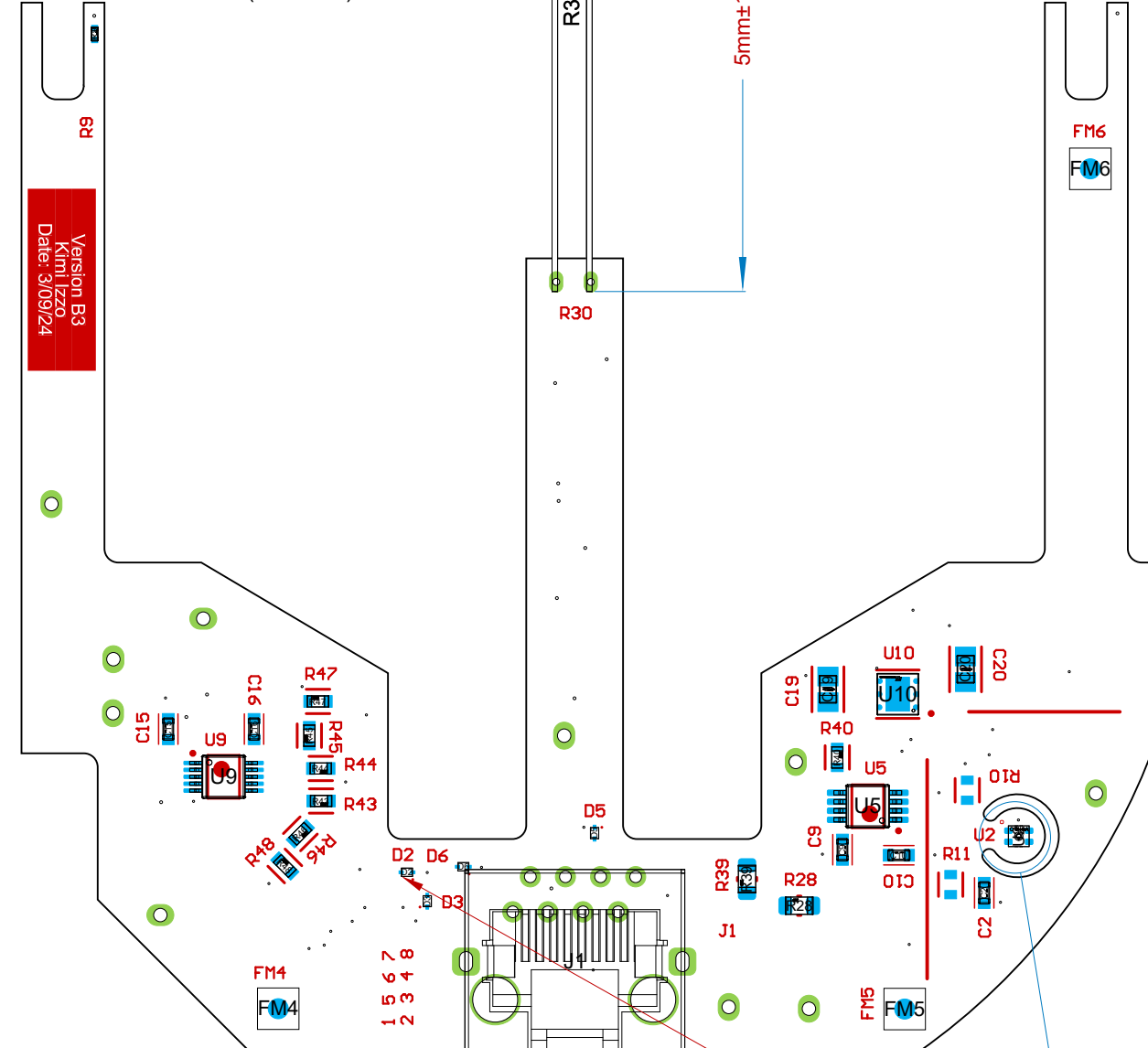
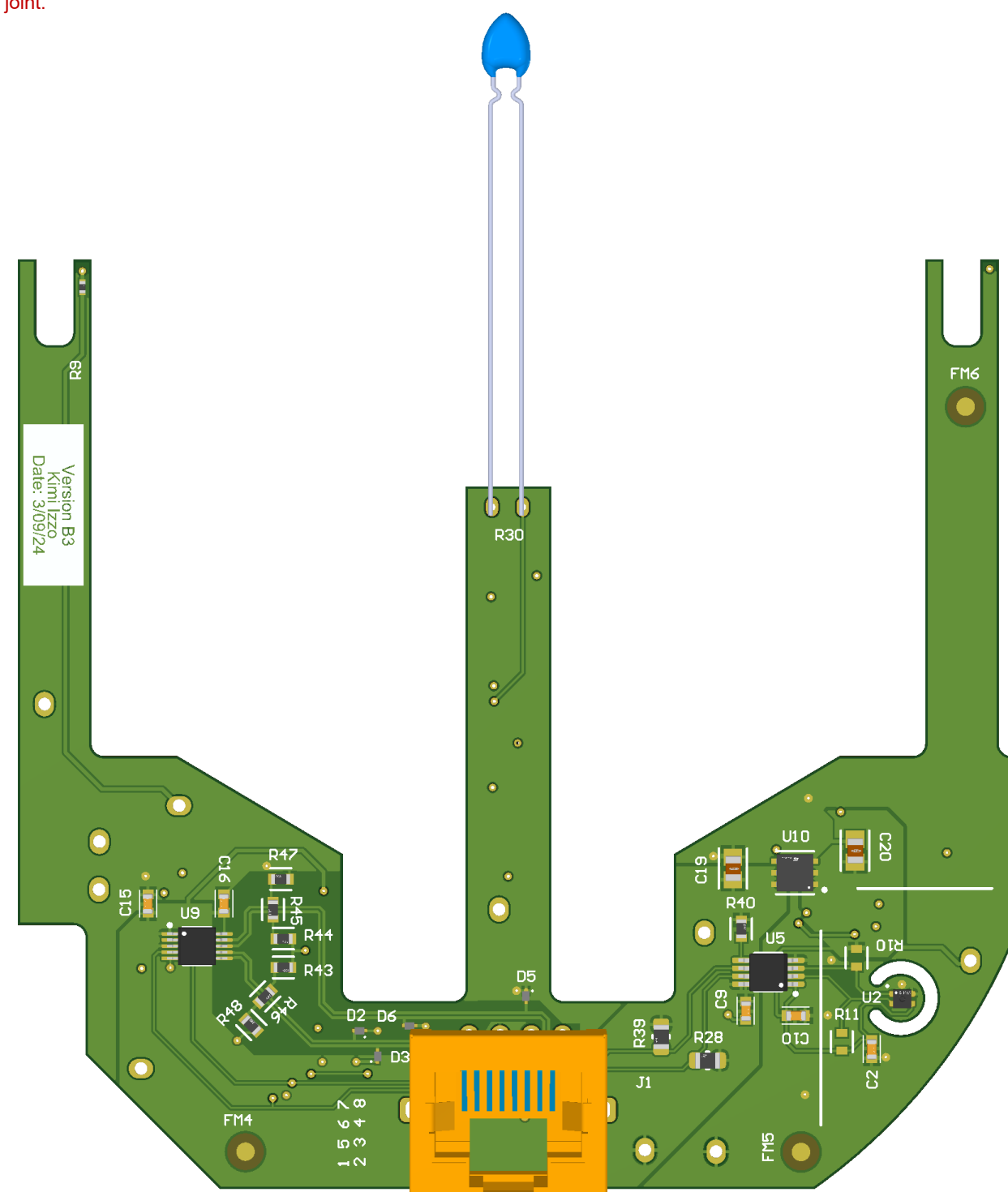


View from Bottom side (Scale 2:1)

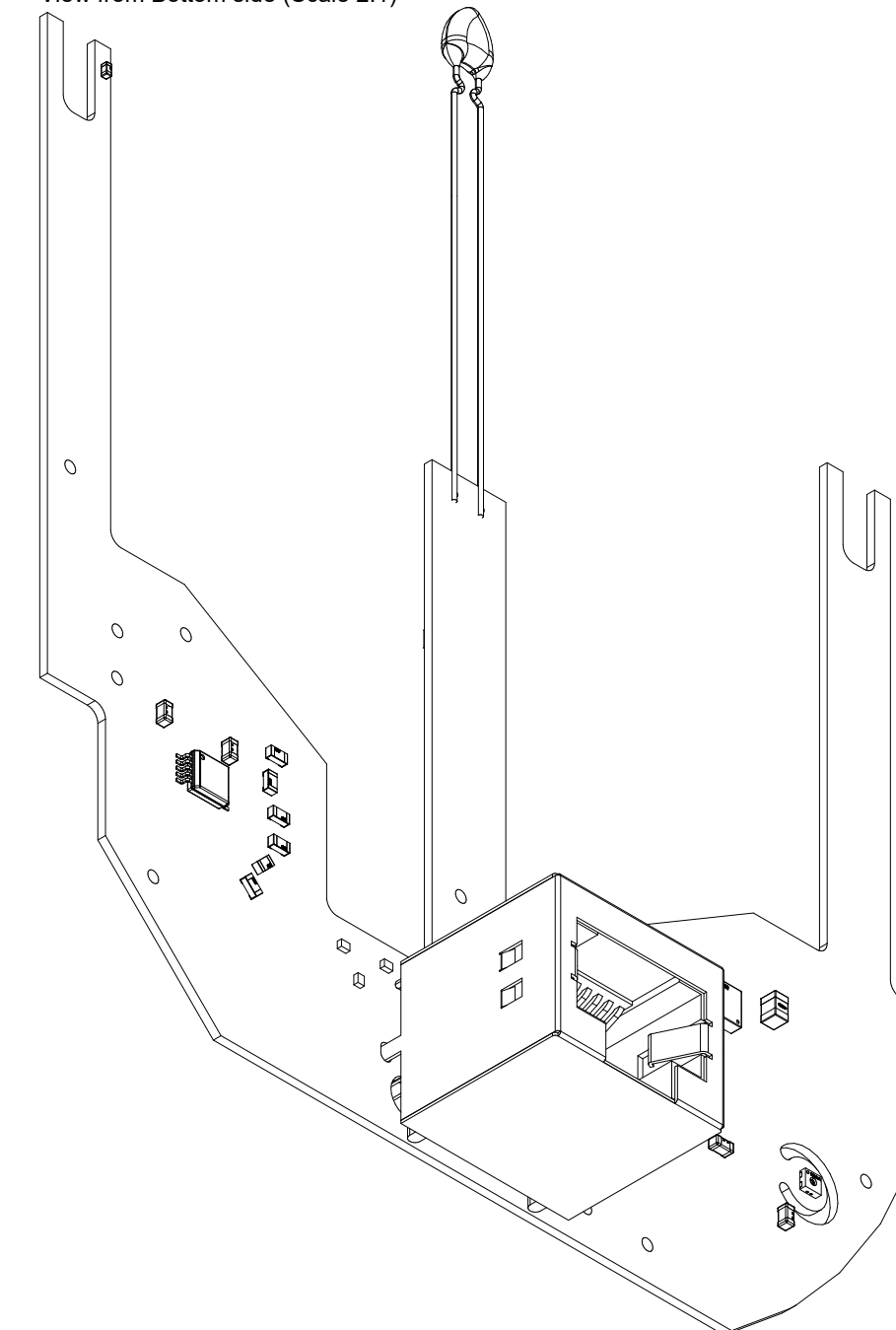


- Component R30 assembly note - this is a through hole component.
- Please solder up to 5mm of lead length +/-20% and cut wire ends off at solder joint.

Realistic View



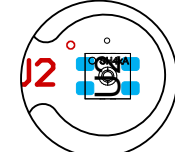
View from Bottom side (Scale 2:1)



- A - SHT4 Sensor soldering instructions

For diodes D2,D3,D5 ,D6 - easiest to solder these on before the ethernet connector J1

DETAIL A - SHT4 Sensor soldering instructions (Scale 4:1)



This is a sensitive part, follow soldering instructions as per screenshot, see https://sensirion.com/media/documents/6D95AA80/66E4458D/HT_Handling_Instructions_SHTxx.pdf for more details on handling instructions

2 Assembly

The sensors can be soldered using standard reflow soldering ovens. They are designed to withstand the soldering process, including the profile according to IPC/JEDEC J-STD-020 with peak temperatures at 260 °C for up to 30 seconds during Pb-free assembly in IR/Convection reflow ovens (see **Figure 1**).³

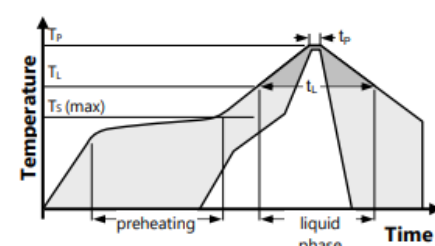
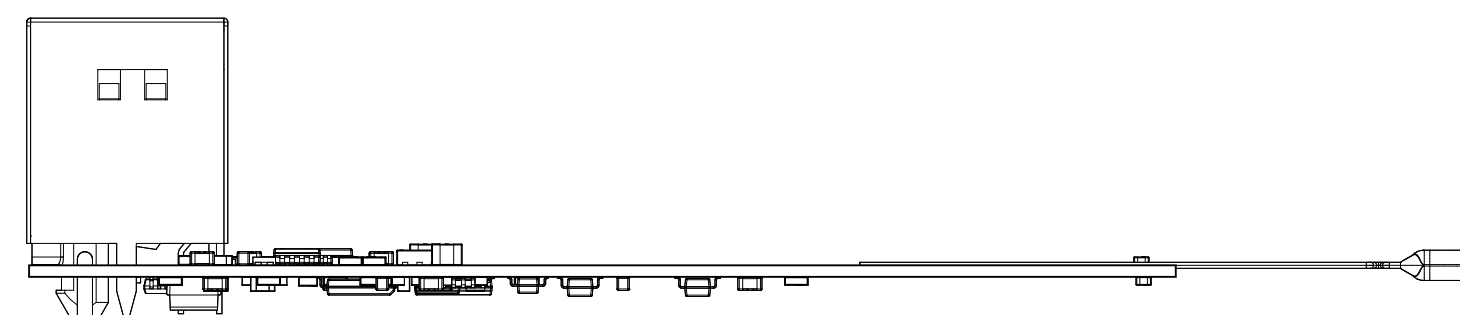


Figure 1. Soldering profile according to JEDEC standard. $T_p \leq 260^\circ\text{C}$ and $t_p \leq 30$ sec above 255°C for Pb-free assembly. $T_L < 220^\circ\text{C}$ and $t_L < 150$ sec. Ramp-up rate $< 3^\circ\text{C}$ and ramp-down rate $< 6^\circ\text{C/sec}$ for temperatures $> T_L$.

View from Left side (Scale 2:1)



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			DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ±		DRAWN	13-Nov-24				
			ANGULAR: MACH± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		CHECKED		TITLE			
			INTERPRET GEOMETRIC TOLERANCING PER:		ENG APPR.					
			MATERIAL		MFG APPR.	SAMBA	PCB REMOTE REV B3 ASSEMBLY DRAWING - PILOT RUN			
					Q.A.					
			FINISH		COMMENTS:					
		NEXT ASSY	USED ON				SIZE	DWG. NO.		
APPLICATION		DO NOT SCALE DRAWING		SCALE: 1:1		WEIGHT:		SHEET 1 OF 2		

1

2

3

4

A

B

C

D

E

F

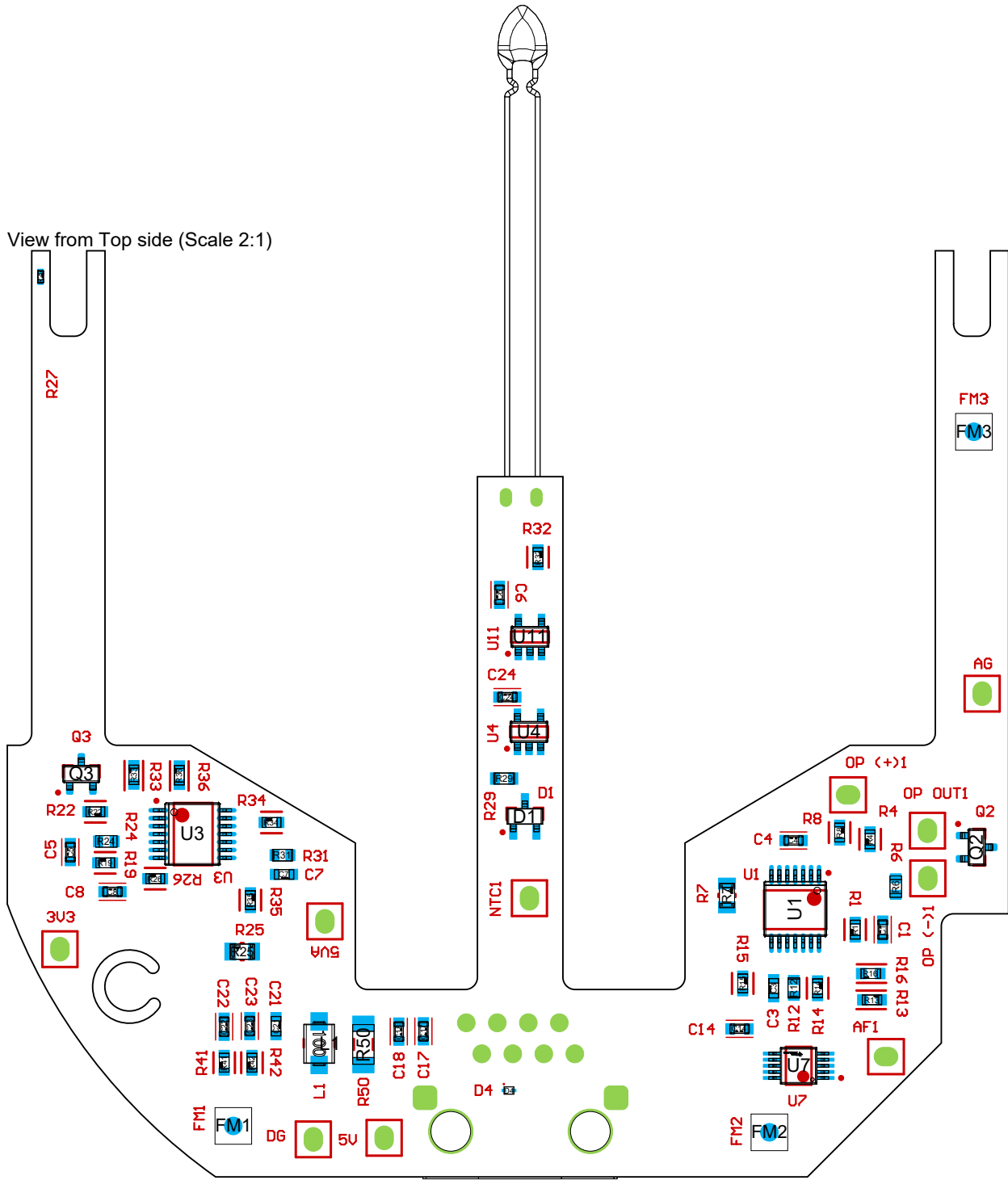
1

2

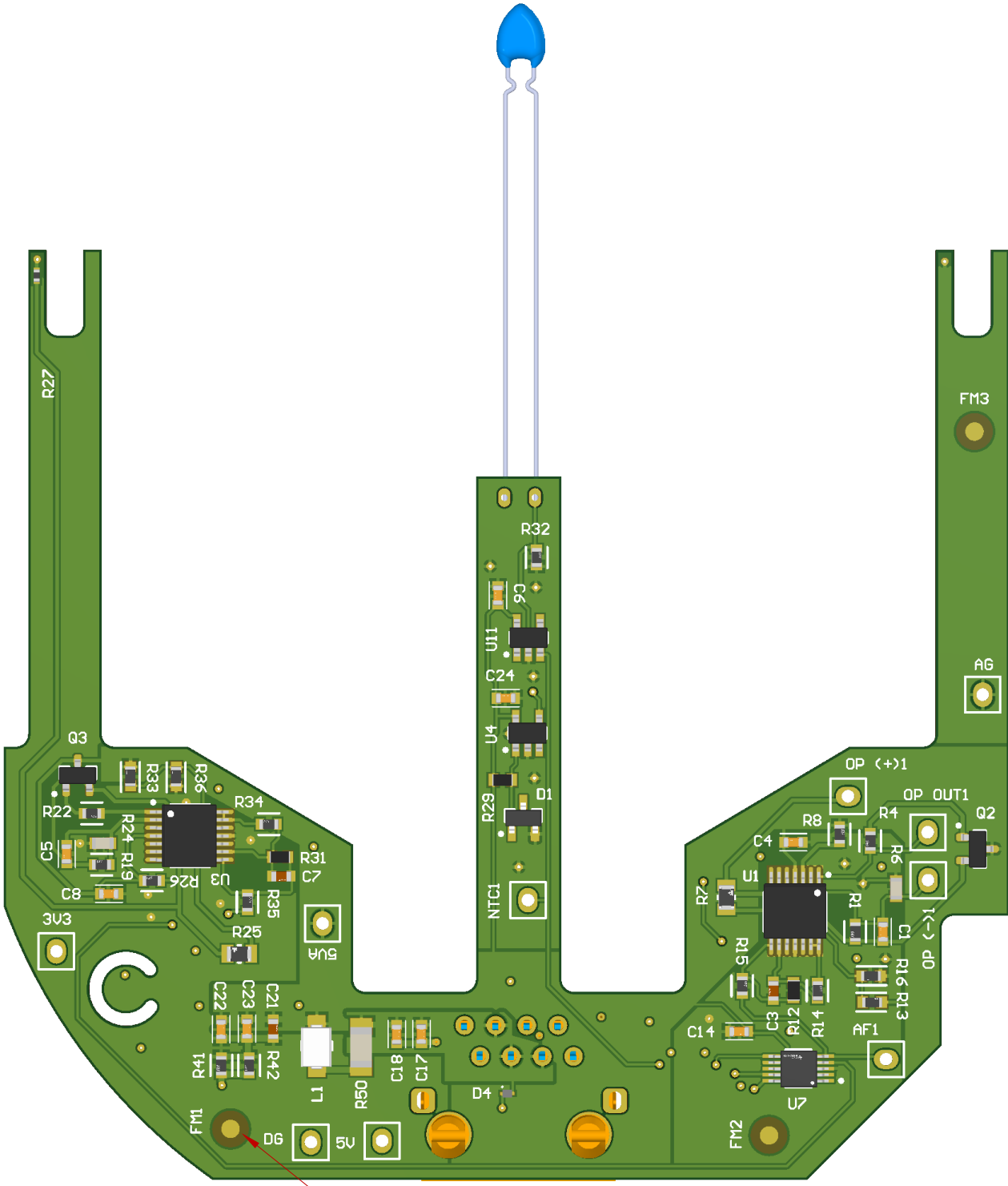
3

4

View from Top side (Scale 2:1)



Realistic View



FM1, FM2, FM3, FM4, FM5, FM6 are fiducial markers

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE			
		DIMENSIONS ARE IN INCHES	DRAWN		13-Nov-24			
		TOLERANCES:	CHECKED			TITLE		
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.			SAMBAPCB REMOTE REV B3 ASSEMBLY DRAWING - PILOT RUN		
		TWO PLACE DECIMAL ±	Q.A.					
		THREE PLACE DECIMAL ±	COMMENTS:			SIZE	DWG. NO.	
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:1	WEIGHT:	SHEET 2 OF 2
		MATERIAL						
		FINISH						
	NEXT ASSY	USED ON						
	APPLICATION							
		DO NOT SCALE DRAWING						