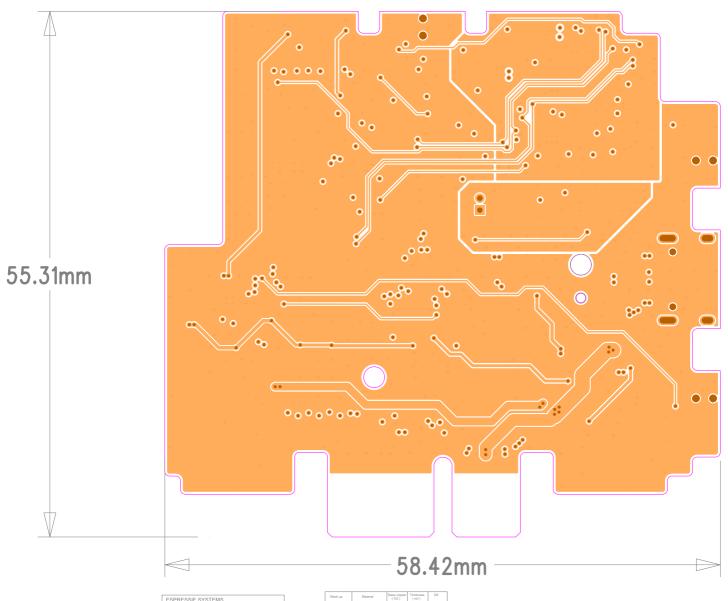


RES:	SIF SYSTE	MS		
盲息科	技 (上海) 刖	2份有限2	\T)	
ESP	32-S3-BOX-3-	MB		
HVVE	VD-61		Rev	1.0
Thu,	Thu,Jun 29, 2023 Propriet		orietary	
ness	Impedance	Width	Separation	Gan
	官息科 ESP HWE Thu,	言息科技(上海)月 ESP32-S3-BOX-3- HWD-61 Thu,Jun 29, 2023	ESP32-S3-BOX-3-MB HWD-61 Thu,Jun 29, 2023 Proj	言息科技(上海)股份有限公司 ESP32-S3-BOX-3-MB HWD-61 Rev Thu,Jun 29, 2023 Proprietary

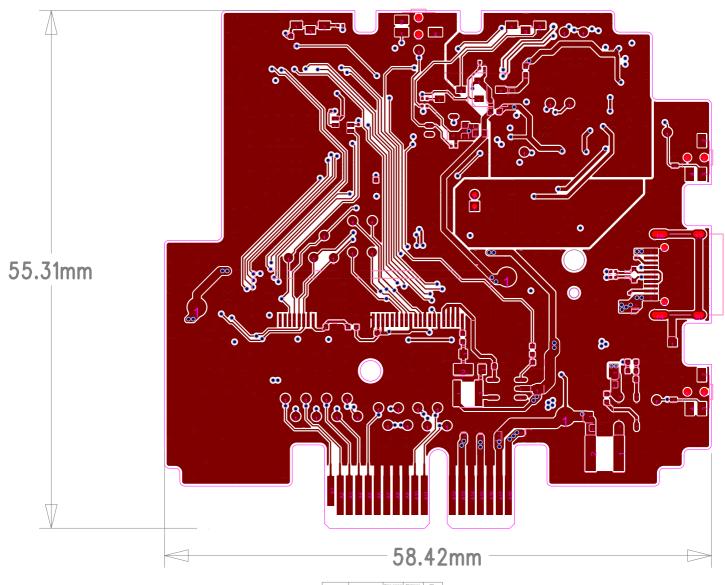
Stack up	Material	Base copper (OZ)	Thickness (mil)	DK
CM			0.4	4
L1_Top		0.33	0.8	
/PP/	7628 TG150 RC50%		8.22	4.6
L2_Gnd		1	1.2	
(Kag)	Core		Adjustable	4.6
L3_Power		-1	1.2	
/PP/	7628 TG150 RC50%		8.22	4.6
L4_Bottom		0.33	0.8	
SM			0.4	- 4





ESF	RES	SIF SYSTE	MS		
乐鑫	盲息科	技(上海)	2份有限2	2回	
Title	ESP	32-S3-BOX-3-	MB		
Task	HWI	HWD-61			1.0
Date	Thu,	Jun 29, 2023	Pro	prietary	
Thiel	ness			_	Gap
_	ness	Impedance	Width	Separation	Gap

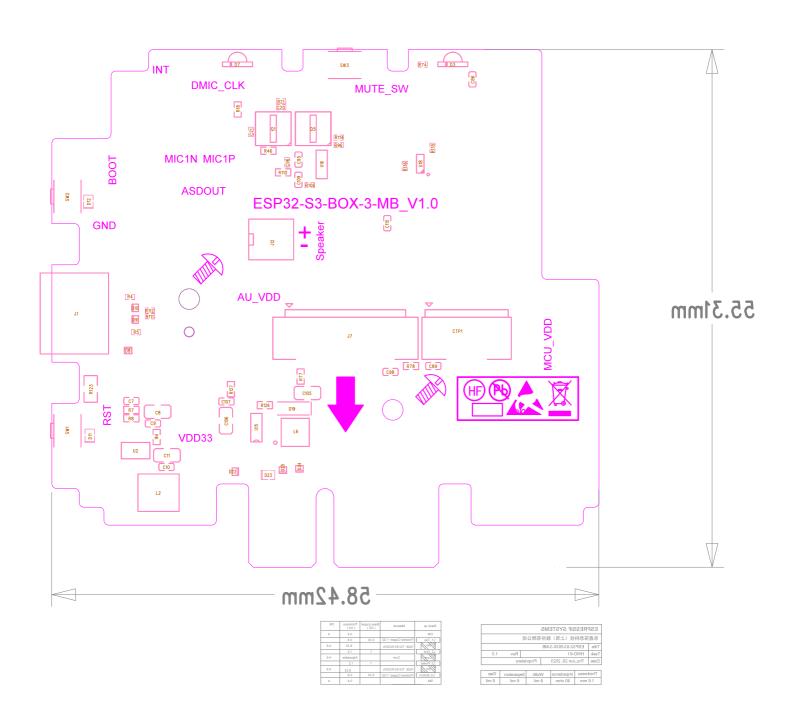
Stack up	Material	Base copper ( OZ )	Thickness (mil)	DK
CM			0.4	4
L1_Top		0.33		
/PP/	7628 TG150 RC50%		8.22	4.6
L2_Gnd		- 1		
(Except)	Core		Adjustable	4.6
L3_Power		- 1		
/pp/	7628 TG150 RC50%		8.22	4.6
L4_Bottom	Finished Copper 1 OZ	0.33		
SM			0.4	4

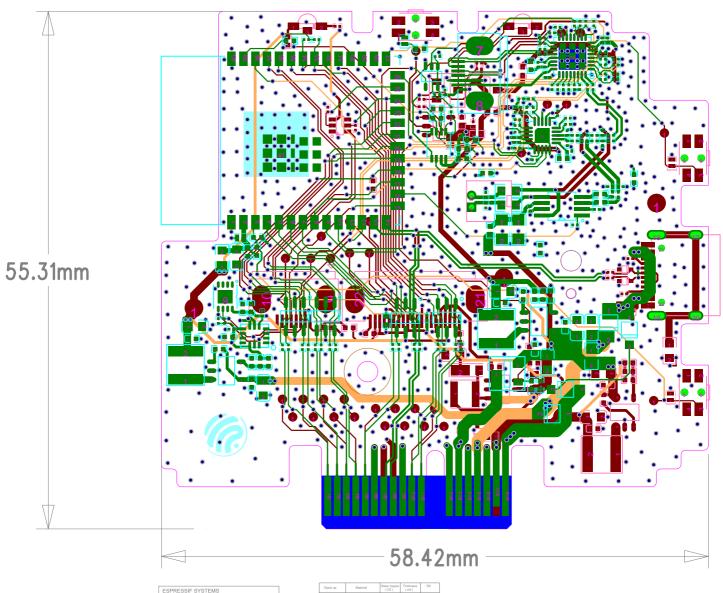


ESF	RES	SIF SYSTE	MS		
乐鑫	信息科	技(上海)月	9份有限4	2司	
Title	ESP32-S3-BOX-3-MB				
Task	HWI	0-61	Rev	1.0	
Date	Thu,	Jun 29, 2023	Prop	prietary	
Thial	mess			Ta	Gap
Inick	iness	Impedance	Width	Separation	Gap

Stack up	Material	(OZ)	(mil)	DR
CM			0.4	- 4
L1_Top		0.33	0.8	
/PP/	7628 TG150 RC50%		8.22	4.6
		1	1.2	
Coop	Core		Adjustable	4.6
L3_Power		1	1.2	
/PP/	7828 TG150 RC50%		8.22	4.6
		0.33	0.8	
SM			0.4	4







ESF	RES	SIF SYSTE	MS				
乐鑫	信息科	技(上海)月	设份	有限公	同		
Title	ESP	32-S3-BOX-3-	MB				
Task	HWI	WD-61				Rev	1.0
Date	Thu,	nu,Jun 29, 2023 Propriet			orieta	ary	
Thick	mess	Impedance	10	Vidth	I c.	eparation	Gap
	mm	90 ohm		mil	100	6 mil	6 mil

Stack up	Material	(OZ)	(mil)	DR
CM			0.4	4
L1_Top		0.33	0.8	
/pp/	7828 TG150 RC50%		8.22	4.6
L2_Gnd		1	1.2	
Carp	Core		Adjustable	4.6
L3_Power		1	1.2	
/PP/	7828 TG150 RC50%		8.22	4.6
L4_Bottom	Finished Copper 1 OZ	0.33	0.8	
SM			0.4	4