



GERBER-Micro\_mouse\_final

Top Side

Total 32 parts detected

56 Parts confirmed

2 parts not selected

Complete File

Upload BOM/CPL

Uploaded BOM Data			Review Matched Parts						
Top Designator	Comment	Footprint	Matched Part Detail	Qty	Source	Lib Type	Total Cost	Select	
C1	1u	C1206	CL31B105KBHNNNE C1848 50V 1uF X7R ±10% 1206 Multilayer Ceramic Cap...	2	JLCPCB	Basic	\$0.0448		
C2	680u	CAP-TH_BD8.0-...	SPT1EM681F120R C698148 25V 680uF ±20% Plugin,D8xL12mm Polymer Alu...	2	JLCPCB	Extended	\$0.4938		
C3,C5,C6,C8	22u	C1206	CL31A226KAHNNNE C12891 25V 22uF X5R ±10% 1206 Multilayer Ceramic Ca...	8	JLCPCB	Basic	\$0.3712		
C4	220u	CAP-SMD_BD6....	RVT220UF10V67RV0037 C2833309 220uF 10V 69mA@120Hz ±20% SMD,D6.3xL5.4...	20	JLCPCB	Extended	\$0.6700		
C7	10u	CAP-SMD_L3.2-...	TAJA106K016RNJ C7171 10uF 16V 3Ω@100kHz ±10% CASE-A-3216-18(...	2	JLCPCB	Basic	\$0.2358		
D2,D6	SS34_C8678	SMA_L4.3-W2.6-...	SS34 C8678 40V Independent Type 3A 550mV@3A SMA(DO-...	4	JLCPCB	Basic	\$0.1088		
J2	USB_C_Recep...	TYPE-C-SMD_T...	TYPE-C 6P LTH6.5 C5187463 3A 1 Standing paste 6P Female -40°C~+85°C Ty...	2	JLCPCB	Extended	\$0.1564		
L1,L2,L3,L4	10u	L0805	SDFL2012S100KTF C1046 15mA 10uH ±10% 1.15Ω 0805 Inductors (SMD) ...	8	JLCPCB	Basic	\$0.1576		
LED1,LED2	KT-0603R	R0603	KT-0603R C2286 -40°C~+85°C Red 0603 LED Indication - Discrete...	4	JLCPCB	Basic	\$0.0224		
R1	0.2	R2512	RLP25FEER200 C459674 2W 200mΩ ±50ppm/°C ±1% 2512 Current Sense...	6	JLCPCB	Extended	\$0.3258		
R3	75k	R0603	0603WAF7502T5E C23242 100mW Thick Film Resistors 75V ±100ppm/°C ±...	2	JLCPCB	Basic	\$0.0022		
R5	8.2k	R0805	0805W8F8201T5E C17828 125mW Thick Film Resistors 150V ±100ppm/°C ...	2	JLCPCB	Basic	\$0.0036		
R6	1.2K	R1206	0805W8F1201T5E C17379 125mW Thick Film Resistors 150V ±100ppm/°C ...	2	JLCPCB	Basic	\$0.0038		
R10,R19,R21,R23,...	47k	R0805	0805W8F4702T5E C17713 125mW Thick Film Resistors 150V ±100ppm/°C ...	20	JLCPCB	Basic	\$0.0360		
R11,R13,R9	1	R1206	1206W4F100KT5E C17928 250mW Thick Film Resistors 200V ±800ppm/°C ...	6	JLCPCB	Basic	\$0.0294		
R12	2k	R1206	1206W4F2001T5E C17944 250mW Thick Film Resistors 200V ±100ppm/°C ...	2	JLCPCB	Basic	\$0.0062		
R14,R16	1k	R1206	1206W4F1001T5E C4410 250mW Thick Film Resistors 200V ±1% 1kΩ 120...	4	JLCPCB	Basic	\$0.0116		
R15	5.6k	R0805	0805W8F5601T5E C4382 125mW Thick Film Resistors 150V ±100ppm/°C ...	2	JLCPCB	Basic	\$0.0038		
R17,R20,R7,R8	RC-MT08W3R...	RES-ARRAY-SM...	RC-MT08W3R0JT C2002 4 ±5% 3Ω 62.5mW ±400ppm/°C 0402x4 Resistor...	20	JLCPCB	Extended	\$0.1340		
R18,R2,R22,R24,R...	27k	R0805	0805W8F2702T5E C17593 125mW Thick Film Resistors 150V ±100ppm/°C ...	36	JLCPCB	Basic	\$0.0648		
U1	INA219AxDCN	SOT-23-8	INA219AIDCNR C87469 SOT-23-8 Current Sense Amplifiers ROHS	2	JLCPCB	Extended	\$1.0890		
U3	HUSB237-AA0...	TDFN-6_L2.0-W...	HUSB237-AA001-DN06R C22373734 DFN-6L-EP(2x2) USB PD ROHS	6	JLCPCB	Extended	\$1.1214		
U4	MT3608	SOT-23-6_L2.9-...	MT3608 C84817 Boost type 28V 2V~24V SOT-23-6 DC-DC Conver...	6	JLCPCB	Extended	\$0.3594		
U5	LM2596SX-5-...	TO-263-5_L10.2-...	LM2596SX-5.0/NOPB C10002 Step-down type Fixed 5V 3A 4.5V~40V TO-263-5...	2	JLCPCB	Extended	\$1.7970		
U7,U8	L298N_C19922	MULTIWATT-15-...	L298N C19922 Half Bridge 4.5V~7V MultiwAtt-15 Gate Drivers ...	4	JLCPCB	Extended	\$12.2220		
U9	TP4056_C382...	ESOP-8_L4.9-W...	TP4056 C382139 4V~6V Lithium-ion/Polymer 1 1A ESOP-8 Batter...	2	JLCPCB	Extended	\$0.1932		
U10	SN74LVC1G3...	SC-70-6_L2.2-W...	SN74LVC1G3157DCKR C38663 15Ω 1 SPDT(SPDT) SC-70-6(SOT-363) Analog S...	6	JLCPCB	Extended	\$0.3090		
U11,U13	TPS22917DB...	SOT-23-6_L2.9-...	TPS22917DBVR C2681320 0V~5.5V 80mΩ 2A 1 SOT-23-6 Power Distributio...	4	JLCPCB	Extended	\$0.9260		
U12,U2	AMS1117-3.3	SOT-223-3_L6.5-...	AMS1117-3.3 C6186 72dB@(120Hz) 1A Fixed 3.3V Positive electrode...	4	JLCPCB	Basic	\$0.6620		
U14	SK22D15L5	SW-TH_XKB_SK...	SK22D15L5 C2884795 3A DPDT 50V 50V 3A 10000 times Black Plugin ...	2	JLCPCB	Extended	\$0.5970		
J1	Conn_01x02	JST_PH_S2B-P...	No Part Selected Search	Pre-order					
J3	Conn_02x16_...	PinHeader_2x16...	No Part Selected Search	Pre-order					

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