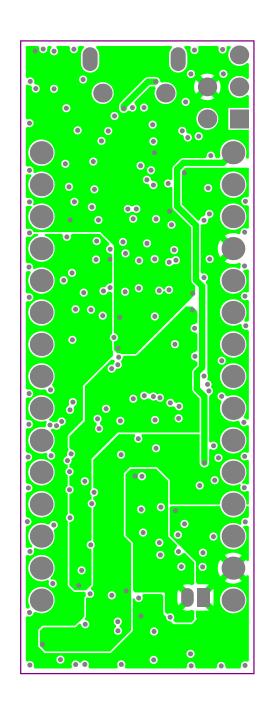


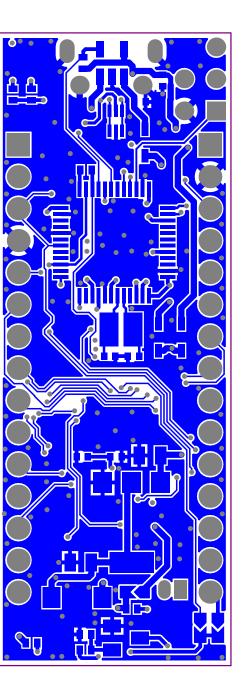
Inner 1

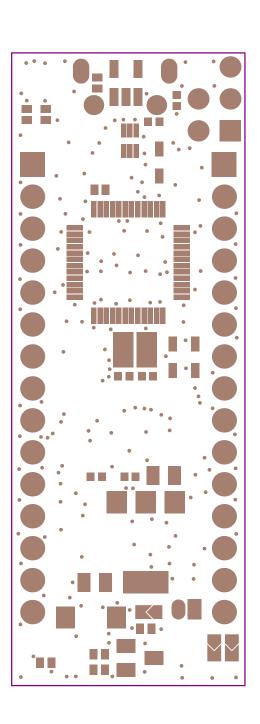
.G1

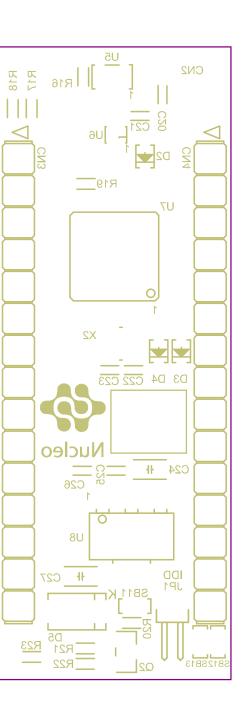


Inner 2

.G2







PC	B SPECIFICATIONS :				
A.	MATERIAL:	FR-4	☐ TG-170	X TG-150	☐ TG-140
B.	MATERIAL FAMILY:	N/A			
C.	SOLDERMASK COLOR:	GREEN	X WHITE	RED	BLACK
D.	SILKSCREEN COLOR:	□ WHITE	YELLOW	BLACK	X Blue ink PANTONE 2955
E.	SURFACE FINISH:	X ENIG	☐ IMMERSIO	N SILVER	☐ IMMERSION TIN
		HASL	☐ HASL (PB-I	FREE)	☐ GOLDEN FINGER
F.	IMPEDANCE CONTROL:	NO	X YES (SEE	<b>IMPEDANCE</b>	E TABLE FOR DETAIL INFORMATION)
G.	THROUGH VIA:		/IAS WHICH AF	RE COVEREI	O WITH SOLDERMASK ONE OR TWO SIDE.
		<b>PLUG MATE</b>	RIAL: X SOI	_DERMASK	■ NON-CONDUCTIVE EPOXY.
Η.	STACK-UP:	SEE LAYER	STACK-UP SE	QUENCE FO	OR OVERALL THICKNESS.

PCB: TYPE 3	
ASPECT-RATIO, AXE Z :	
6:1 to 8:1 LEVEL "B"	
MINIMUM PARAMETERS	
DEFAULT TRACKS: 0.127mm GAPS: 0.127mm	

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Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.015mm	3.5	
3	Top Layer	Copper	0.035mm		
4	Dielectric 1	FR-4	0.254mm	4.2	
5	Inner 1	Copper	0.036mm		
6	Dielectric 3		0.927mm	4.2	
7	Inner 2	Copper	0.036mm		
8	Dielectric 2		0.254mm	4.2	
9	Bottom Layer	Copper	O.035mm		
10	Bottom Solder	Solder Resist	O.015mm	3.5	
11	Bottom Overlay				

IMPEDANCE TABLE USB FS STLINK										
LAYER	TRACE (mm)	SPACING (mm)	IMPEDANCE (Single ended)	IMPEDANCE (Differential)	TOL.					
TOP	0.155	0.226	n/a	90 ohm	+/- 15%					
LAYER 1	0.130	0.251	n/a	90 ohm	+/- 15%					

Symbol	Count	Hole Size	Plated	Hole Type	Drill Layer Pair	Via/Pad	Pad Shape	Template	Description	Hole Tolerance (+)	Hole Tolerance (-)	Hole Length	Routed Path Length
$\nabla$	2	0.60mm (23.62mil)	PTH	Slot	Top Layer - Bottom Layer	Pad	Rounded	r190_120h60_130r100m195_125				1.30mm (51.18mil)	0.70mm (27.56mil)
❖	2	0.80mm (31.50mil)	PTH	Round	Top Layer - Bottom Layer	Pad	(Mixed)	(Mixed)				-	-
0	7	0.90mm (35.43mil)	PTH	Round	Top Layer - Bottom Layer	Pad	(Mixed)	(Mixed)				-	-
	30	1.10mm (43.31mil)	PTH	Round	Top Layer - Bottom Layer	Pad	Rounded	(Mixed)				-	-
×	195	0.20mm (7.87mil)	PTH	Round	Top Layer - Bottom Layer	Via	Rounded	v40h20				-	-
	236 Total												

Slot definitions: Routed Path Length = Calculated from tool start centre position to tool end centre position.

Hole Length = Routed Path Length + Tool Size = Slot length as defined in the PCB layout