

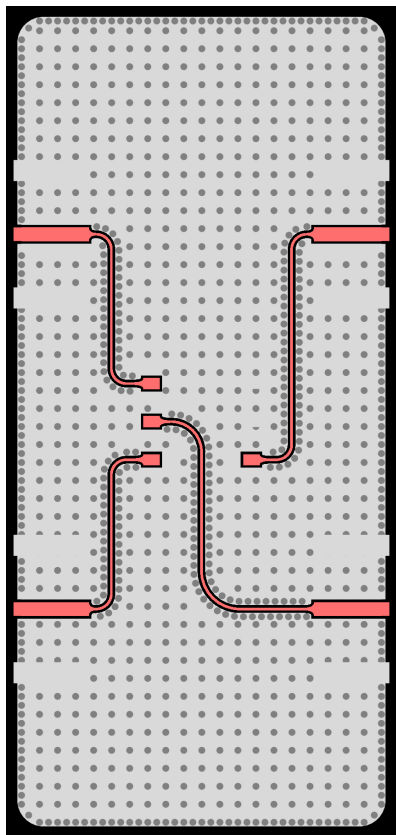
Board Details:

- 1. 6-layer
- 2. ~1.6mm thick (JLC No Requirement Stackup)
- 3. Green solder mask on both sides
- 4. White legend on top side only
- 5. Immersion gold finish
- 6. 1oz copper

Notes:

- 7. All CNC drill sizes refer to the hole size after thru-hole plating.

Top Impedance Controlled Traces (Not to Scale)







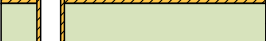












Red tracks are 50 ohm single ended RF traces

Transmission Line Structure Table

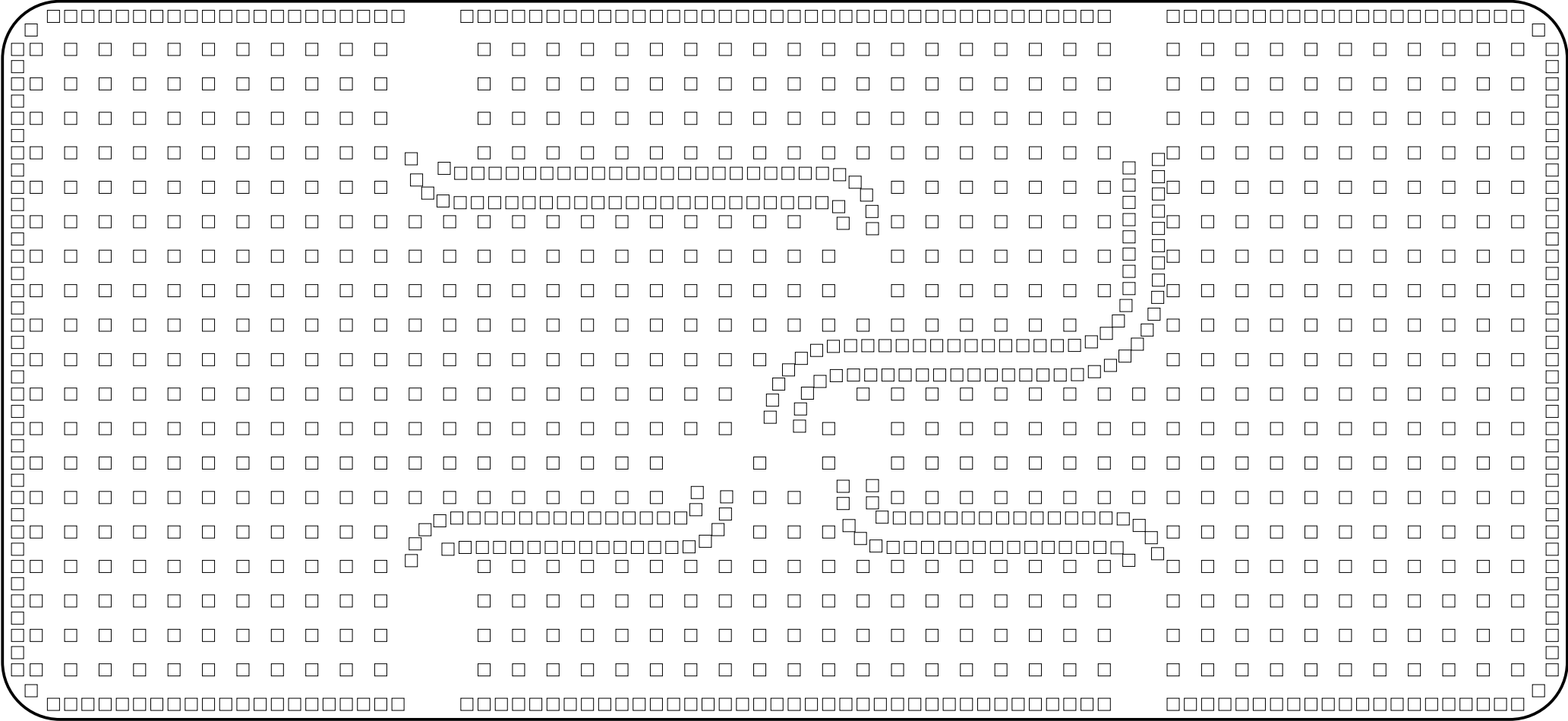
Transmission Line	Target Impedance	Calculated Impedance	Trace layer	Reference layers	Trace Width	Gap	Target Tolerance
Coated Coplanar Waveguide With Ground	50	50.01	Top Layer	Int1 (GND)	0.144mm		10%
Coated Coplanar Waveguide With Ground	50	50.01	Bottom Layer	Int4 (GND)	0.144mm		10%

Layer Stack Legend

	Material	Layer	Type	Thickness	Dk	Df	Constructions	Gerber
		Top Overlay	Legend					GTO
	Surface Material	Top Solder	Solder Mask	0.025mm	4	0.03		GTS
	Nickel, Gold	Top Surface Finish	Surface Finish	0.051mm				
	CF-004	Top Layer	Signal	0.035mm				GTL
	Prepreg		Dielectric	0.099mm	4.1	0.02	3313	
	CF-004	Int1 (GND)	Signal	0.015mm				G1
	Core		Dielectric	0.550mm	4.6	0.02	2-7628/2116	
	CF-004	Int2 (GND)	Signal	0.015mm				G2
	Prepreg		Dielectric	0.116mm	4.16	0.02	2116	
	CF-004	Int3 (GND)	Signal	0.015mm				G3
	Core		Dielectric	0.550mm	4.6	0.02	2-7628/2116	
	CF-004	Int4 (GND)	Signal	0.015mm				G4
	Prepreg		Dielectric	0.099mm	4.1	0.02	3313	
	CF-004	Bottom Layer	Signal	0.035mm				GBL
	Nickel, Gold	Bottom Surface Finish	Surface Finish	0.051mm				
	Surface Material	Bottom Solder	Solder Mask	0.025mm	4	0.03		GBS
		Bottom Overlay	Legend					GBO

Total thickness: 1.698mm

Drill Drawing View (Scale 5:1)



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
□	1184	0.300mm	Plated	
	1184 Total			