

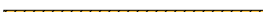




Rigid-Flex Layer stack

Layer Stack Legend


Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
	Surface Material	0.02mm	Solder Resist	Solder Mask	GTS
	Copper	0.04mm		Signal	GTL
Prepreg		0.25mm	FR4 HTG	Dielectric	
Prepreg		0.07mm	1080	Dielectric	
CF-004	Layer 1	0.02mm		Signal	G1
Core		0.05mm	Polyimide	Dielectric	
CF-004	Layer 2	0.02mm		Signal	G2
Prepreg		0.07mm	1080	Dielectric	
Prepreg		0.25mm	FR4 HTG	Dielectric	
Copper	Bottom Layer	0.04mm		Signal	GBL
	Surface Material	0.02mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 0.84mm					

Layer Stack Legend

	Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Surface Material	Flex stack Top Coverlay	0.04mm	FC-001	Solder Mask	GCT2
	CF-004	Layer 1	0.02mm		Signal	G1
	Core		0.05mm	Polyimide	Dielectric	
	CF-004	Layer 2	0.02mm		Signal	G2
	Surface Material	Flex stack Bottom Coverlay	0.04mm	FC-001	Solder Mask	GCB2
Total thickness: 0.16mm						

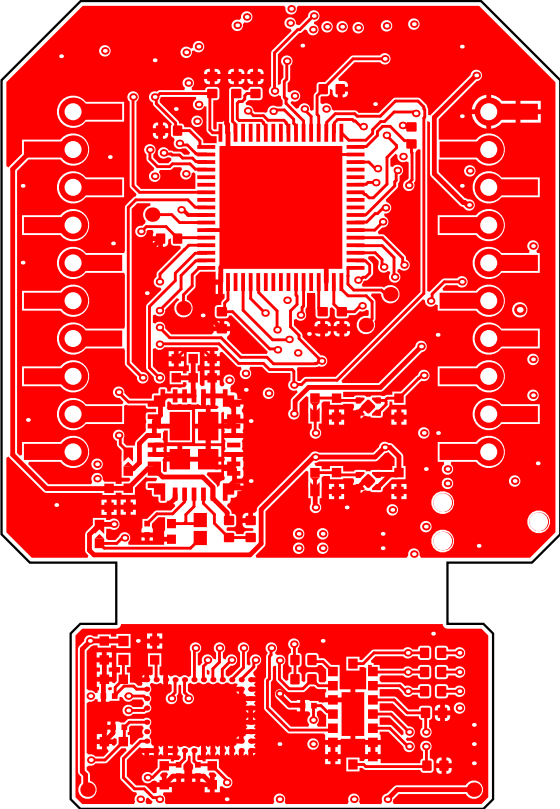
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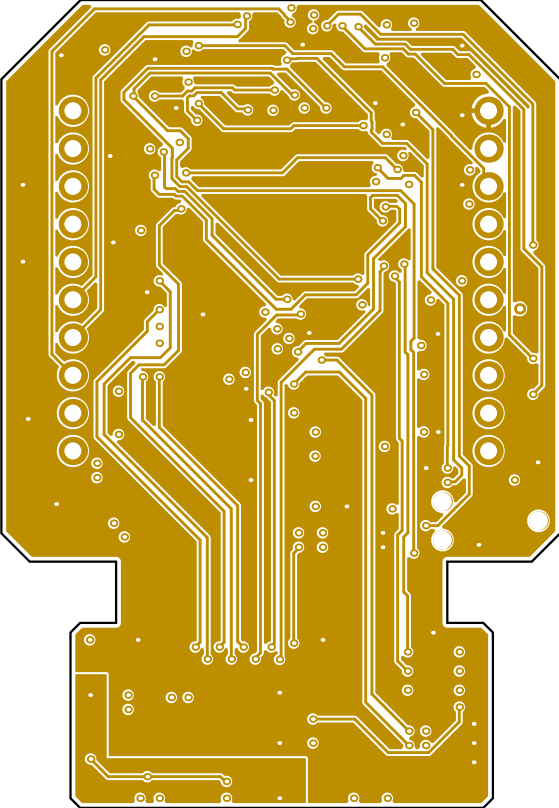
R			UNLESS OTHERWISE SPECIFIED:		NAME	DATE				
			DIMENSIONS ARE IN INCHES	DRAWN	P. Hupertz	10-May-24	TITLE <div>RadToF V1</div>			
			TOLERANCES:	CHECKED						
			FRACTIONAL±	ENG APPR.						
			ANGULAR: MACH± BEND ±	MFG APPR.						
			TWO PLACE DECIMAL ±	Q.A.						
			THREE PLACE DECIMAL ±	COMMENTS:			SIZE	DWG. NO.		
			INTERPRET GEOMETRIC TOLERANCING PER:							
		MATERIAL								
	NEXT ASSY	USED ON	FINISH							
	APPLICATION		DO NOT SCALE DRAWING	SCALE: 1:1		WEIGHT:		SHEET 2 OF 4		

Layer print

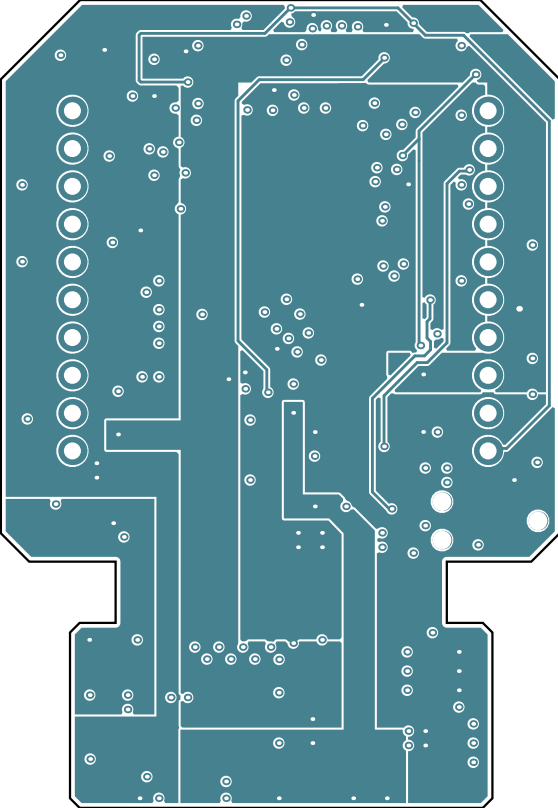
Top Layer (Scale: 5:2)



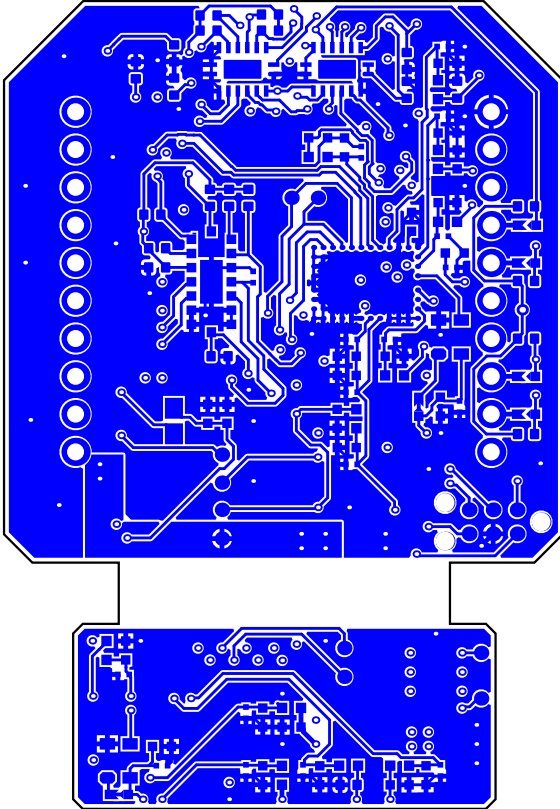
Layer 1 (Scale: 5:2)



Layer 2 (Scale: 5:2)

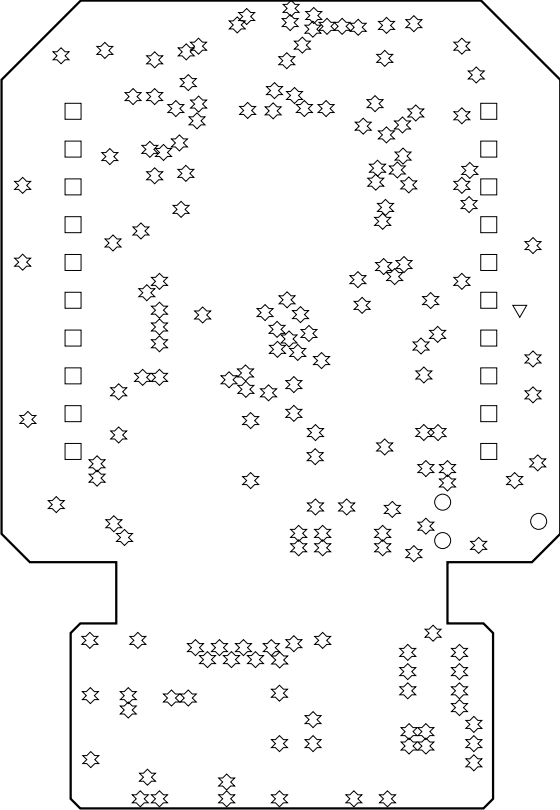


Bottom Layer (Scale: 5:2)



Drill guide

Drill Drawing View



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
□	20	0.90	Plated	
○	3	0.99	Non-Plated	
▽	1	0.30	Plated	
☆	173	0.20	Plated	

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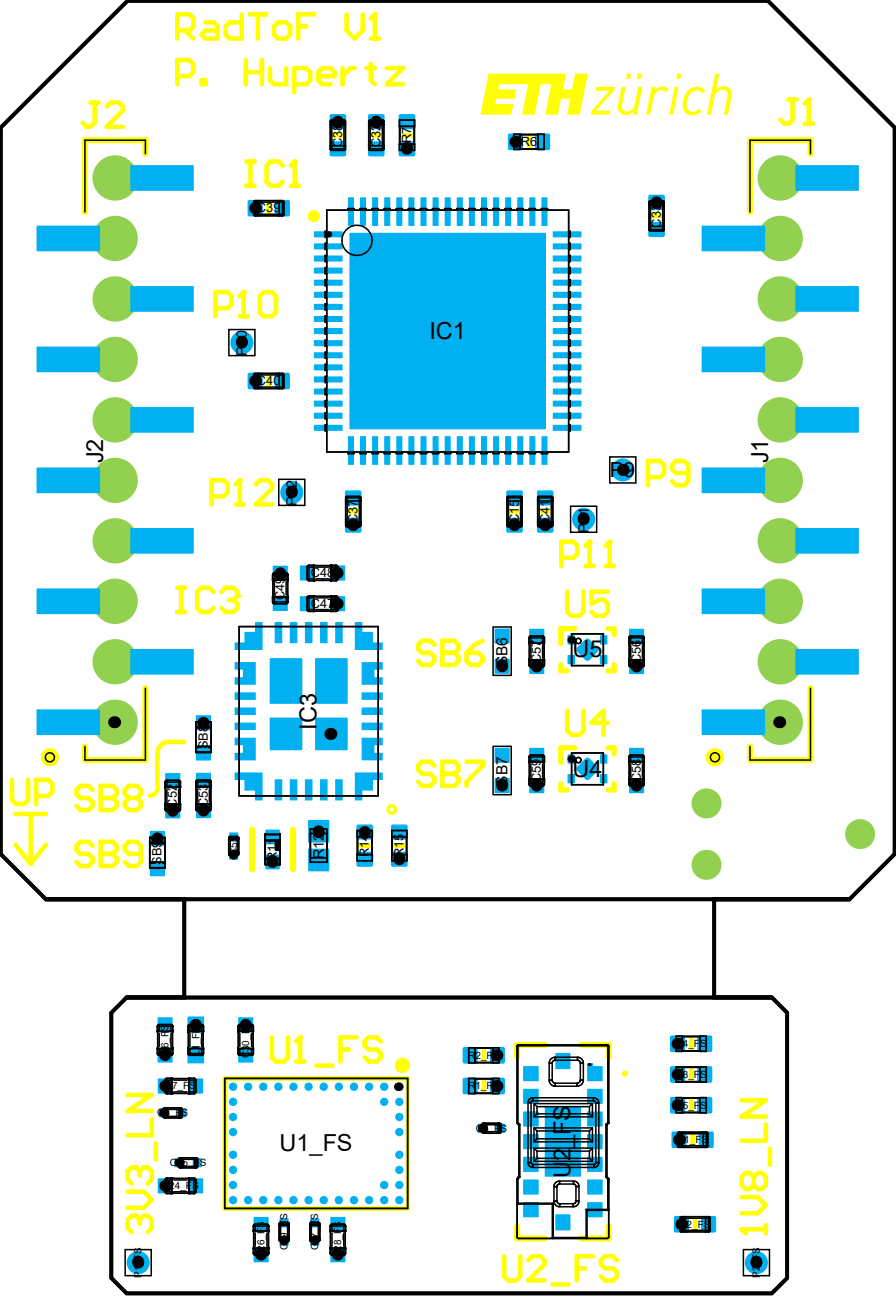
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		TWO PLACE DECIMAL ±				TITLE			
		THREE PLACE DECIMAL ±							
		INTERPRET GEOMETRIC	Q.A.			TITLE			
		TOLERANCING PER:	COMMENTS:						
		MATERIAL				SIZE	DWG. NO.		
NEXT ASSY	USED ON	FINISH							
APPLICATION		DO NOT SCALE DRAWING							
						SCALE: 1:1	WEIGHT:	SHEET 3 OF 4	

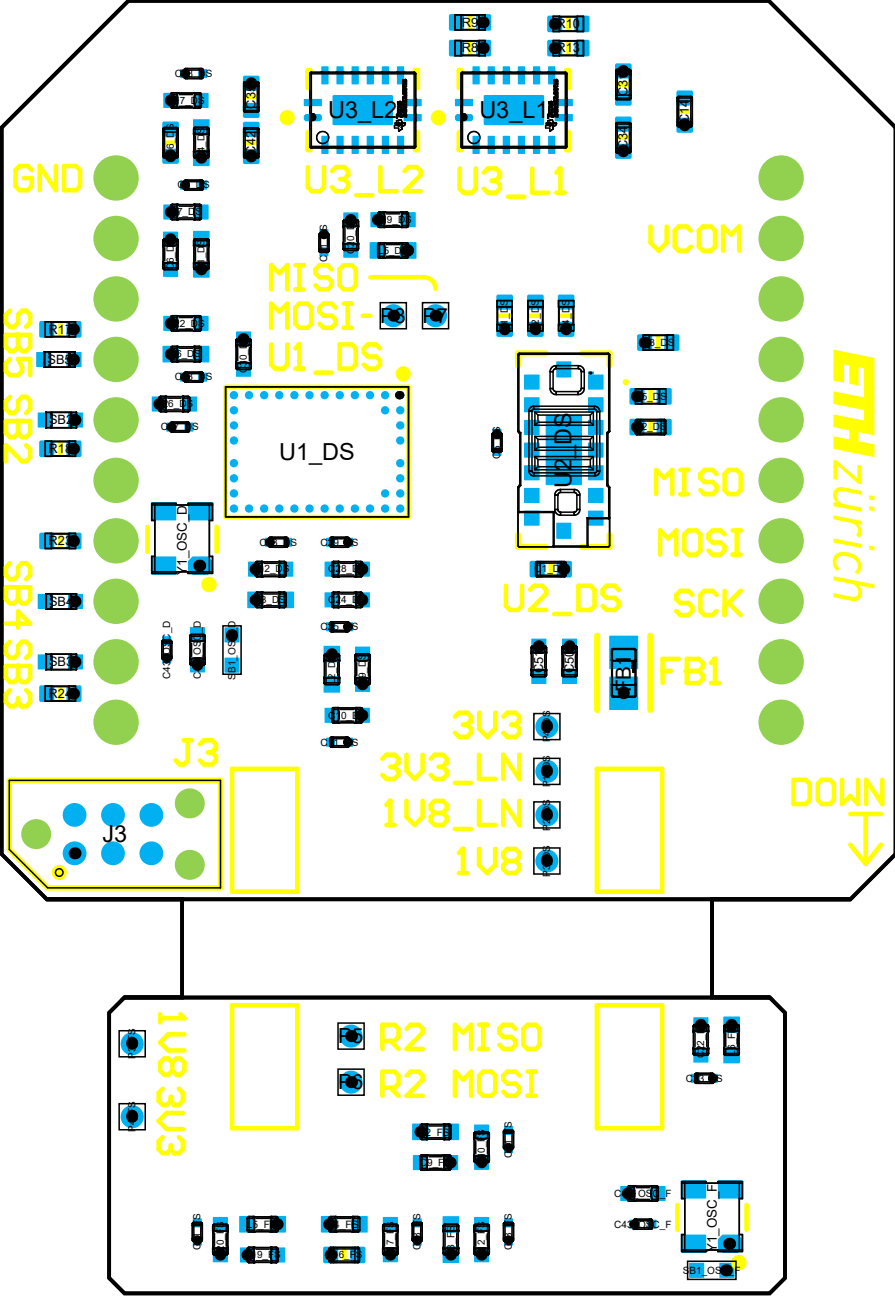
Bill Of Materials

Line #	Designator	Name	Quantity
	C1_DS, C1_FS, C2_DS, C2_FS, C14, C16_DS, C16_FS, C31, C33, C34, C35, C37, C38, C39, C40, C41, C42	Capacitor 100nF +/-20% 50V 0402	17
	C5_DS, C5_FS	C_GRM035R60J475ME15D	2
	C6_DS, C6_FS, C9_DS, C9_FS, C10_DS, C10_FS, C17_DS, C17_FS, C19_DS, C19_FS, C52, C53	C_GRM155R61A106ME11D	12
	C7_DS, C7_FS, C12_DS, C12_FS, C20_DS, C20_FS, C22_DS, C22_FS, C24_DS, C24_FS, C26_DS, C26_FS, C28_DS, C28_FS, C42_OSC_D, C42_OSC_F, C56, C57, C58, C59	C_GRM155R61E105KA12J	20
	C8_DS, C8_FS, C11_DS, C11_FS, C13_DS, C13_FS, C18_DS, C18_FS, C21_DS, C21_FS, C23_DS, C23_FS, C25_DS, C25_FS, C27_DS, C27_FS, C29_DS, C29_FS, C43_OSC_D, C43_OSC_F	C_GRM033R70J103JA01D	20
	C15, C32	Capacitor 2,2µF +/-20% 10V 0402	2
	C30_DS, C30_FS	C_GRM155R71H152JA01D	2
	C47, C48, C49, C50, C51	C_GRM158R60J226ME01D	5
	C55	C_GRT033C80J224KE01D	1
	FB1	BLE18PS080SN1D	1
	IC1	STM32H562RIV6	1
	IC3	TPSM82912RDUR	1
	J1	Left	1
	J2	Right	1
	J3	TC2030-MCP-NL	1
	L1_DS, L1_FS, L2_DS, L2_FS, L3_DS, L3_FS, L4_DS, L4_FS, L5_DS, L5_FS, L6_DS, L6_FS	L_LQG15WZ4N7B02D	12
	P1_DS, P1_FS, P2_DS, P2_FS, P3_DS, P3_FS, P4_DS, P4_FS	Test Pad	8
	P5, P6, P7, P8, P9, P10, P11, P12		8
	R1_DS, R1_FS, R2_DS, R2_FS, R3_DS, R3_FS, R4_DS, R4_FS, R5_DS, R5_FS, R6	Resistor 47K5 +/-1 % 0402 63 mW	11
	R7	Resistor 10K +/-1 % 0402 63 mW	1
	R8, R9, R10, R13, R17, R18, R23, R24	301KR2F	8
	R11	RG1005P-4871-B-T5	1
	R12	Resistor 15k +/-1% 0402 63 mW	1
	R14, R15	Jumper 0402	2
	SB1_OSC_D, SB1_OSC_F, SB6, SB7	SB2_0402_close	4
	SB2, SB3, SB4, SB5, SB8, SB9	SB2_0402	6
	U1_DS, U1_FS	BGT60TR13D	2
	U2_DS, U2_FS	VL53L8CXV0GC	2
	U3_L1, U3_L2	SN74AXC4T774BQB	2
	U4, U5	TPS7A2018PDQNR	2
	Y1_OSC_D, Y1_OSC_F	KC2016Z40.0000C1KX00	2

View from Top side (Scale 4:1)



View from Bottom side (Scale 4:1)



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		MATERIAL					
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