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Select PartsQuoteTop Side Select the parts you want to assemble on your boards. No restrictions on using extended parts for each order now.

Total 54 parts detected53 Parts confirmed1 Inventory shortage0 parts not selected

Uploaded BOM Data			Review Matched Parts					
Top Designator	Comment	Footprint	Matched Part Detail	Qty	Source	Lib Type	Total Cost	Select ?
C38,C39	220 pF 6V X7R	Capacitor_SMD:C...	0402B221K500NT 50V 220pF X7R ±10% 0402 Multi...	C1530 4	JLCPCB	Basic	\$0.0044	
C27,C28,C5...	33 pF 6V C0G	Capacitor_SMD:C...	0402CG330J500NT 50V 33pF C0G ±5% 0402 Multila...	C1562 6	JLCPCB	Basic	\$0.0060	
C56	47 nF 30V X7R	Capacitor_SMD:C...	CL10B473KB8NNNC 50V 47nF X7R ±10% 0603 Multil...	C1622 2	JLCPCB	Basic	\$0.0076	
IC1	RP2040_QFN56	RP2040:QFN56_7M...	RP2040 ARM Cortex-M0 1@x4ch/12bit USB...	C2040 2	JLCPCB	Extended	\$2.1338	
D1,D2,D3	Zener 3V3	Diode_SMD:D_Min...	ZMM3V3-M 2uA@1V 85Ω Single 3.1V~3.5V 50...	C8056 6	JLCPCB	Basic	\$0.0660	
Y1	12MHz X322512MS...	Crystal:Crystal...	X322512MSB4SI 12MHz SMD Crystal Resonator 20...	C9002 2	JLCPCB	Basic	\$0.1666	
R4,R5,R14,...	1K	Capacitor_SMD:C...	0402WGF1001TCE 62.5mW Thick Film Resistors 50...	C11702 16	JLCPCB	Basic	\$0.0080	
C36,C70,C7...	22 uF 25V X7R	Capacitor_SMD:C...	CL31A226KAHNNNE 25V 22uF X5R ±10% 1206 Multil...	C12891 18	JLCPCB	Basic	\$0.9000	
C34,C37,C4...	10 uF 35V X7R	Capacitor_SMD:C...	CL31A106KBHNNNE 50V 10uF X5R ±10% 1206 Multil...	C13585 12	JLCPCB	Basic	\$0.3552	
C29,C30,C4...	10 nF 30V X7R	Capacitor_SMD:C...	CL05B103KB5NNNC 50V 10nF X7R ±10% 0402 Multil...	C15195 22	JLCPCB	Basic	\$0.0198	
C5,C19,C20...	1 uF 30V X7R	Capacitor_SMD:C...	CL10A105KB8NNNC 50V 1uF X5R ±10% 0603 Multila...	C15849 12	JLCPCB	Basic	\$0.0576	
C9,C48,C49	220 nF 6V X7R	Capacitor_SMD:C...	CL05B224KO5NNNC 16V 220nF X7R ±10% 0402 Multi...	C16772 6	JLCPCB	Basic	\$0.0300	
C10,C53,C5...	4.7 uF 16V X5R	Capacitor_SMD:C...	CL10A475KO8NNNC 16V 4.7uF X5R ±10% 0603 Multi...	C19666 8	JLCPCB	Basic	\$0.0680	
Q2,Q3,Q5,Q...	A03400A	Package_TO_SOT_...	A03400A 30V 5.7A 26.5mΩ@10V,5.7A 1.4W ...	C20917 8	JLCPCB	Basic	\$0.7432	
R83,R84	0R	Capacitor_SMD:C...	0603WAF0000T5E 100mW Thick Film Resistors 75V...	C21189 4	JLCPCB	Basic	\$0.0036	
R46,R50	10	Capacitor_SMD:C...	0402WGF100JTCE 62.5mW Thick Film Resistors 50...	C25077 4	JLCPCB	Basic	\$0.0020	
R17,R18,R4...	27R	Capacitor_SMD:C...	0402WGF270JTCE 62.5mW Thick Film Resistors 50...	C25100 20	JLCPCB	Extended	\$0.0100	
R12,R13,R1...	330	Capacitor_SMD:C...	0402WGF3300TCE 62.5mW Thick Film Resistors 50...	C25104 12	JLCPCB	Basic	\$0.0060	
R7,R9,R10,...	10K	Capacitor_SMD:C...	0402WGF1002TCE 62.5mW Thick Film Resistors 50...	C25744 36	JLCPCB	Basic	\$0.0216	
R8,R31,R64...	200K	Capacitor_SMD:C...	0402WGF2003TCE 62.5mW Thick Film Resistors 50...	C25764 16	JLCPCB	Basic	\$0.0080	
R43,R59	110K	Capacitor_SMD:C...	0603WAF1103T5E 100mW Thick Film Resistors 75V...	C25805 4	JLCPCB	Basic	\$0.0048	
R1,R2,R3,R...	4K7	Capacitor_SMD:C...	0402WGF4701TCE 62.5mW Thick Film Resistors 50...	C25900 18	JLCPCB	Basic	\$0.0090	
R6,R16,R21...	1M	Capacitor_SMD:C...	0402WGF1004TCE 62.5mW Thick Film Resistors 50...	C26083 14	JLCPCB	Basic	\$0.0070	
D4,D7	PMEG3050EP	Diode_SMD:D_SOD...	PMEG3050EP,115 30V 5A 360mV @ 5A SOD128 Schot...	C50603 5	JLCPCB	Extended	\$1.6115	
D9,D11,D14	LED	LED_SMD:LED_060...	19-217/GHC-YR1S2/3T 20mA 518nm Colorless transpare...	C72043 6	JLCPCB	Basic	\$0.1578	
R23,R55	17k8	Capacitor_SMD:C...	RMCF0402FT17K8 62.5mW Thick Film Resistors 50...	C77605 20	JLCPCB	Extended	\$0.0640	
U5	W25Q16JVS	Package_SO:SOIC...	W25Q16JVSSIQ SOIC-8_208mil NOR FLASH ROHS	C82317 2	JLCPCB	Extended	\$0.7174	
U8,U12	TPD4EUSB30	Package_SON:USO...	TPD4EUSB30DQAR 8V 1A (8/20us) 5.5V (Max) 7V U...	C90627 4	JLCPCB	Extended	\$2.1952	

C25,C31,C3...	10 uF 16V X7R	Capacitor_SMD:C...	CL10A106MA8NRNC 25V 10uF X5R ±20% 0603 Multil...	C96446		8	JLCPCB	Basic	\$0.1808	
J17	XT60-M	PowerIC:AMASS_X...	XT60 - Power Connectors ROHS	C98733		2	JLCPCB	Extended	\$0.5396	
U10	INA219BxD	Package_SO:SOIC...	INA219AIDR SOIC-8_150mil Current-Sensing...	C138706		2	JLCPCB	Extended	\$2.2656	
U7	TPH3R704PL	PowerIC:TRANS_T...	TPH3R704PLL1Q 40V 92A 81W 3.7mΩ@10V,46A 2.4V...	C141553		2	JLCPCB	Extended	\$1.7260	
CONN1,CONN...	SM04B-SRSS-TB(L...	RP2040:JST_SH4	SM04B-SRSS-TB(LF)(SN) 1x4P 1 SR/SZ 1mm 4 Copper Allo...	C160404		5	JLCPCB	Extended	\$0.8615	
J10	Micro_SD_Card	Connector_Card:...	472192001 Deck Clamshell SMD SD Card Co...	C164170		2	JLCPCB	Extended	\$1.0210	
J13	USB_C_Receptacl...	Connector_USB:U...	TYPE-C-31-M-12 5A 1 16 Female Type-C SMD USB...	C165948		2	JLCPCB	Extended	\$0.4266	
U2	BMM150	Package_CSP:WLC...	BMM150 WLCSP-12 Hall Sensor ROHS	C171681		2	JLCPCB	Extended	\$4.8040	
SW1	CK PCM12SMTR	Button_Switch_S...	PCM12SMTR SMD Slide Switches ROHS	C221841		2	JLCPCB	Extended	\$0.8462	
R53,R54	226K	Capacitor_SMD:C...	AC0402FR-07226KL 62.5mW Thick Film Resistors 50...	C226354		20	JLCPCB	Extended	\$0.0240	
R33,R61,R7...	8660	Capacitor_SMD:C...	AC0402FR-078K66L 62.5mW Thick Film Resistors 50...	C227261		20	JLCPCB	Extended	\$0.0200	
Q4,Q6,Q7	DMP3007SCG	Package_SON:Dio...	DMP3007SCG-7 30V 50A 6.8mΩ@10V,11.5A 2.4W 3...	C260899		6	JLCPCB	Extended	\$3.0264	
C1,C2,C3,C...	100 nF 16V X7R	Capacitor_SMD:C...	CL05B104KB54PNC 50V 100nF X7R ±10% 0402 Multi...	C307331		48	JLCPCB	Basic	\$0.3024	
S1,S2	TS-1187A-B-A-B	PowerIC:SW_TS-1...	TS-1187A-B-A-B No NO 50mA 5.1mm 100mΩ 100000 ...	C318884		4	JLCPCB	Basic	\$0.0596	
R35,R36,R7...	1180	Resistor_SMD:R...	RNCF0402BTE1K18 62.5mW Thin Film Resistor 50V ...	C346633		11	JLCPCB	Extended	\$0.8877	
R60	4.7	Capacitor_SMD:C...	AECR0402F4R70T9 63mW Thick Film Resistors 50V ...	C352412		20	JLCPCB	Extended	\$0.0360	
R47,R52	0.01 惟 3W	Resistor_SMD:R...	PA2512FKE7W0R01E 2W 10mΩ ±50ppm/°C ±1% 2512 Cur...	C375688		5	JLCPCB	Extended	\$0.4470	
C42,C43,C4...	47 uF 25V X7R	Capacitor_SMD:C...	GRM31CR61E476ME44L 25V 47uF X5R ±20% 1206 Multil...	C403725		6	JLCPCB	Extended	\$1.7820	
D5,D6,D8,D...	PTVS22VS1UR	PowerIC:TVS_PTV...	PTVS22VS1UR,115 0.1uA 400W 35.5V 24.4V 22V 26...	C553393		14	JLCPCB	Extended	\$3.2158	
U1	BMP390L/BMPxxx	PowerIC:XDCR_BM...	BMP388 LGA-10 Pressure Sensors ROHS	C779278		2	JLCPCB	Extended	\$2.3729	Inventory shortage
U9	MAX77960	PowerIC:MAX7796...	MAX77960EFV06+ FC2QFN-30(4x4) Power Manageme...	C1020018		2	My Parts	Extended	0	
L1	3.3 uH DR127-3R...	PowerIC:INDM125...	DR127-3R3-R 10.5A 3.3uH ±20% 21.5A 5.67mΩ ...	C2453799		2	My Parts	Extended	0	
U3	BMI160/BMI270	Package_LGA:Bos...	BMI270 LGA-14(2.5x3x0.5mm) Attitude ...	C2836813		2	JLCPCB	Extended	\$2.9524	
U6	TPS65987	PowerIC:TPS6598...	TPS65987DDHRSHR VQFN-56 USB ICs ROHS	C2868843		2	JLCPCB	Extended	\$10.2764	
F1,F2	Fuse Holder	Fuse:Fuseholder...	XF-508P-B Plugin Fuse Holders ROHS	C2935468		4	JLCPCB	Extended	\$1.2396	
U11	MPM54304-0002	PowerIC:MPM5430...	MPM54304GMN-0002 Buck Switching Regulator IC Po...	C9900037420		2	My Parts	Extended	0	

Please carefully check the packages of selected parts before proceeding.

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