

Top Side

Total 34 parts detected34 Parts confirmed

Complete File

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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,C14	CAP,22pF,±2%,...	CAP,22pF,±2%,5...	0603CG220G500NT C2836770 50V 22pF COG ±2% 0603 Multilayer Ceramic Ca...	20	JLCPCB	Extended	\$0.1540	
C2,C3,C10,C11	CAP,10uF,10%,...	CAP,10uF,10%,6...	0805X106K500NT C6117579 50V 10uF X5R ±10% 0805 Multilayer Ceramic Ca...	22	JLCPCB	Extended	\$1.5356	
C4,C5,C6,C7,C8,C1...	CAP0.1uF,±10...	CAP0.1uF,±10%,...	0603B104K160CT C80516 16V 100nF X7R ±10% 0603 Multilayer Ceramic C...	55	JLCPCB	Extended	\$0.1155	
C9,C18,C19	TAJC476K016...	AVX-TAJ-C-2_L	TAJJC476K016RNJ C7219 47uF 16V 500mQ@100kHz ±10% CASE-C-6032 ...	15	JLCPCB	Extended	\$3.2760	
C17	CAP-00470	chip_0603	0603B471K500NT C1620 50V 470pF X7R ±10% 0603 Multilayer Ceramic C...	20	JLCPCB	Basic	\$0.0460	
D1,D3	DIO-00006	sod323_0	D3Z3V9BF-7 C444415 Independent Type 3.89V~4.16V 400mW 4.03V S...	14	JLCPCB	Extended	\$0.7420	
D2	1N5819HW-7-F	FP-SOD123-IPC_B	1N5819HW-7-F C82544 40V 450mV@1A 1A SOD-123 Schottky Diodes R...	20	JLCPCB	Extended	\$0.5200	
D4	RGBLED	FP-CLP6C-FKB-...	MHP5050RGBDTC409780 SMD5050 RGB LEDs ROHS	5	JLCPCB	Extended	\$0.8090	
DS1,DS2	19-217/BHC-Z...	EVRL-0603-2_V	YLED0603R C19171390 25mA -40°C~+85°C 620nm~625nm Red 1.8V~2...	20	JLCPCB	Extended	\$0.0960	
F1	MISC-00056	chip_1210	1210L300/24WR C22379947 24V 3A 100A 6A 1210 Resettable Fuses ROHS	7	JLCPCB	Extended	\$0.7679	
IC1	W25Q64JVXG...	SON80P400X40...	W25Q64JVXGIQ C2940195 XSON-8-EP(4x4) NOR FLASH ROHS	5	JLCPCB	Extended	\$2.8725	
J1	i2cheader	JST_XH_4_0	B4B-XH-A-M(LF)(SN) C594233 1x4P 4P XH Tin 4 -25°C~+85°C 3A 1 2.5mm Bra...	5	JLCPCB	Extended	\$0.3880	
J2	10103594-00...	FCI-10103594-0...	10103594-0001LF C428495 USB 2.0 1 Horizontal attachment 5P Female -30...	5	JLCPCB	Extended	\$1.6330	
J3	LimitSwitchH...	JST_XH_3_0	XH-3A-L C2979571 1x3P 3P XH 1 Tin 2.5mm 3 -25°C~+85°C Brass ...	6	JLCPCB	Extended	\$0.0948	
J5	JST-XH	HDDR_2x1_0	B2B-XH-A-GU C265283 1x2P 2P XH Gold 2 -25°C~+85°C 3A 1 2.5mm Br...	5	JLCPCB	Extended	\$1.0780	
L1	7440430012	WE-TPC_4828	FNR6045S1R2NT C168055 5.9A 1.2uH ±30% 9.1A SMD,6x6mm Power Indu...	6	JLCPCB	Extended	\$0.2010	
P1	MOTOR_CON	HDDR_6X1_0	2.54-1x6P直針 C37208 3A Direct Insert Policy 6P -40°C~+105°C 2.54m...	5	JLCPCB	Extended	\$0.1335	
R1	Resistor0R+/-...	RESC1608X55X...	CR-03FL7---0R C304185 100mW Thick Film Resistors 75V ±1% 0Q 0603 ...	20	JLCPCB	Extended	\$0.0300	
R2,R5,R6,R7	RES-00306	chip_0603	MR06X1002FTL C304415 125mW Thick Film Resistors 75V ±100ppm/°C ±...	30	JLCPCB	Extended	\$0.0510	
R3,R9,R18,R19,R20	Resistor200R...	RESC0402(1005...	SCR0402F200R C3015766 62.5mW Thick Film Resistors 50V ±1% 200Q 04...	35	JLCPCB	Extended	\$0.0175	
R4	RES-00074	chip_0603	RLT03R15JTP C5141155 ±5% 150mQ 0603 Chip Resistor - Surface Mount...	20	JLCPCB	Extended	\$0.0560	
R8	1KR2J	RESC0402(1005...	RTT02102JTH C102758 62.5mW Thick Film Resistors 50V ±100ppm/°C ...	20	JLCPCB	Extended	\$0.0080	
R10	Resistor10R+/-...	RESC0402(1005...	0402WGF100JTCE C25077 62.5mW Thick Film Resistors 50V ±1% ±200pp...	20	JLCPCB	Basic	\$0.0100	
R11	RES-00799	chip_0603	CR0603FA4702G C101063 100mW Thick Film Resistors 50V ±100ppm/°C ±...	20	JLCPCB	Extended	\$0.0160	
R12	12KR2F	RESC0402(1005...	RK73B1ETTP123J C131502 100mW Thick Film Resistors 75V ±5% ±200ppm...	20	JLCPCB	Extended	\$0.0380	
R13	RES-00341	chip_0603	AF0603FR-0715KL C144086 100mW Thick Film Resistors 75V ±100ppm/°C ±...	20	JLCPCB	Extended	\$0.0720	
R14,R15	10KR2F	RESC0402(1005...	CR0402J10K0Q10Z C881063 63mW Thick Film Resistors ±100ppm/°C ±5% 1...	20	JLCPCB	Extended	\$0.0080	
R16,R17	RES-00782	chip_0603	ERJPA3F3901V C278676 250mW Thick Film Resistors ±100ppm/°C ±1% ...	20	JLCPCB	Extended	\$0.5460	
RST,BT	TM-533I-Q-T/R	MULT-TM-533I-Q...	4*4*1.7 贴片 C10852 5.2mm 1.5mm Round Button 50mA Standing pa...	11	JLCPCB	Extended	\$0.2035	
U1	SC0914(13)	QFN40P700X70...	RP2040 C2040 133MHz LQFN-56(7x7) Microcontrollers (MCU/...	5	JLCPCB	Extended	\$5.0100	
U2	AP64501SP-13	FP-SO-8EP-IPC_B	AP64501SP-13 C2071517 Step-down type Adjustable 5A 3.8V~40V 800m...	5	JLCPCB	Extended	\$8.3700	
U3	A4950ELJTR-T	SOIC-8_ALM	A4950ELJTR-TMS C7473144 SOIC-8-EP Brushed DC Motor Drivers ROHS	5	JLCPCB	Extended	\$1.9125	
U4	G-NiceRFIora1...	Newfootprint1	lora1276-C1-915MHz C3001531 915MHz SMD,16x16mm LoRa Modules ROHS	5	JLCPCB	Extended	\$38.3625	
X1	ABM3B-12.00...	ABRA-ABM3B-4...	X503212MSB4SI C112588 12MHz Surface Mount Crystal 20pF ±10ppm ±2...	5	JLCPCB	Extended	\$1.1260	

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