

Transmission Line Structure Table

Impedance Id	Transmission Line	Target Impedance	Calculated Impedance	Trace layer	Wide Trace Width	Narrow Trace Width	Gap	Reference layers	Substack	Clearance	Target Tolerance
1	Edge-Coupled Coated Microstrip	90	89.62	Top Copper	0.13mm	0.13mm	0.13mm	Int1 Copper (GND)	Board Layer Stack	0.13mm	5%
2	Edge-Coupled Coated Microstrip	100	97.86	Top Copper	0.13mm	0.13mm	0.20mm	Int1 Copper (GND)	Board Layer Stack	0.13mm	5%
3	Coated Microstrip	50	49.83	Top Copper	0.16mm	0.16mm		Int1 Copper (GND)	Board Layer Stack	0.13mm	5%
4	Edge-Coupled Coated Microstrip	120	114.12	Top Copper	0.13mm	0.13mm	0.70mm	Int1 Copper (GND)	Board Layer Stack	0.13mm	5%
5	Edge-Coupled Coated Microstrip	90	89.62	Bottom Copper	0.13mm	0.13mm	0.13mm	Int2 Copper (GND)	Board Layer Stack	0.13mm	5%
6	Edge-Coupled Coated Microstrip	100	97.86	Bottom Copper	0.13mm	0.13mm	0.20mm	Int2 Copper (GND)	Board Layer Stack	0.13mm	5%
7	Coated Microstrip	50	49.83	Bottom Copper	0.16mm	0.16mm		Int2 Copper (GND)	Board Layer Stack	0.13mm	5%
8	Edge-Coupled Coated Microstrip	120	114.12	Bottom Copper	0.13mm	0.13mm	0.70mm	Int2 Copper (GND)	Board Layer Stack	0.13mm	5%

Layer Stack Legend

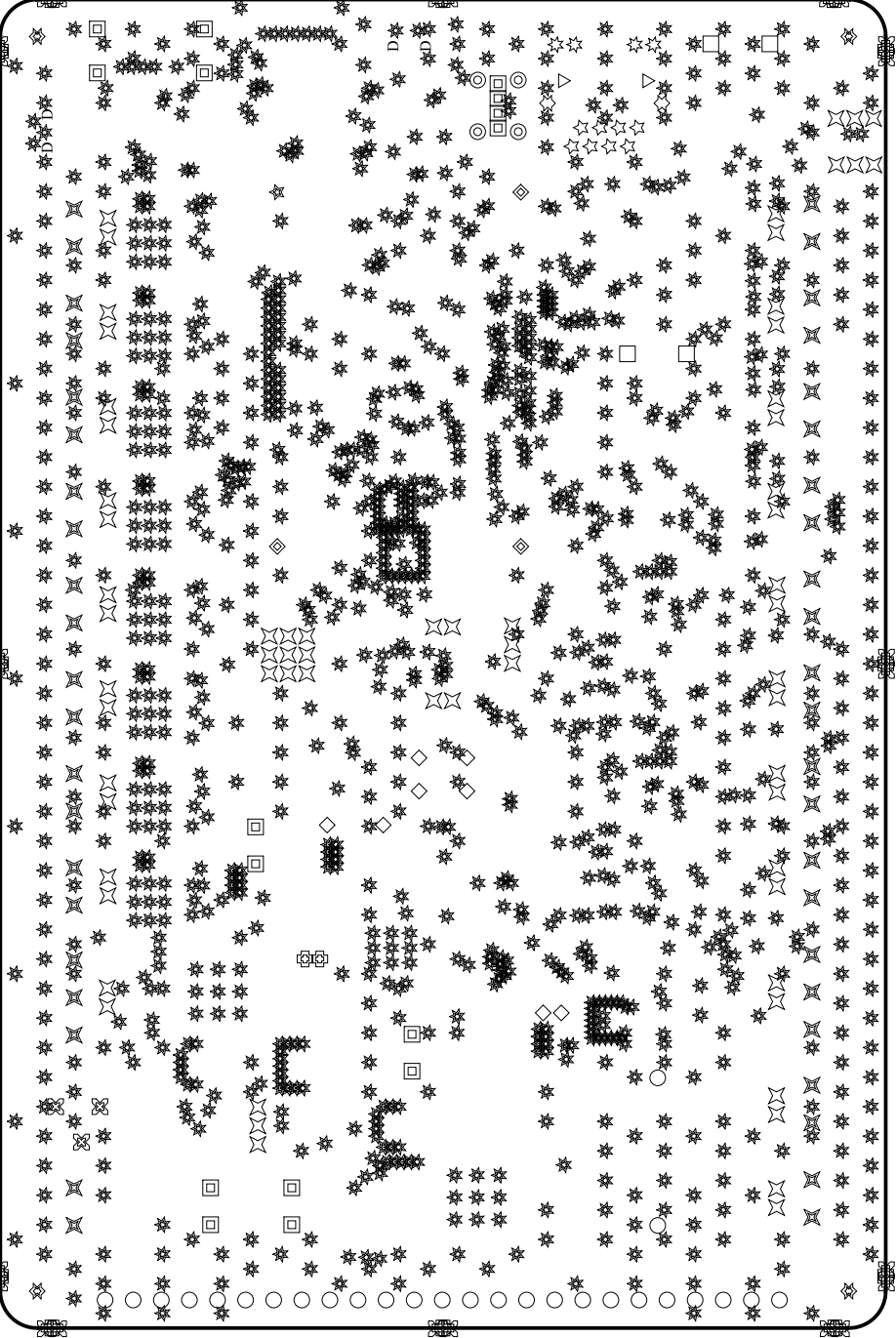
Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.013mm	SM-001	Solder Mask	GTS
PbSn	Top Surface Finish	0.020mm		Surface Finish	
CF-004	Top Copper	0.035mm		Signal	GTL
Prepreg		0.100mm	PP-2313	Dielectric	
CF-004	Int1 Copper (GND)	0.018mm		Signal	G1
Core		1.265mm	Core	Dielectric	
CF-004	Int2 Copper (GND)	0.018mm		Signal	G2
Prepreg		0.100mm	PP-2313	Dielectric	
CF-004	Bottom Copper	0.035mm		Signal	GBL
PbSn	Bottom Surface Finish	0.020mm		Surface Finish	
Surface Material	Bottom Solder	0.013mm	SM-001	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 1.635mm					

JLCPCB 2313 Impedance Matched 1.6mm 4L Stackup

Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
⊕	36	0.30mm	Non-Plated	
✱	1395	0.30mm	Plated	
⊗	24	0.50mm	Non-Plated	
⊕	2	0.70mm	Plated	
⊗	3	0.80mm	Plated	
✱	65	0.85mm	Plated	
☆	8	0.89mm	Plated	
⊕	4	0.90mm	Non-Plated	
⊕	16	0.90mm	Plated	
□	4	1.00mm	Non-Plated	
◇	8	1.00mm	Plated	
☆	4	1.02mm	Plated	
○	27	1.30mm	Plated	
✱	44	1.40mm	Plated	
☆	2	1.63mm	Plated	
⊙	4	1.80mm	Plated	
☆	1	2.60mm	Non-Plated	
◇	3	2.60mm	Plated	
✱	4	3.10mm	Plated	
▽	2	3.25mm	Non-Plated	
	1656 Total			

Drill Drawing View (Scale 1:1)



A

B

C

D

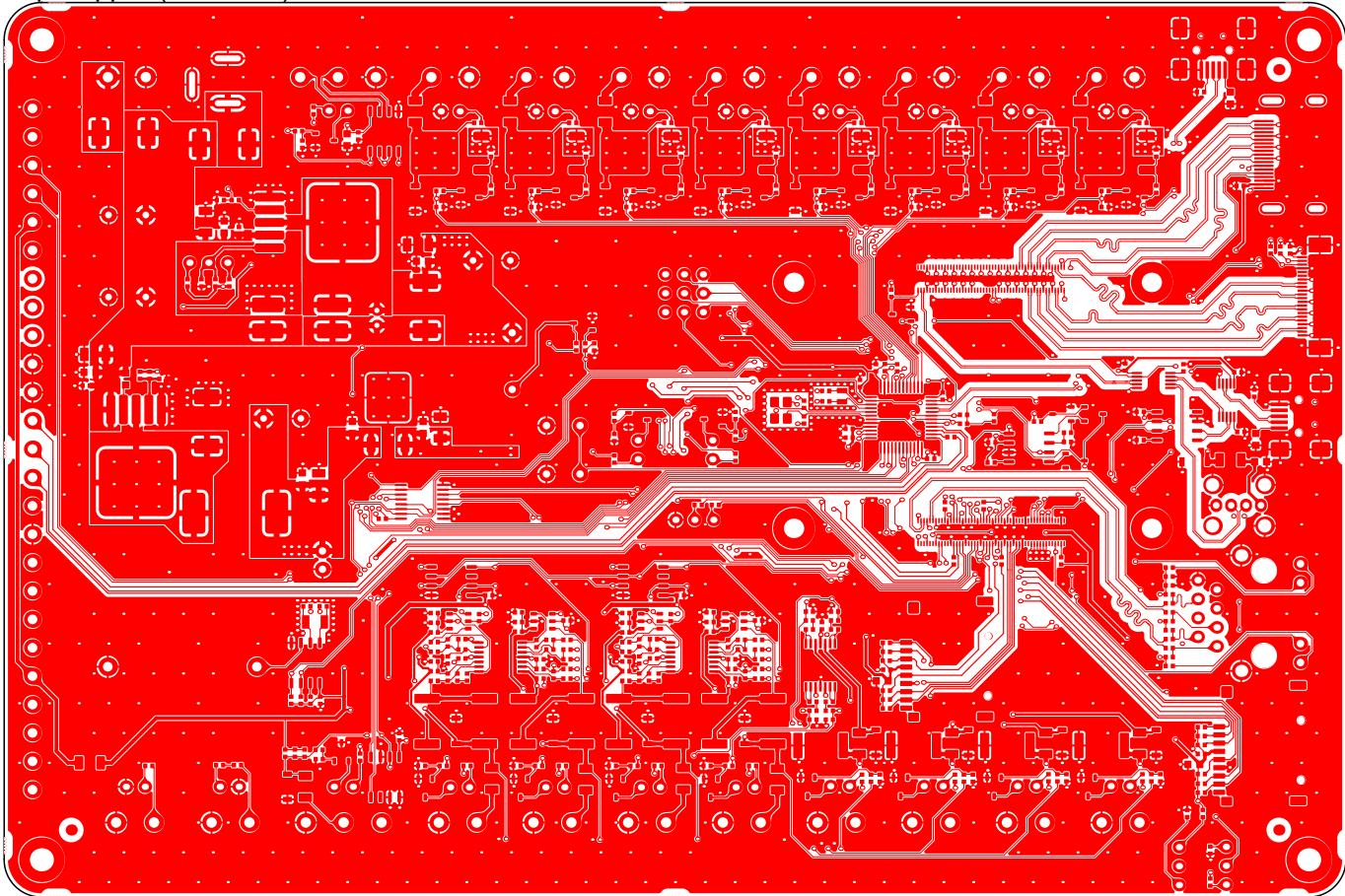
E

F

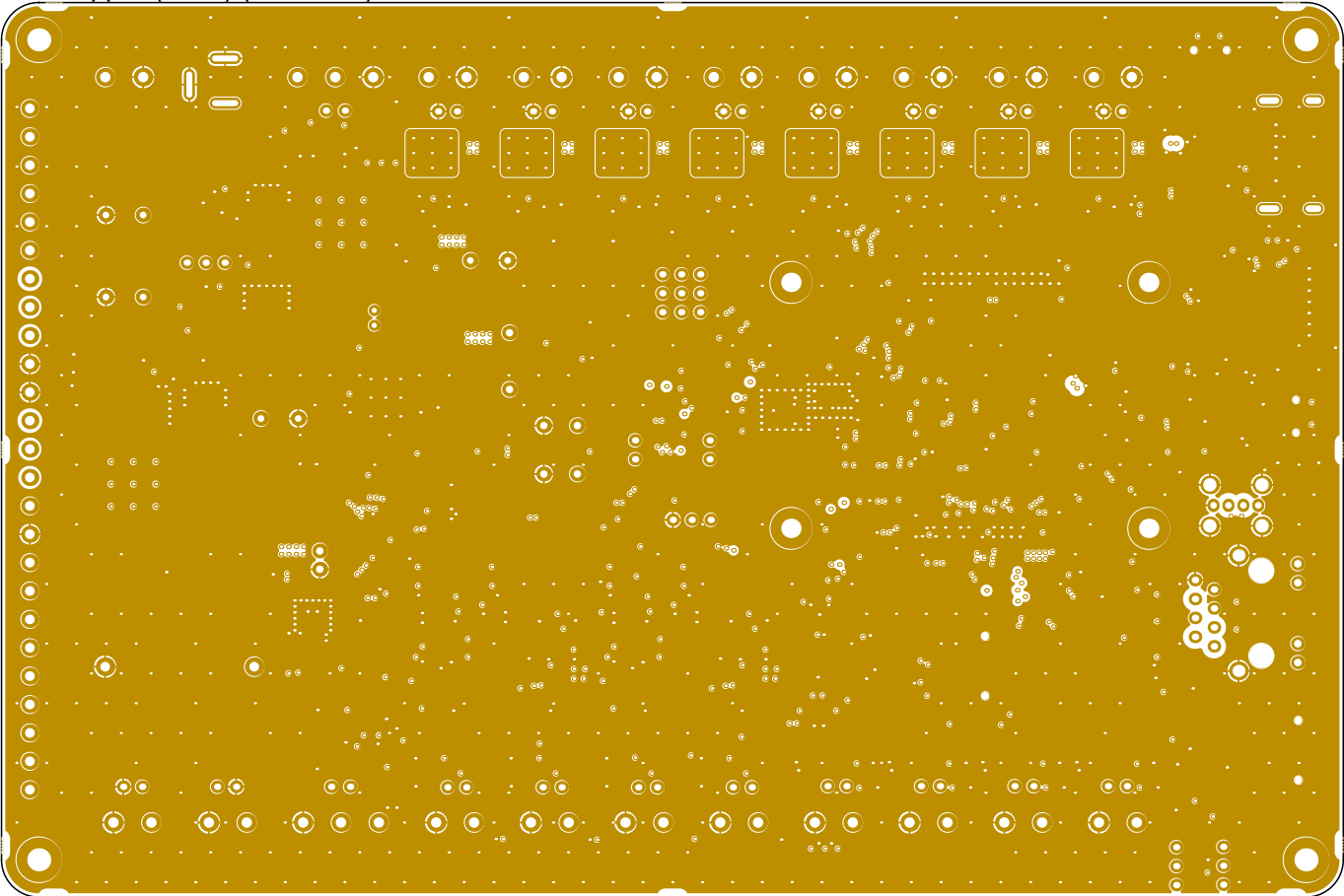
G

H

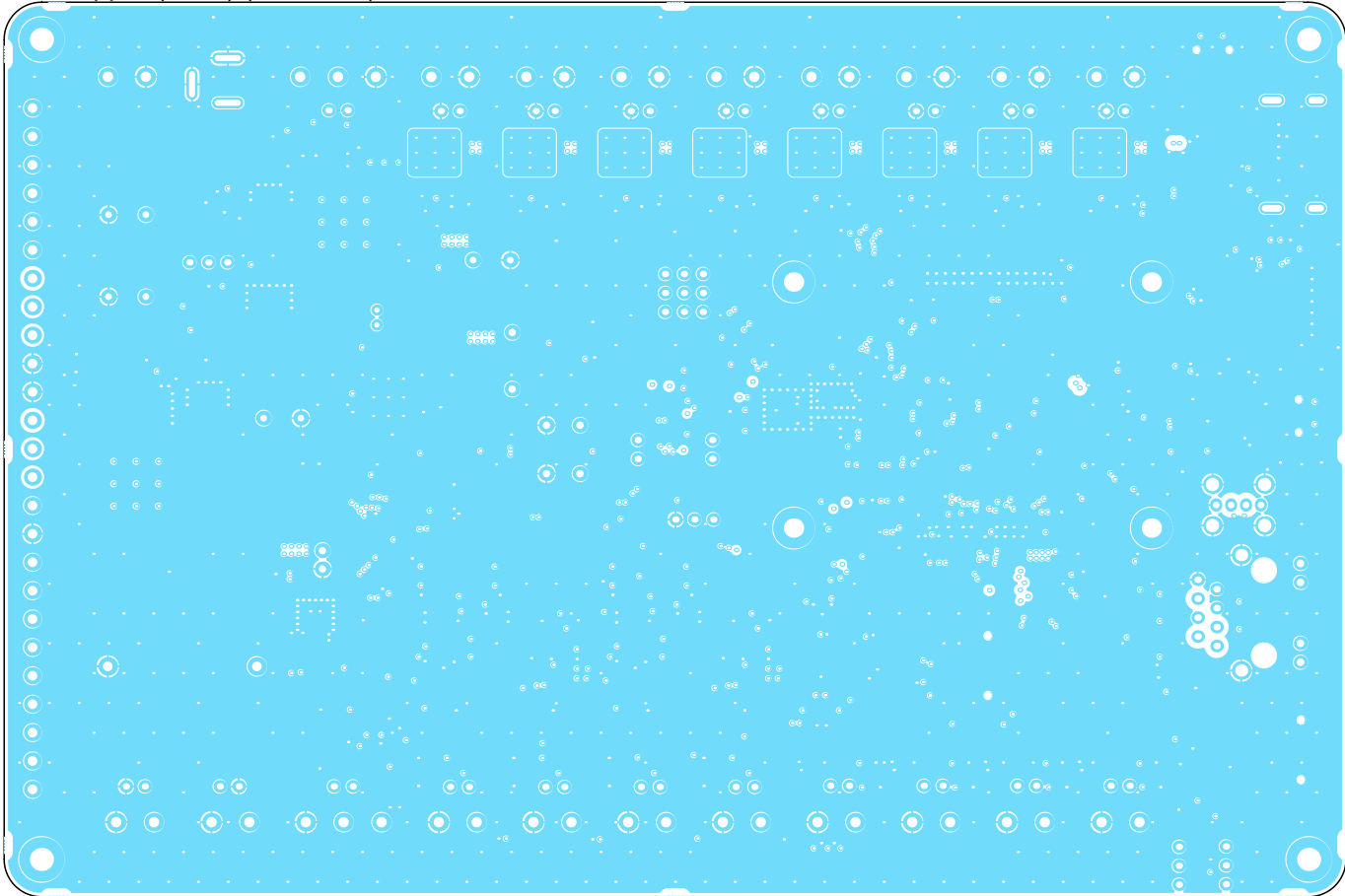
Top Copper (Scale 1:1)



Int1 Copper (GND) (Scale 1:1)



Int2 Copper (GND) (Scale 1:1)



Bottom Copper (Scale 1:1)

