

1 inch  
1 cm  
1 mm

# Fabrication Notes

Stackup

Designed for CircuitHub std 4-Layer 1.6mm stackup:

			Er	H(mm)	[mil]	Wg(oz)
1	Top	Copper	Sig(GND)	0.035	[1.4]	1
		7630	Prepreg	4.7	0.2	[7.9]
2	In1	Copper	Plane(GND)	0.035	[1.4]	1
		[Fr-4?]	Core	4.6	1.03	[40.6]
3	In2	Copper	Plane(PWR)	0.035	[1.4]	1
		7630	Prepreg	4.7	0.2	[7.9]
4	Bot	Copper	Sig(GND)	0.035	[1.4]	1

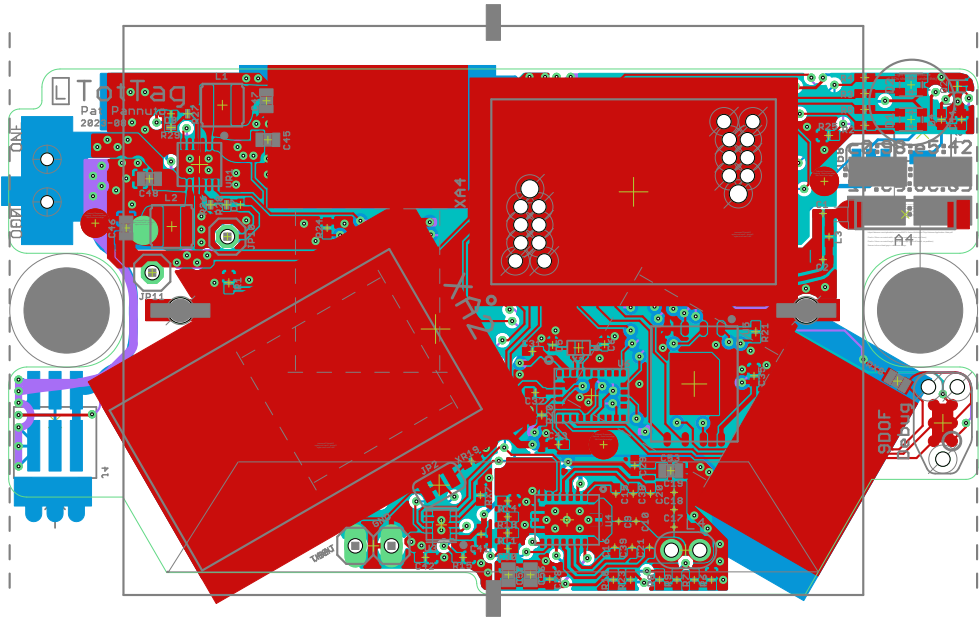
## Impedance Control

50Ω for Bluetooth RF [2.4 GHz]  
- Controlled traces run from XA1-A4

All modeled as Coplanar waveguide.  
SaturnPCB Calculator Configuration:  
W=14 mil (0.356 mm)  
H= 7.87mil  
G=10 mil  
[W/H=1.779 < 2, √]  
Er 4.7 is high end for 7630 materials  
4.7 -> 49.9 Ω  
4.6 -> 50.4 Ω  
reasonable hedge

## Panelization

Any OK.  
OK to leave mouse bite tabs any edge.



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