



Core-Gerbs

PCB Bill of Materials Component Placements Quote & Order

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Top Side Total 21 parts detected 19 Parts confirmed 2 parts inventory shortage

Upload BOM/CPL

Uploaded BOM Data				Review Matched Parts					
Top Designator	Comment	Footprint	Matched Part Detail	Qty	Source	Lib Type	Total Cost	<input type="checkbox"/> Select	
C1,C2,C5,C6,C13,C...	10uF	Capacitor_SMD:...	CL10A106KP8NNNC C19702 10V 10uF X5R ±10% 0603 Multilayer Ceramic Ca...	70	JLPCPB	Basic	\$0.3920	<input type="checkbox"/>	
C3,C4,C7,C8,C15,C...	0.1uF	Capacitor_SMD:...	CC0603KRX7R9BB104 C14663 50V 100nF X7R ±10% 0603 Multilayer Ceramic C...	70	JLPCPB	Basic	\$0.1540	<input type="checkbox"/>	
C9,C10	1uF	Capacitor_SMD:...	CL21B105KBFNNE C28323 50V 1uF X7R ±10% 0805 Multilayer Ceramic Cap...	20	JLPCPB	Basic	\$0.1800	<input type="checkbox"/>	
C11	10uF	Capacitor_SMD:...	CL31A106KBHNNNE C13585 50V 10uF X5R ±10% 1206 Multilayer Ceramic Ca...	9	JLPCPB	Basic	\$0.2880	<input type="checkbox"/>	
C12	22uF	Capacitor_SMD:...	CL21A226MAQNNNE C45783 25V 22uF X5R ±20% 0805 Multilayer Ceramic Ca...	20	JLPCPB	Basic	\$0.4980	<input type="checkbox"/>	
D1	PESD12VL2BT	Package_TO_SO...	PESD12VL2BT C2936980 SOT-23(TO-236) ESD Protection Devices ROHS	9	JLPCPB	Extended	\$0.3861	<input type="checkbox"/>	
D2	PMEG3050EP...	Diode_SMD:D_S...	PMEG3050EP115 C50603 Schottky Diodes & Rectifiers PMEG3050EP/SOD...	5	JLPCPB	Extended	\$1.3960	<input type="checkbox"/>	
D3	EL0603/GHC...	LED_SMD:LED_1...	YLED0603G C19273151 25mA 510nm~531nm -40°C~+85°C Emerald 2...	20	JLPCPB	Extended	\$0.0980	<input type="checkbox"/>	
Q1,Q2,Q3,Q4,Q5,Q6	MMBT4403LT...	Package_TO_SO...	MMBT4403-TP C194857 null 350mW 100@150mA,2V 600mA PNP SOT-2...	35	JLPCPB	Extended	\$0.7980	<input type="checkbox"/>	
R1,R39,R41,R43,R...	100k	Resistor_SMD:R...	0603WAF100KTSE C22936 100mW Thick Film Resistors ±1% ±400ppm/°C ...	40	JLPCPB	Basic	\$0.0600	<input type="checkbox"/>	
R4,R40,R42,R44,R...	2k	Resistor_SMD:R...	PTFR0603B2K00N9 C394539 100mW Thin Film Resistor ±0.1% ±10ppm/°C 2k...	32	JLPCPB	Extended	\$4.5760	<input type="checkbox"/>	
R13,R14,R17,R18,...	100	Resistor_SMD:R...	CR0603F100RP05Z C881316 100mW ±100ppm/°C ±1% 100Q 0603 Chip Resi...	70	JLPCPB	Extended	\$0.1050	<input type="checkbox"/>	
R15,R19,R25,R29,...	20k	Resistor_SMD:R...	PTFR0603B20K0N9 C394533 100mW Thin Film Resistor ±0.1% ±10ppm/°C 20...	32	JLPCPB	Extended	\$4.6464	<input type="checkbox"/>	
R16,R20,R26,R30,...	8.2k	Resistor_SMD:R...	0603WAF8201T5E C25981 100mW Thick Film Resistors ±100ppm/°C ±1% ...	40	JLPCPB	Basic	\$0.0400	<input type="checkbox"/>	
R21	10k	Resistor_SMD:R...	SCR0805F10K C3016734 ±1% 10kQ 0805 Chip Resistor - Surface Mount R...	20	JLPCPB	Extended	\$0.0300	<input type="checkbox"/>	
R22	300	Resistor_SMD:R...	AECR0805F300RK9 C352224 125mW Thick Film Resistors ±100ppm/°C ±1% ...	20	JLPCPB	Extended	\$0.1600	<input type="checkbox"/>	
SW1,SW2	1825910-6	Button_Switch...	1825910-6 C428628 50mA Straight SPST 160gf 24V Plugin Tactile S...	12	JLPCPB	Extended	\$1.0332	<input type="checkbox"/>	
U9	AZ1084-3.3	Package_TO_SO...	GN1117-3.3V C7502470 SOT-223 Linear Voltage Regulators (LDO) ROHS	9	JLPCPB	Extended	\$0.3105	<input type="checkbox"/>	
U10	ESP32-S3-WR...	RF_Module:ESP...	ESP32-S3-WROOM-1-N16R2 C2913205 SMD,18x25.5mm WiFi Modules ROHS	5	JLPCPB	Extended	\$22.5075	<input type="checkbox"/>	
U7	XTSD04GLGE...	XTSD04GLGEAG...	XTSD04GLGEAG C558839 2.7V~3.6V 50MHz 4Gbit LGA-8(6x8) NAND FLA...	5	1 JLPCPB	Extended	\$4.5225	4 shortfall	
U8	74HC4050D	74HC4050D:SO...	74HC4050D C3034740 Buffer/Converter 6-CH Non-Inverting CMOS 16~...	5		Extended	\$0.00	5 shortfall	

Please carefully check the packages of selected parts before proceeding.

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