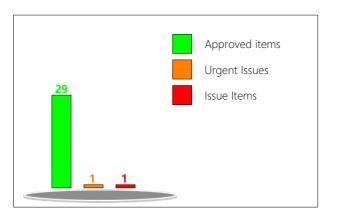


HQDFM Design for Manufacture(DFM) Report

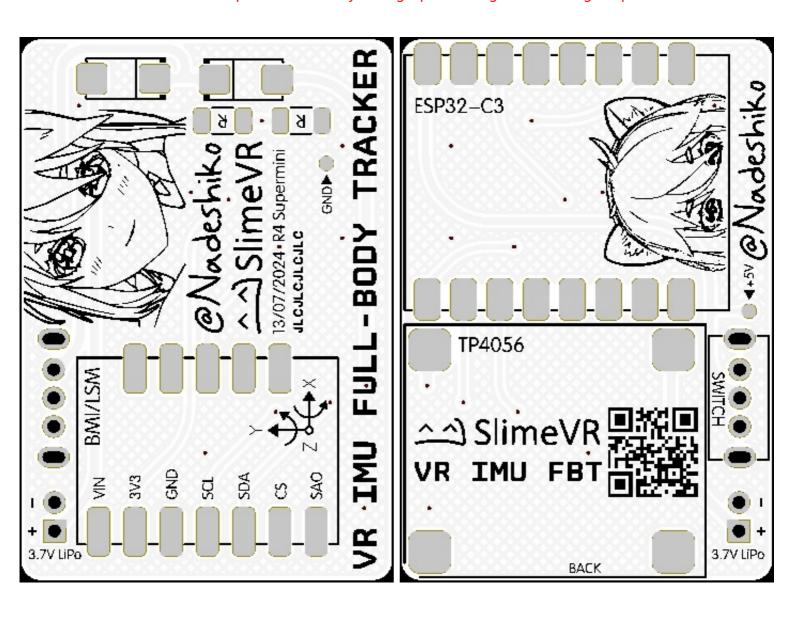
File name: 2024-07-13

Time: 2024-07-13Layer count:2 PCB Thickness: 1.60 Quantity: 5 mm



	Trace Width/Spacing	10.00/10.00mil+
	Milling Density	132.8730m/m²
Basic Board Specs	Surface Finish Area	27.51%
	Test Point Count	49

The file size is small, which can affect the surface mount assembly process. It is recommended to have a size larger than 7*7cm. You can optimize the size by adding a process edge or increasing the panelization.



Туре	Category	No. of Checks	Result
	Open/Shorts (IPC)	1	Fail
	Signal Integrity	4	Pass
	Smallest Trace Width	1	Pass 2
	Smallest Trace Spacing	3	Pass
	SMD Pad Spacing	1	Pass
PCB Trace Analysis	Pad Size	3	Pass 2
	Hatched Copper Pour	2	Pass 2
	Annular Ring Size	2	Pass 2
	Drill to Copper	5	Pass 37
	Copper-to-Board Edge	2	Pass 37
	Holes on SMD Pads	4	Pass
	Drill Diameter	8	Pass 12 , Fail 1
	Drill Spacing	4	Pass
DCD D :III: A . I .	Drill to Board Edge	4	Pass
PCB Drilling Analysis	Drill Hole Density	1	Pass
	Special Drill Holes	2	Pass
	Drill Hole Errors	3	Pass
	Solder Mask Dam	2	Pass
PCB Solder Mask Analysis	Missing SMask Opening	1	Pass
	Solder Paste Area	1	Pass
PCB Silk Analysis	Silkscreen Spacing	1	Pass

	Component Spacing	1	Fail	
	Compto-Board-Edge	3	Fail	
	Componet Silkscreen Spacing	0	Fail	
PCBA Component Analysis	Pad Count Mismatch	2	Fail	
	Designator Length 0		Fail	
	Double-sided Components	1	Pass	
	ComponentClearanceAnalysi	1	Pass	
	Pin-to-SMD Pad	7	Fail	
PCBA Pin Analysis	Through-hole Pins	9	Fail	
	Pressfit Pins	4	Fail	
DCDA Dad Analysis	Chip Pad	60	Fail	
PCBA Pad Analysis	Pad-Trace Connections	4	Pass 37	
DCDA Fiducial Analysis	Fiducial Count	1	Fail	
PCBA Fiducial Analysis	Fiducial Analysis	3	Pass	

ID	Check	Limits	Value	Issue	Image	Position	Qty	Level
1	Drill Diameter_S Iot Aspect Ratio		0.30 mm	Slots with aspect ratio of 2.00 were detected in your design. This could increase the risk of incomplete drilling of the slot, which decrease manufacturing efficiency and yield, and affect the reliability of the boards. The ratio should be increased to at least 2:1		6.30,11.48	1	Warnin g