

A

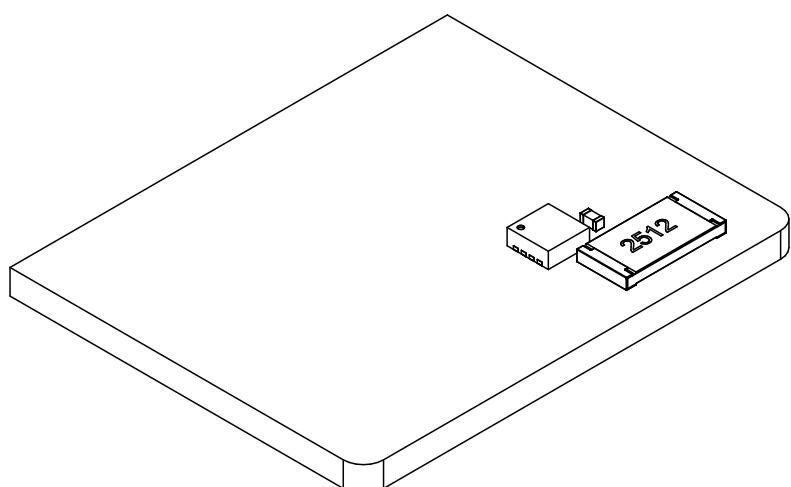
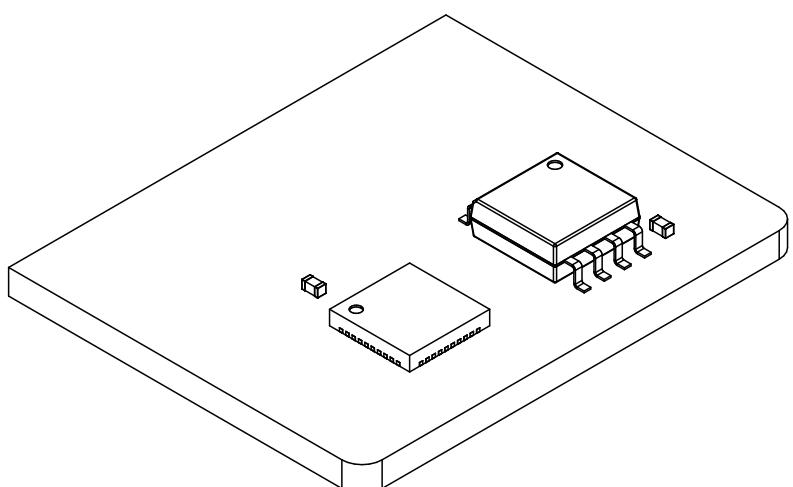
B

C

D

E

# ESP32C6\_CPA\_Cartridge (2.0)



<b>Project</b>	ESP32C6_CPA_Cartridge
<b>Revision</b>	2.0
<b>Date</b>	16/12/2023
Sheet 1 out of 5	
	<a href="http://courk.cc">courk.cc</a>
<small> This work is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.</small>	

A

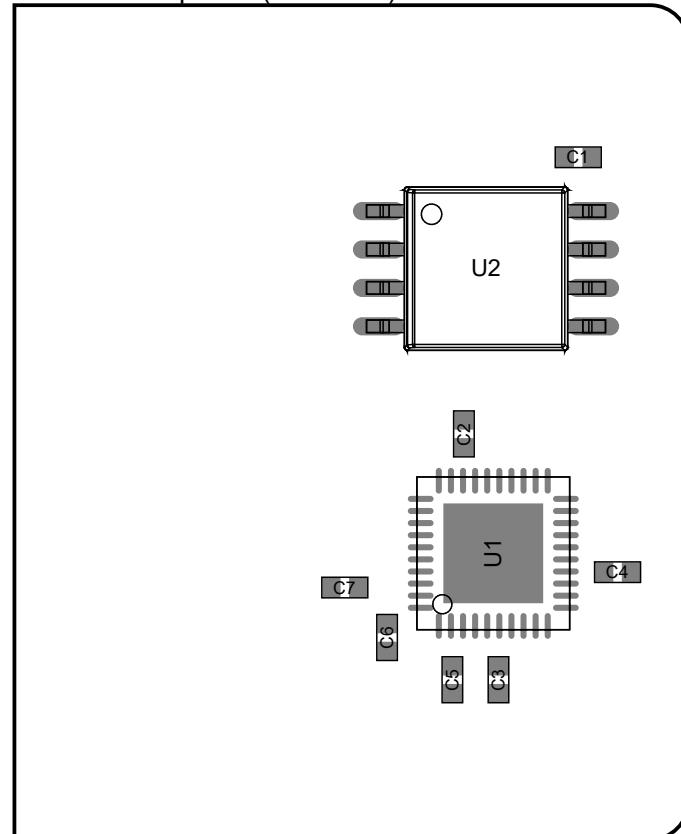
B

C

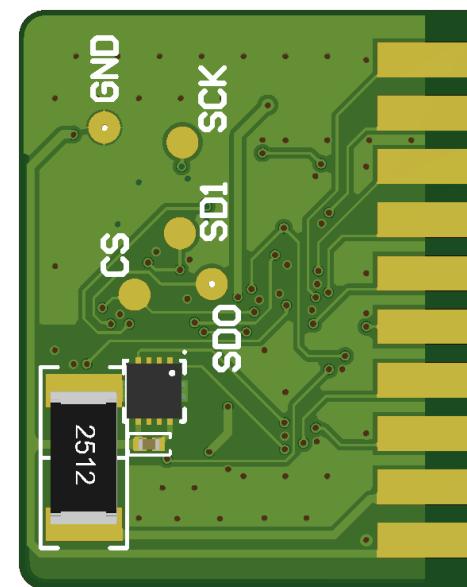
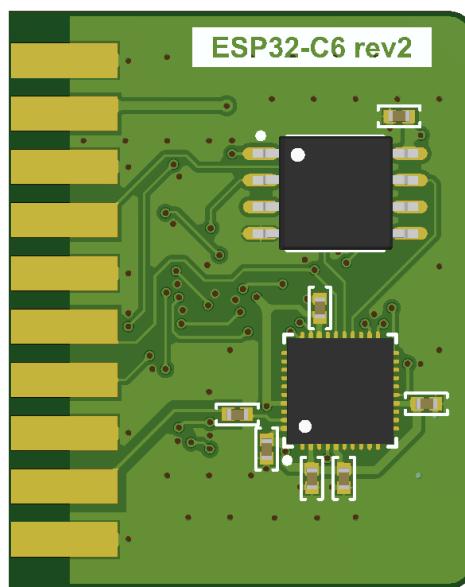
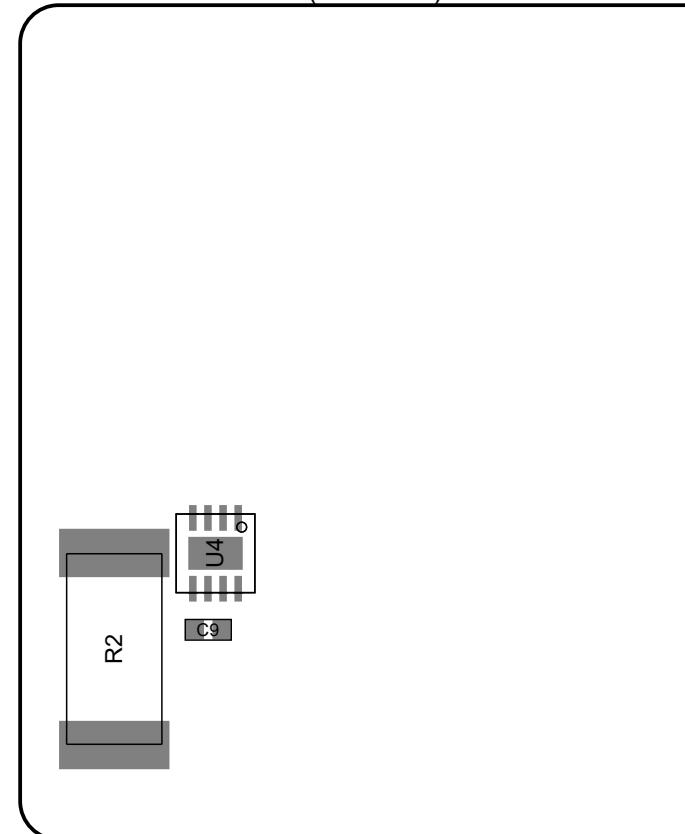
D

E

View from Top side (Scale 4:1)



View from Bottom side (Scale 4:1)



<b>Project</b>	ESP32C6_CP A_Cartridge
<b>Revision</b>	2.0
<b>Date</b>	16/12/2023
Sheet 2 out of 5	
	<a href="http://courk.cc">courk.cc</a>
<small>  This work is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.         </small>	

1

1

**Bill Of Materials**

Line #	Designator	Quantity	Footprint	Tolerance	Value	Manufacturer	Material	Part Name
1	C1, C9	2	C0402	±10%	100nF	Samsung Electro-Mechanics	X7R	C1525
2	C7	1	C0402	±10%	10nF	Samsung Electro-Mechanics	X7R	C15195
3	R2	1	R2512	5%	30	FOJAN		FRC2512J300 TS
4	U1	1	QFN40P500X500X90_HS-41N			Espressif		ESP32-C6
5	U2	1	SOIC127P790X216-8N			Winbond		W25Q32JVSSIQS
6	U4	1	SON50P250X100_HS-9N			Sensirion		STS35-DIS

2

2

3

3

4

4

<b>Project</b>	ESP32C6_CP_A_Cartridge
<b>Revision</b>	2.0
<b>Date</b>	16/12/2023
Sheet 3 out of 5	
	<a href="http://courk.cc">courk.cc</a>
	This work is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.

### Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
Top Overlay				Legend	GTO
Surface Material	Top Solder	0.020mm	Solder Resist	Solder Mask	GTS
Copper	<b>Top Layer</b>	<b>0.035mm</b>		<b>Signal</b>	<b>GTL</b>
Prepreg		0.099mm	PP-006	<i>Dielectric</i>	
CF-004	<b>Layer 1</b>	<b>0.015mm</b>		<b>Internal Plane GP1</b>	
		1.265mm	FR-4	<i>Dielectric</i>	
CF-004	<b>Layer 2</b>	<b>0.015mm</b>		<b>Internal Plane GP2</b>	
Prepreg		0.099mm	PP-006	<i>Dielectric</i>	
Copper	<b>Bottom Layer</b>	<b>0.035mm</b>		<b>Signal</b>	<b>GBL</b>
Surface Material	Bottom Solder	0.020mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 1.604mm					

<b>Project</b>	ESP32C6_CP A_Cartridge
<b>Revision</b>	2.0
<b>Date</b>	16/12/2023
Sheet 4 out of 5	
	<b>courk.cc</b>
 This work is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.	

A

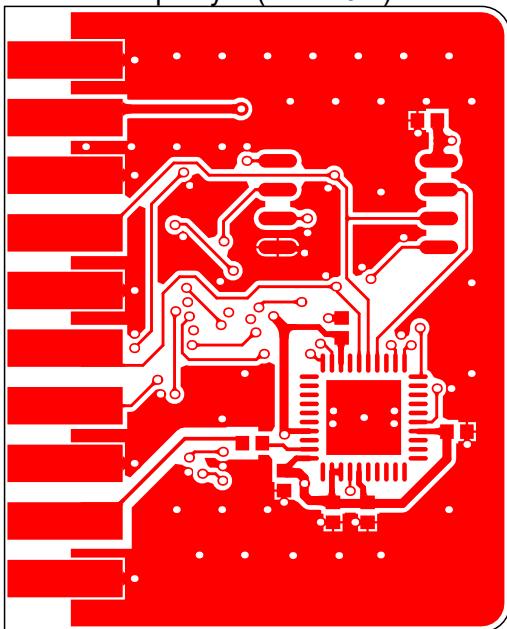
B

C

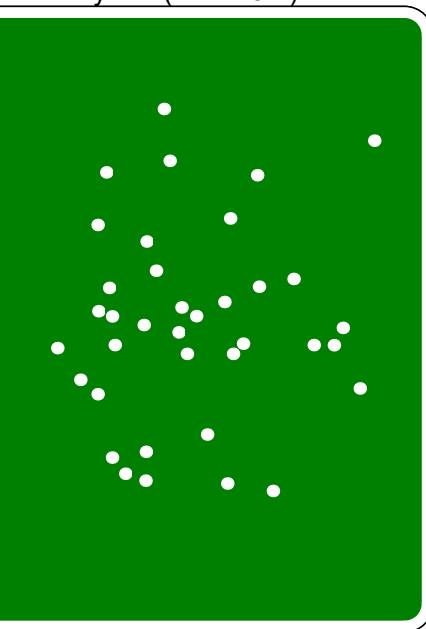
D

E

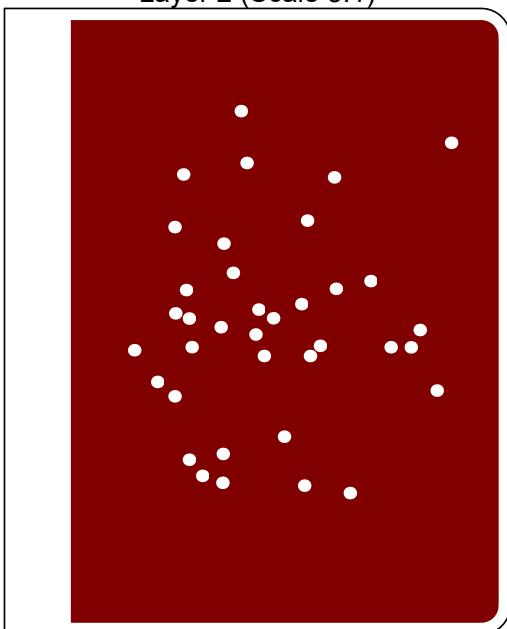
Top Layer (Scale 3:1)



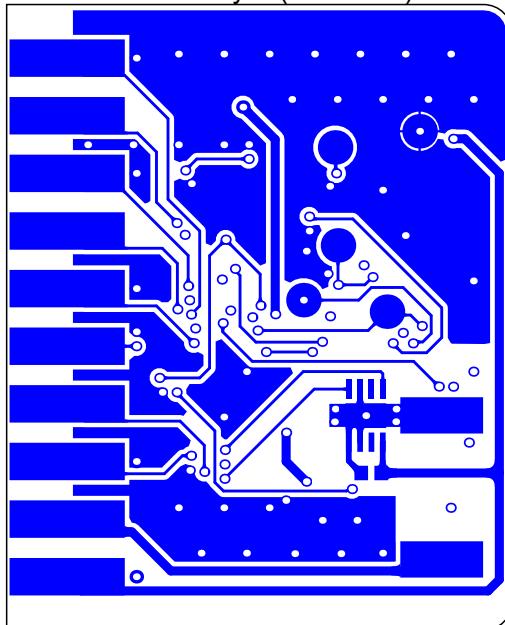
Layer 1 (Scale 3:1)



Layer 2 (Scale 3:1)



Bottom Layer (Scale 3:1)



Project	ESP32C6_CP A_Cartridge
Revision	2.0
Date	16/12/2023

Sheet 5 out of 5



courk.cc

This work is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License.

A

B

C

D

E