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Description	Designator	Footprint	JLCPCB Part Number	LCSC Part #	JLOPOB Part
Capacitor, Ceramic (MLCC), 22uF, ±20%,	C1	CAP-0603	C59461		
6.3V, X5R, ±20%, SMD 0603	OI .	0000	CCC-01		
Capacitor, Ceramic (MLCC), 10uF, ±20%,	CO. CUO. CO.	010 0 100	0.000		
6.3V, X5R, ±20%, SMD 0402	C2, C18, C20	CAP-0402	C15525		
Capacitor, Ceramic					
(MLOC), 1uF, ±10%, 25V, X5R, ±10%, SMD	C3, C11	CAP-0402	C52923		
0402 Capacitor, Ceramic	C4, C5, C6, C7, C8, C9,				
(MLCC), 100nF, ±10%, 50V, X7R, ±10%, SMD	C10, C12, C13, C14,	CAP-0402	C307331		
0402 Capacitor, Ceramic	C19, C21, C23, C28				
(MLCC), 30pF, ±5%, 50V, COG, ±5%, SMD	C15, C16	CAP-0603	C1658		
0603 Capacitor, Ceramic					
(MLCC), 33pF, ±5%, 50V, COG, ±5%, SMD	C17	CAP-0402	C1562		
0402					
Capacitor, Ceramic (MLCC), 2.2uF, ±20%,	C22, C27	CAP-0402	C12530		
6.3V, X5R, ±20%, SMD 0402					
Capacitor, Ceramic (MLCC), 10nF, ±10%,	C24, C29	CAP-0402	C15195		
50V, X7R, ±10%, SMD 0402	-,				
Capacitor, Ceramic (MLCC), 15pF, ±5%,	C25	CAD 0400	C1549		
50V, COG, ±5%, SMD 0402		CAP-0402	C1548		
Capacitor, Ceramic (MLCC), 100nF, ±10%,	C26, C30, C31, C32, C33, C34, C35, C36,	CAR O 400	CIECE		
16V, X7R, ±10%, SMD 0402	C37, C38, C39, C40, C41	CAP-0402	C1525		
General purpose rectifier, 1.0 A, 1 kV,	D1	DIOM4227X24M			C95872
DO-214ACSMD		DIGNAZZIZENI			CCC/2
USB - micro BUSB 2.0 Receptacle Connector 5 Position Surface	P5	EU 10110103 00011			Classes
5 Position Surface Mount, Right Angle;	P5	FCI_10118193-0001LF			C132562
Through Hole Resistor, 27Ω, ±1%,					
100mW, 75V, ±200ppm/°C, -	R1, R8	RES-0603	C25190		
55°C~+155°C, SMD 0603					
Resistor, 51kΩ, ±1%, 62.5mW, 50V,					
±100ppm/°C, - 55°C~+155°C, SMD	R2	RES-0402	C25794		
0402 Resistor, 0Ω, ±1%,					
62.5mW, 50V, ±800ppm/°C, -	R3, R4, R5, R6, R9, R36	RES.0402	C17168		
55°C~+155°C, SMD 0402	10,11,10,10,10,100	1200102	017100		
Resistor, 1kΩ, ±1%,					
62.5mW, 50V, ±100ppm/°C, -	R7, R11	RES-0402	C11702		
55°C~+155°C, SMD 0402					
Resistor, 10kΩ, ±1%, 62.5mW, 50V,					
±100ppm/°C, - 55°C~+155°C, SMD	R10	RES-0402	C25744		
0402 Resistor, 220kΩ, ±1%,					
100mW, 75V, ±100ppm/°C, -	R12	RES-0603	C22961		
55°C~+155°C, SMD 0603					
Resistor, 75Ω, ±1%, 100mW, 75V,	R13, R14, R15, R19,				
±200ppm/°C, - 55°C~+155°C, SMD	R21, R22, R23, R24, R25, R26, R27, R28	RES-0603	C4275		
0603 Resistor, 3.3kΩ, ±1%,	., .,,,				
62.5mW, 50V, ±100ppm/°C, -	R16	RES-0402	C25890		
±100ppm/°C, - 55°C~+155°C, SMD 0402			-23000		
Resistor, 100kΩ, ±1%,					
62.5mW, 50V, ±100ppm/°C, -	R17, R18, R20	RES-0402	C25741		
55°C~+155°C, SMD 0402					
SPST 50mA @ 12VDC Top Actuated Round					
Button 160gf SMD Tactile Switches RoHS	S1, S2	SW_TS-1187A-B-A-B			C318884
3.3V1ALOW					
DROPOUT VOLTAGE REGULATOR SOT-223	UI	SOT230P700X180-4N			C6186
ARM Cortex-M0+ MCU	I P	QFN40P700X700X90-			
32-Bit Microcontroller for Raspberry Pi Pico	JU2	57N			C2040
FLASH - NORMemory IC128Mb (16Mx8)					
SPI - Quad I/O, QPI,	U3	SOIC127P790X216-8N			C97521
DTR 133 MHz 8-SOIC General Purpose	14	ED DDA MOSEA \$450			C7072
Amplifier 1 Grouit Rail-to-Rail SOT-23-5		FP-DBV0005A-MFG			C7972
ACCEL2-16GI2C/SPI 16LGA	U5	FP-LGA-16-7983231- MFG			C15134
MBMSMicrophone SMD3.76x3x1.1mm	U6	Goertek_S08OB381- 026			C233789
ICM-42688-P LGA- 14(2.5x3) Attitude	U7	LGA-14_L3.0-W2.5- P0.50-TL		C1850418	
Sensor/Gyroscope 12MHz SMD Crystal		. 3.00 IL			
Resonator 20pF ±10ppm ±30ppm -	V4	X322512MSB4SI-			onore .
40°C~+85°C SMD3225- 4P Crystals ROHS	X1	Footprint-1			C9002
Yangxing Tech HS0221SRTC-3.3V					
3mA±30ppm 32.768kHz SMD2520-	X2	OSCSMD_4P-L2.5- W2.0-BL		C253914	
4P Oscillators ROHS					

Design Rules Verification ReportFilename : C:\Users\Public\Documents\Altium\Assignment 1\PCB - Assignment 1.PcbDoc

Warnings 0 Rule Violations 0

Warnings	
Total	0

Rule Violations Clearance Constraint (Gap=0.2mm) (All),(All)	n l
Clearance Constraint (Gap=0.203mm) (OnLayer('Top Layer')), (All)	0
Clearance Constraint (Gap=0.203mm) (OnLayer('Bottom Layer')), (All)	0
	0
Short-Circuit Constraint (Allowed=No) (All),(All)	- 0
Un-Routed Net Constraint ((All))	0
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=0.089mm) (Max=2.54mm) (Preferred=0.381mm) (All)	0
Routing Topology Rule(Topology=Shortest) (All)	0
Power Plane Connect Rule(Relief Connect)(Expansion=0.508mm) (Conductor Width=0.254mm) (Air Gap=0.254mm)	0
Minimum Annular Ring (Minimum=0.076mm) (All)	0
Hole Size Constraint (Min=0.2mm) (Max=6.3mm) (All)	0
Hole To Hole Clearance (Gap=0.254mm) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.1mm) (All), (All)	0
Silk To Solder Mask (Clearance=0.1mm) (IsPad),(All)	0
Silk to Silk (Clearance=0.1mm) (All),(All)	0
Net Antennae (Tolerance=0mm) (All)	0
Board Clearance Constraint (Gap=0mm) (All)	0
Height Constraint (Min=0mm) (Max=25.4mm) (Prefered=12.7mm) (All)	0
Total	0