

GERBER-Micro\_mouse\_final

Top Side

Total 31 parts detected58 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	1u	C1206	CL31B105KBHNNNE C1848 50V 1uF X7R ±10% 1206 Multilayer Ceramic C...	5	JLCPCB	Basic	\$0.1120		
C2	680u	CAP-TH_BD8....	SPT1EM681F12OR C698148 25V 680uF ±20% Plugin,D8xL12mm Polymer A...	5	JLCPCB	Extended	\$1.2345		
C3,C5,C6,C8	22u	C1206	CL31A226KAHNNNE C12891 25V 22uF X5R ±10% 1206 Multilayer Ceramic ...	20	JLCPCB	Basic	\$0.9280		
C4	220u	CAP-SMD_BD...	RVT220UF10V67RV0037 C2833309 220uF 10V 69mA@120Hz ±20% SMD,D6.3xL5...	20	JLCPCB	Extended	\$0.6700		
C7	10u	CAP-SMD_L3....	TAJA106K016RNJ C7171 10uF 16V 3Ω@100kHz ±10% CASE-A-3216-1...	5	JLCPCB	Basic	\$0.5895		
D2,D6	SS34_C8678	SMA_L4.3-W2....	SS34 C8678 40V Independent Type 3A 550mV@3A SMA(D...	10	JLCPCB	Basic	\$0.2720		
J2	USB_C_Rec...	TYPE-C-SMD_...	TYPE-C 6P LTH6.5 C5187463 3A 1 Standing paste 6P Female -40°C~+85°C T...	5	JLCPCB	Extended	\$0.3910		
L1,L2,L3,L4	10u	L0805	SDFL2012S100KTF C1046 15mA 10uH ±10% 1.15Ω 0805 Inductors (SMD...	20	JLCPCB	Basic	\$0.3940		
LED1,LED2	KT-0603R	R0603	KT-0603R C2286 -40°C~+85°C Red 0603 LED Indication - Discre...	10	JLCPCB	Basic	\$0.0560		
R1	0.2	R2512	RLP25FEER200 C459674 2W 200mΩ ±50ppm/°C ±1% 2512 Current Sen...	9	JLCPCB	Extended	\$0.4887		
R3	75k	R0603	0603WAF7502T5E C23242 100mW Thick Film Resistors 75V ±100ppm/°C ...	5	JLCPCB	Basic	\$0.0055		
R5	8.2k	R0805	0805W8F8201T5E C17828 125mW Thick Film Resistors 150V ±100ppm/°C...	5	JLCPCB	Basic	\$0.0090		
R6	1.2K	R1206	0805W8F1201T5E C17379 125mW Thick Film Resistors 150V ±100ppm/°C...	5	JLCPCB	Basic	\$0.0095		
R10,R19,R21,R2...	47k	R0805	0805W8F4702T5E C17713 125mW Thick Film Resistors 150V ±100ppm/°C...	50	JLCPCB	Basic	\$0.0900		
R11,R13,R9	1	R1206	1206W4F100KT5E C17928 250mW Thick Film Resistors 200V ±800ppm/°C...	15	JLCPCB	Basic	\$0.0735		
R12	2k	R1206	1206W4F2001T5E C17944 250mW Thick Film Resistors 200V ±100ppm/°C...	5	JLCPCB	Basic	\$0.0155		
R14,R16	1k	R1206	1206W4F1001T5E C4410 250mW Thick Film Resistors 200V ±1% 1kΩ 1...	10	JLCPCB	Basic	\$0.0290		
R15	5.6k	R0805	0805W8F5601T5E C4382 125mW Thick Film Resistors 150V ±100ppm/°C...	5	JLCPCB	Basic	\$0.0095		
R17,R20,R7,R8	RC-MT08W3...	RES-ARRAY-S...	RC-MT08W3R0JT C2002 4 ±5% 3Ω 62.5mW ±400ppm/°C 0402x4 Resist...	30	JLCPCB	Extended	\$0.2010		
R18,R2,R22,R24,...	27k	R0805	0805W8F2702T5E C17593 125mW Thick Film Resistors 150V ±100ppm/°C...	90	JLCPCB	Basic	\$0.1620		
U1	INA219AxDCN	SOT-23-8	INA219AIDCNR C87469 SOT-23-8 Current Sense Amplifiers ROHS	5	JLCPCB	Extended	\$2.7225		
U3	HUSB237-A...	TDFN-6_L2.0-...	HUSB237-AA001-DN06R C22373734 DFN-6L-EP(2x2) USB PD ROHS	9	JLCPCB	Extended	\$1.6821		
U4	MT3608	SOT-23-6_L2.9...	MT3608 C84817 Boost type 28V 2V~24V SOT-23-6 DC-DC Con...	9	JLCPCB	Extended	\$0.5391		
U5	LM2596SX-5...	TO-263-5_L10....	LM2596SX-5.0/NOPB C10002 Step-down type Fixed 5V 3A 4.5V~40V TO-263...	5	JLCPCB	Extended	\$4.4925		
U7,U8	L298N_C19922	MULTIWATT-1...	L298N C19922 Half Bridge 4.5V~7V MultiwAtt-15 Gate Drivers ...	10	JLCPCB	Extended	\$26.5050		
U9	TP4056_C38...	ESOP-8_L4.9-...	TP4056 C382139 4V~6V Lithium-ion/Polymer 1 1A ESOP-8 Batte...	5	JLCPCB	Extended	\$0.4830		
U10	SN74LVC1G...	SC-70-6_L2.2-...	SN74LVC1G3157DCKR C38663 15Ω 1 SPDT(SPDT) SC-70-6(SOT-363) Analo...	9	JLCPCB	Extended	\$0.4635		
U11,U13	TPS22917D...	SOT-23-6_L2.9...	TPS22917DBVR C2681320 0V~5.5V 80mΩ 2A 1 SOT-23-6 Power Distribut...	10	JLCPCB	Extended	\$2.3150		
U12,U2	AMS1117-3.3	SOT-223-3_L6....	AMS1117-3.3 C6186 72dB@(120Hz) 1A Fixed 3.3V Positive electro...	10	JLCPCB	Basic	\$1.6550		
U14	SK22D15L5	SW-TH_XKB_...	SK22D15L5 C2884795 3A DPDT 50V 50V 3A 10000 times Black Plugi...	5	JLCPCB	Extended	\$1.4925		
J1	Conn_01x02	JST_PH_S2B-...	No Part Selected		Pre-order				

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