V 4A 44mΩ@10V,4.3A 1.4W 1.3V@250uA 1 P...	4	JLCPCB	Basic	\$0.2064	<input type="checkbox"/>
Q5,Q7	2N2222A	2N2222A:TO92...	A03401A C15127 30V 4A 44mΩ@10V,4.3A 1.4W 1.3V@250uA 1 P...					<input type="checkbox"/>
Q8	A03400A	Package_TO_SO...	A03400A C20917 30V 5.7A 26.5mΩ@10V,5.7A 1.4W 1.5V@250uA ...	2	JLCPCB	Basic	\$0.1722	<input type="checkbox"/>
R2,R6,R14,R15,R1...	10k	Resistor_SMD:R...	0805W8F1002T5E C17414 125mW Thick Film Resistors 150V ±100ppm/°C ...	16	JLCPCB	Basic	\$0.0288	<input type="checkbox"/>
R3	20	Resistor_SMD:R...	0805W8F200JT5E C17544 125mW Thick Film Resistors 150V ±1% ±200pp...	2	JLCPCB	Basic	\$0.0034	<input type="checkbox"/>
R4	20k	Resistor_SMD:R...	0805W8F2002T5E C4328	2	JLCPCB	Basic	\$0.0036	<input type="checkbox"/>

			125mW Thick Film Resistors 150V ±100ppm/°C ...						
R5	43k	Resistor_SMD:R...	0805W8F4302T5E C17695 ⓘ 125mW Thick Film Resistors 150V ±100ppm/°C ...		20	JLCPCB	Extended	\$0.0360 ⓘ	<input type="checkbox"/>
R7,R8	5.1k	Resistor_SMD:R...	0805W8F5101T5E C27834 ⓘ 125mW Thick Film Resistors 150V ±100ppm/°C ...		4	JLCPCB	Basic	\$0.0072 ⓘ	<input type="checkbox"/>
R9,R25,R26	1k	Resistor_SMD:R...	0805W8F1001T5E C17513 ⓘ 125mW Thick Film Resistors 150V ±100ppm/°C ...		6	JLCPCB	Basic	\$0.0102 ⓘ	<input type="checkbox"/>
R10	5k	Resistor_SMD:R...	0603WAF5101T5E C23186 ⓘ 100mW Thick Film Resistors 75V ±100ppm/°C ±...		2	JLCPCB	Basic	\$0.0020 ⓘ	<input type="checkbox"/>
R11	3.3k	Resistor_SMD:R...	0805W8F3301T5E C26010 ⓘ 125mW Thick Film Resistors 150V ±100ppm/°C ...		2	JLCPCB	Basic	\$0.0038 ⓘ	<input type="checkbox"/>
R16	0.1	Resistor_SMD:R...	FRL0805FR100TS C2934258 ⓘ 125mW Thick Film Resistors 300V ±1% ±600pp...		20	JLCPCB	Extended	\$0.0920 ⓘ	<input type="checkbox"/>
R18	47k	Resistor_SMD:R...	0805W8F4702T5E C17713 ⓘ 125mW Thick Film Resistors 150V ±100ppm/°C ...		2	JLCPCB	Basic	\$0.0036 ⓘ	<input type="checkbox"/>
R20	27k	Resistor_SMD:R...	0805W8F2702T5E C17593 ⓘ 125mW Thick Film Resistors 150V ±100ppm/°C ...		2	JLCPCB	Basic	\$0.0036 ⓘ	<input type="checkbox"/>
R22	33k	Resistor_SMD:R...	0805W8F3302T5E C17633 ⓘ 125mW Thick Film Resistors 150V ±100ppm/°C ...		2	JLCPCB	Basic	\$0.0038 ⓘ	<input type="checkbox"/>
R23	12k	Resistor_SMD:R...	0805W8F1202T5E C17444 ⓘ 125mW Thick Film Resistors 150V ±100ppm/°C ...		2	JLCPCB	Basic	\$0.0038 ⓘ	<input type="checkbox"/>
S1	SS12D07VG4	SS12D07VG4:S...	SS12D07VG4 C22435633 ⓘ Plugin-5P8.7x4.4mm Slide Switches ROHS		2	JLCPCB	Extended	\$0.0430 ⓘ	<input type="checkbox"/>
U1	IP2721	Package_SO:TS...	IP2721 C603176 ⓘ TSSOP-16 Interface - Specialized ROHS		2	JLCPCB	Extended	\$1.6110 ⓘ	<input type="checkbox"/>
U3	INA219AxD	Package_SO:SO...	INA219AIDCNR C87469 ⓘ SOT-23-8 Current Sense Amplifiers ROHS		2	JLCPCB	Extended	\$1.0770 ⓘ	<input type="checkbox"/>
U4,U5	DRV8833PW	Package_SO:TS...	DRV8833PWPR C50506 ⓘ TSSOP-16-EP Stepper Motor Driver ROHS		4	JLCPCB	Extended	\$2.6820 ⓘ	<input type="checkbox"/>
U6	MP2315SGJ-Z	footprints:TSOT...	MP2315SGJ-Z C3031493 ⓘ Monolithic Power Systems MP2315SGJ-Z		2	JLCPCB	Extended	\$4.6860 ⓘ	<input type="checkbox"/>
U7	MCP73831-2-...	Package_TO_SO...	MCP73831T-2ACI/OT C424093 ⓘ 6V Lithium-ion/Polymer 1 500mA SOT-23-5 Batt...		2	JLCPCB	Extended	\$1.5690 ⓘ	<input type="checkbox"/>
U8,U9	MT3608	Package_TO_SO...	MT3608 C84817 ⓘ Boost type 28V 2V~24V SOT-23-6 DC-DC Conver...		8	JLCPCB	Extended	\$0.4792 ⓘ	<input type="checkbox"/>
J1	Conn_02x16_...	Connector_PinS...	No Part Selected	Pre-order					

Please carefully check the packages of selected parts before proceeding.

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