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

Impedence Control

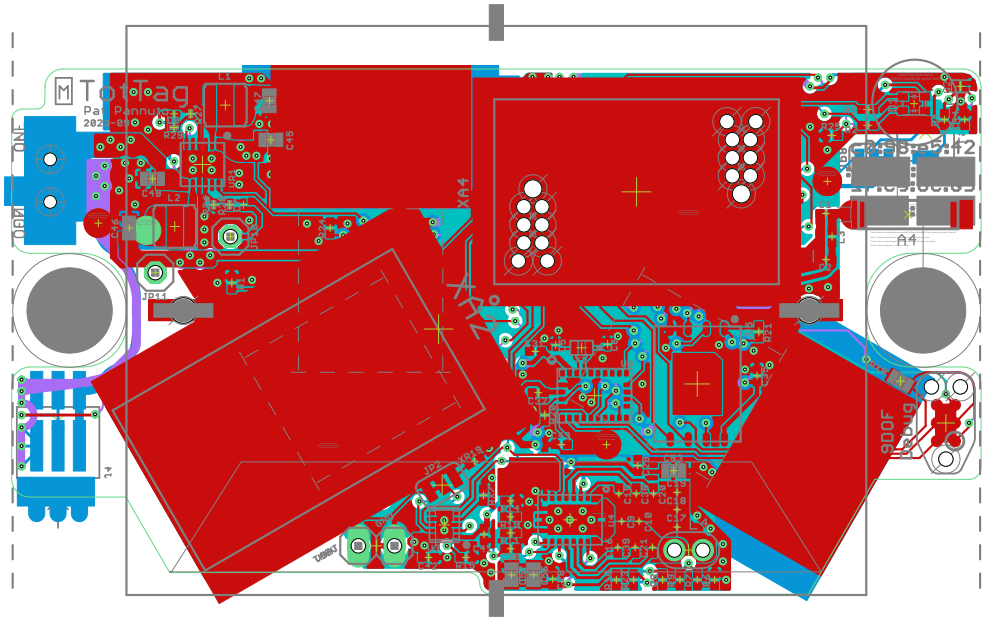
50Ω for Bluetooh RF [2.4 GHz]
 - Controlled traces run from XA1-A4

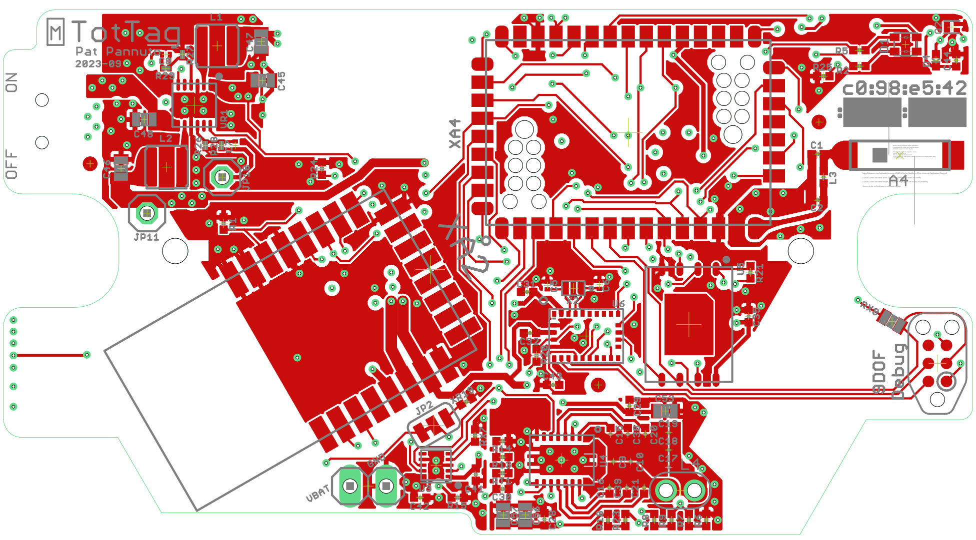
All modeled as Coplanar waveguide.
 SaturnPCB Calculator Configuration:
  W=14 mil (0.356 mm)
  H= 7.87mil
  G=10 mil
  [W/H=1.779 < 2, √]
 Er 4.7 is high end for 7630 materials
  4.7 -> 49.9 Ω
  4.6 -> 50.4 Ω
  reasonable hedge

Panelization

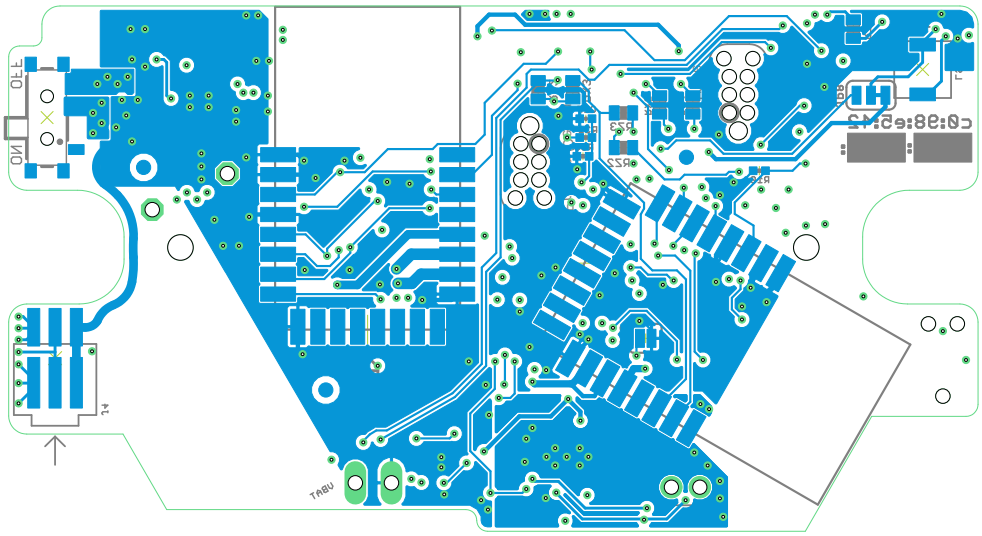
Any OK.
OK to leave mouse bite tabs any edge.

1 Inch
1 cm
1 mm





9/17/23 19:08 f=2.50 /var/folders/_t/61hmf1293xq508hf1ksgyp900000gn/T/Neutron/ElectronFileOutput/18306/brd-e487fc39-67df-4a68-8de8-7246d9cd4b02/rev_m v3.brd



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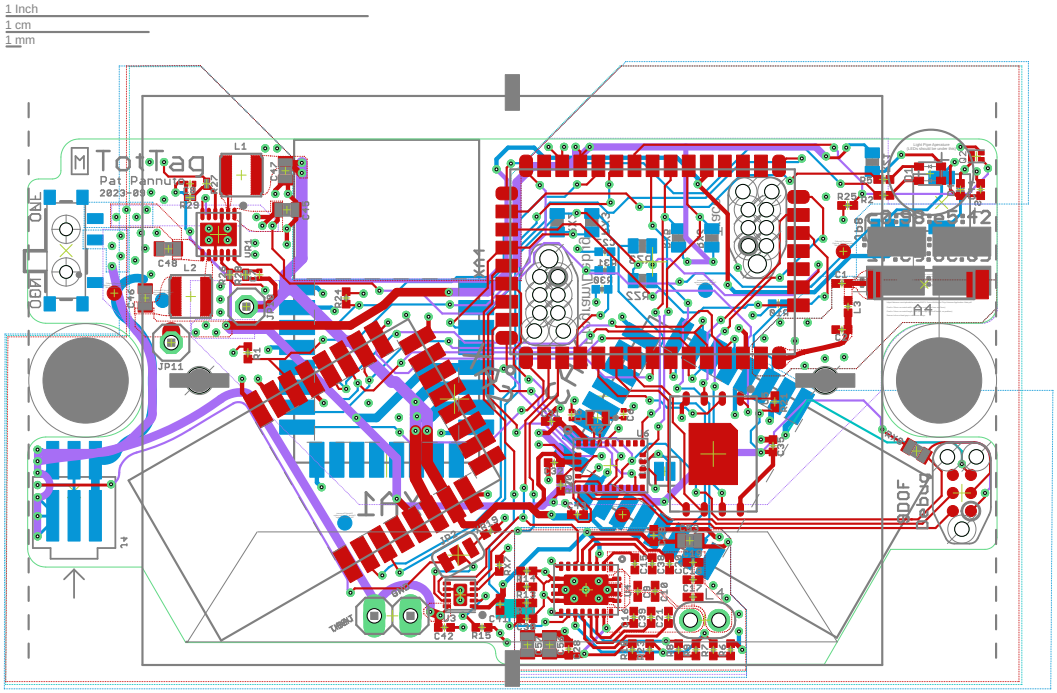

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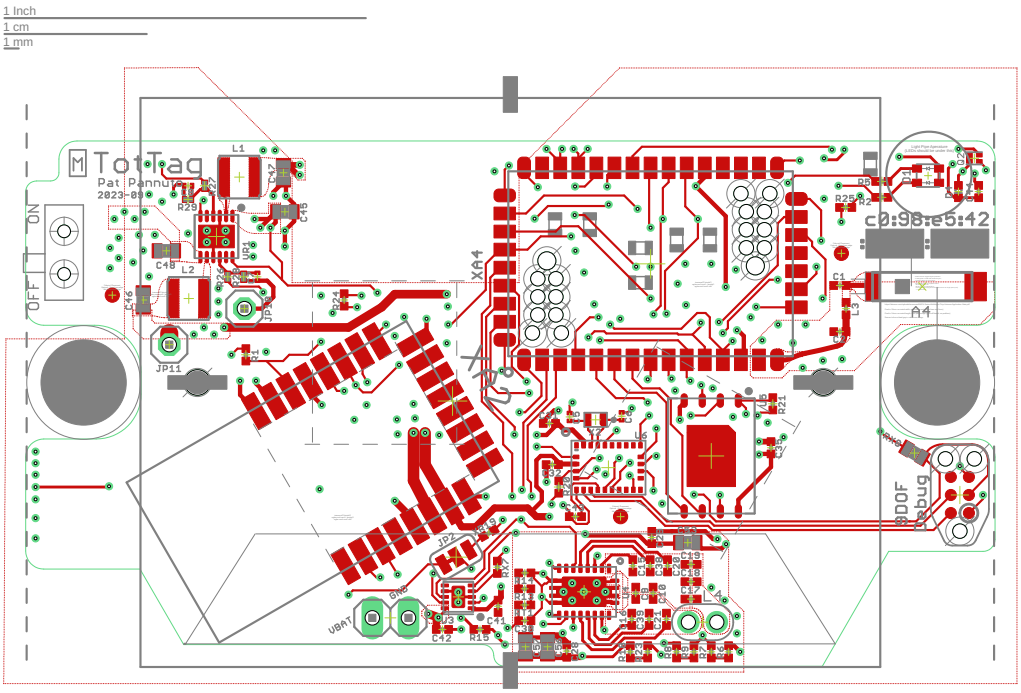

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