Fabrication Notes

Stackup:
Designed for CircuitHub Std Fab: 4-Layer, 0.6mm

Order 1:	Name Top	Matrl Copper	Dscrpt Signal	Dielec	Thk(mm) 0.035	CuWgt(oz 1oz
		2116	Prepreg	4.5	0.12	
2:	Route2	Copper FR4	Ground Core	4.6	0.035 0.23	1oz
3:	Route15	Copper	Pwr/Gnd		0.12	1oz
4:	Bottom	2116 Copper	Prepreg Sig/Gnd	4.5	0.12 0.035	1oz

- Impedence Control

 One 500 trace for 2.4 GHz (Bluetooth)

 Routed as coplanar wave, params:

 Conductor Width = 8 mil

 Conductor Height = 4.725 mil [0.12mm]

 Er=4.5

 Modeled Z ~= 50.1 Ω

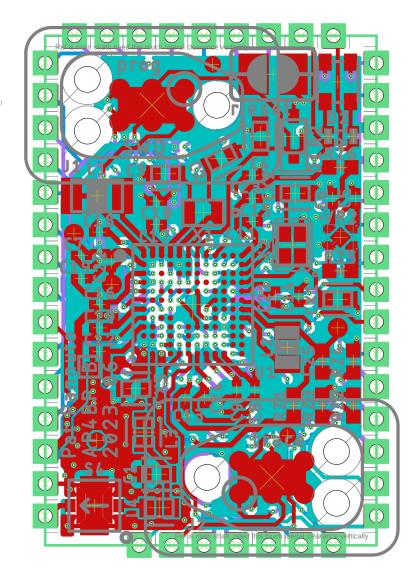
Trace U1-L3-L4-S4-P15(Castellation)

XXX IGNORE FOR REV-K ; UNUSED XXX

- One 900 differential pair USB PHY
 Routed as edge-coupled external
 Conductor Width = 6 mil
 Conductor Spacing = 12 mil
 Conductor Spacing = 12 mil [0.12mm]
 Ers4.5
 Rodeled Zdiff ~= 90.05 Ω

Traces U1-P20,P21(Castellations)

XXX IGNORE FOR REV-K ; UNUSED XXX



Fabrication Notes

Stackup:
Designed for CircuitHub Std Fab: 4-Layer, 0.6mm

Order 1:	Name Top	Matrl Copper	Dscrpt Signal	Dielec	Thk(mm) 0.035	CuWgt(oz 1oz
		2116	Prepreg	4.5	0.12	
2:	Route2	Copper FR4	Ground Core	4.6	0.035 0.23	1oz
3:	Route15	Copper	Pwr/Gnd		0.12	1oz
4:	Bottom	2116 Copper	Prepreg Sig/Gnd	4.5	0.12 0.035	1oz

- Impedence Control

 One 500 trace for 2.4 GHz (Bluetooth)

 Routed as coplanar wave, params:

 Conductor Width = 8 mil

 Conductor Height = 4.725 mil [0.12mm]

 Er=4.5

 Modeled Z ~= 50.1 Ω

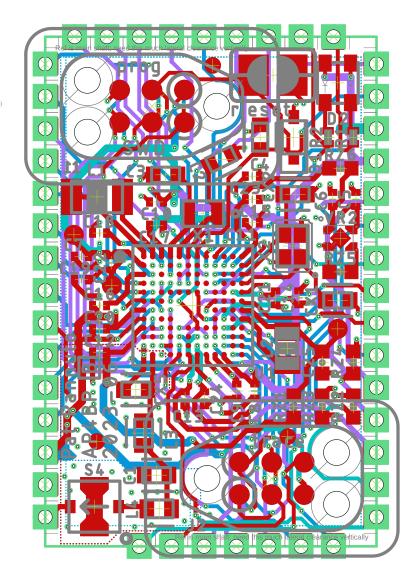
Trace U1-L3-L4-S4-P15(Castellation)

XXX IGNORE FOR REV-K ; UNUSED XXX

- One 900 differential pair USB PHY
 Routed as edge-coupled external
 Conductor Width = 6 mil
 Conductor Width = 6 mil
 Conductor Spacing = 12 mil
 Conductor Feight = 4.725 mil [0.12mm]
 Ers4.5
 Rodeled Zdiff ~= 90.05 \(\Omega\$

Traces U1-P20,P21(Castellations)

XXX IGNORE FOR REV-K ; UNUSED XXX



Fabrication Notes

Stackup:
Designed for CircuitHub Std Fab: 4-Layer, 0.6mm

0rder	Name				Thk(mm)	
1:	Top		Signal		0.035	1oz
			Prepreg			
2:	Route2	Copper	Ground		0.035	1oz
		FR4	Core	4.6	0.23	
3:	Route15	Copper	Pwr/Gnd		0.12	1oz
		2116	Prepreg	4.5	0.12	
4:	Bottom	Copper	Sig/Gnd		0.035	1oz

- Impedence Control

 One 500 trace for 2.4 GHz (Bluetooth)

 Routed as coplanar wave, params:

 Conductor Width = 8 mil

 Conductor Height = 4.725 mil [0.12mm]

 Er=4.5

 Modeled Z ~= 50.1 Ω

Trace U1-L3-L4-S4-P15(Castellation)

