

























GERBER-Power_Board_3088F






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Uploaded BOM Data			Review Matched Parts				
Top Designator	Comment	Footprint	Matched Part Detail	Qty	Source	Lib Type	
3V3,D8	LED_P2	LED_0603_1608...	KT-0603W C2290  White 0603 LED Indication - Discrete ROHS 	4	JLCPCB	Basic	
5V0,D4	LED__P1	LED_0603_1608...	KT-0603R C2286  -40°C~-+85°C Red 0603 LED Indication - Discret... 	4	JLCPCB	Basic	
C_B1	10uF	C_1206_3216M...	CL31A106KBHNNNE C13585 50V 10uF X5R ±10% 1206 Multilayer Ceramic Ca... 	2	JLCPCB	Basic	
C_B2	10nF	C_0603_1608M...	0603B103K500NT C57112 50V 10nF X7R ±10% 0603 Multilayer Ceramic Ca... 	2	JLCPCB	Basic	
C_B3,C_B5,C_P1,C...	10uF	C_0603_1608M...	CL10A106MA8NRNC C96446  25V 10uF X5R ±20% 0603 Multilayer Ceramic Ca... 	8	JLCPCB	Basic	
C_B4	220uF	CP_Elec_6.3x7.7	149EC920 C19100600 16V 220uF ±20% 40mΩ@100kHz 2.26A@100kH... 	5	JLCPCB	Extended	
C_C1,C_L1,C_L2	1uF	C_0603_1608M...	CL10A105KB8NNNC C15849  50V 1uF X5R ±10% 0603 Multilayer Ceramic Cap... 	6	JLCPCB	Basic	
C_L3,C_L4	1n	C_0603_1608M...	CL10B102KB8NNNC C1588 50V 1nF X7R ±10% 0603 Multilayer Ceramic Cap... 	4	JLCPCB	Basic	
C_P2,C_P3,C_P4,C...	22u	C_0603_1608M...	CL10A226MQ8NRNC C59461 6.3V 22uF X5R ±20% 0603 Multilayer Ceramic C... 	8	JLCPCB	Basic	
D7	BA340A	B340A	B340A C64982 40V Independent Type 550mV@3A 3A SMA(DO-... 	6	JLCPCB	Extended	
LB1	18uH	L_Abracon_ASPI...	FNR4030S180MT C167882 1.2A 18uH ±20% 1.5A SMD,4x4mm Power Induc... 	6	JLCPCB	Extended	
L_P3	1uH	L_Changjiang_F...	FAUL0630-1R0MT C3040349 12A 1uH ±20% Integrated molded inductor 15A ... 	5	JLCPCB	Extended	
Q2	2N7002	SOT-23	2N7002 C8545 60V 115mA 200mW 7.5Ω@10V,500mA 2.5V@2... 	2	JLCPCB	Basic	
R21,R22	1R	R_0603_1608M...	0603WAF100KT5E C22936 100mW Thick Film Resistors 75V ±1% ±400ppm... 	4	JLCPCB	Basic	
R_B1,R_B7,R_C1	10k	R_0603_1608M...	0603WAF100T5E C25804  100mW Thick Film Resistors 75V ±100ppm/°C ... 	6	JLCPCB	Basic	
R_B2,R_I1,R_I2	3k3	R_0603_1608M...	0603WAF330T5E C22978  100mW Thick Film Resistors 75V ±100ppm/°C ... 	6	JLCPCB	Basic	
R_B3,R_B4,R_C2,R...	1k	R_0603_1608M...	0603WAF100T5E C21190  100mW Thick Film Resistors 75V ±100ppm/°C ... 	10	JLCPCB	Basic	
R_B6	100R	R_0603_1608M...	0603WAF100T5E C22775 100mW Thick Film Resistors 75V ±1% ±200ppm... 	2	JLCPCB	Basic	
R_BFAST1	2k7	R_0603_1608M...	0603WAF270T5E C13167 100mW Thick Film Resistors 75V ±100ppm/°C ... 	2	JLCPCB	Basic	
R_BSLow2	5k6	R_0603_1608M...	0603WAF560T5E C23189 100mW Thick Film Resistors 75V ±100ppm/°C ... 	2	JLCPCB	Basic	
R_C3	6k8	R_0603_1608M...	0603WAF680T5E C23212 100mW Thick Film Resistors 75V ±100ppm/°C ... 	2	JLCPCB	Basic	
R_PFB1	510k	R_0603_1608M...	0603WAF510T5E C23192 100mW Thick Film Resistors 75V ±100ppm/°C ... 	2	JLCPCB	Basic	
R_PFB2	68k	R_0603_1608M...	0603WAF680T5E C23231 100mW Thick Film Resistors 75V ±100ppm/°C ... 	2	JLCPCB	Basic	
R_SH1	0.1	R_1206_3216M...	FRM121WFR100TM C7467250 1W 100mΩ Current Sensing Resistors ±50ppm/... 	6	JLCPCB	Extended	
SW1	~	SW-TH_SS-12D1...	SS-12D11G5 C692484 Horizontal Plug 3A Single Pole Double Throw (S... 	2	JLCPCB	Extended	
U2	INA219AxDCN	SOT-23-8	INA219AIDCNR C87469 SOT-23-8 Current Sense Amplifiers ROHS 	2	JLCPCB	Extended	
U4	~	USB-C-SMD_G-S...	GT-USB-7010ASV C2988369  USB 2.0 3A 1 260°C Horizontal attachment 16P ... 	2	JLCPCB	Extended	
U5	TPS5430DDA	SOIC-8-1EP_3.9...	TPS5430DDAR C9864 Step-down type Adjustable 1.221V~32.04V 3A 5... 	2	JLCPCB	Basic	
U6	TP4056-42-ES...	SOIC127P600X...	TP4056-42-ESOP8 C16581 ESOP-8 Battery Management ROHS 	2	JLCPCB	Basic	
U7	AP22966DC8-7	IC_AP22966DC...	AP22966DC8-7 C441830 	2	JLCPCB	Extended	

			DFN3020-14-EP Power Distribution Switches RO...				
U9	CH224K	SSOP-10-1EP_3....	CH224K C970725 USB charging chip ESSOP-10-150mil-1mm USB ...		2	JLPCB	Extende
U14,U15,U16,U17	DRV8837DSGR	SON50P200X20...	DRV8837DSGR C39159 WS0N-8-EP(2x2) Brushed DC Motor Drivers RO...		10	JLPCB	Extende
U_P1	TPS61022	Texas_RWU000...	TPS61022RWUR C915088 Boost type Adjustable 2.2V~5.5V 500mV~5.5V ...		5	JLPCB	Extende
U_P2	AMS1117-3.3	SOT-223-3_TabP...	AMS1117-3.3 C6186 72dB@(120Hz) 1A Fixed 3.3V Positive electrode...		2	JLPCB	Basic

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