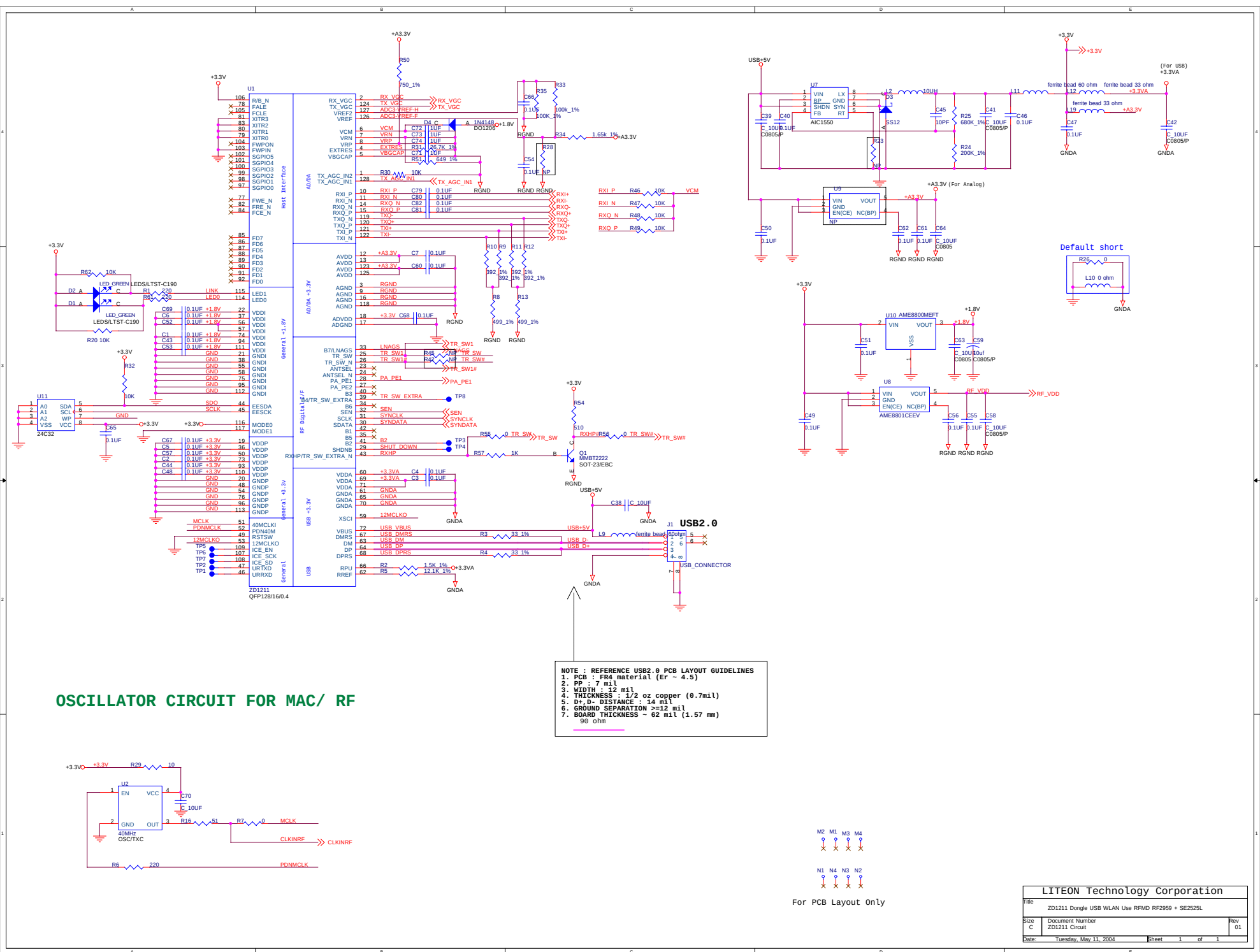
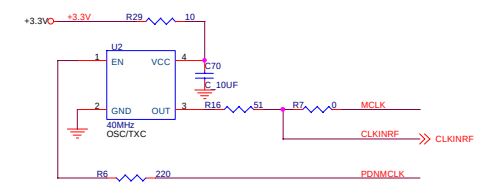
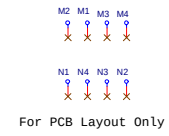




OSCILLATOR CIRCUIT FOR MAC/ RF

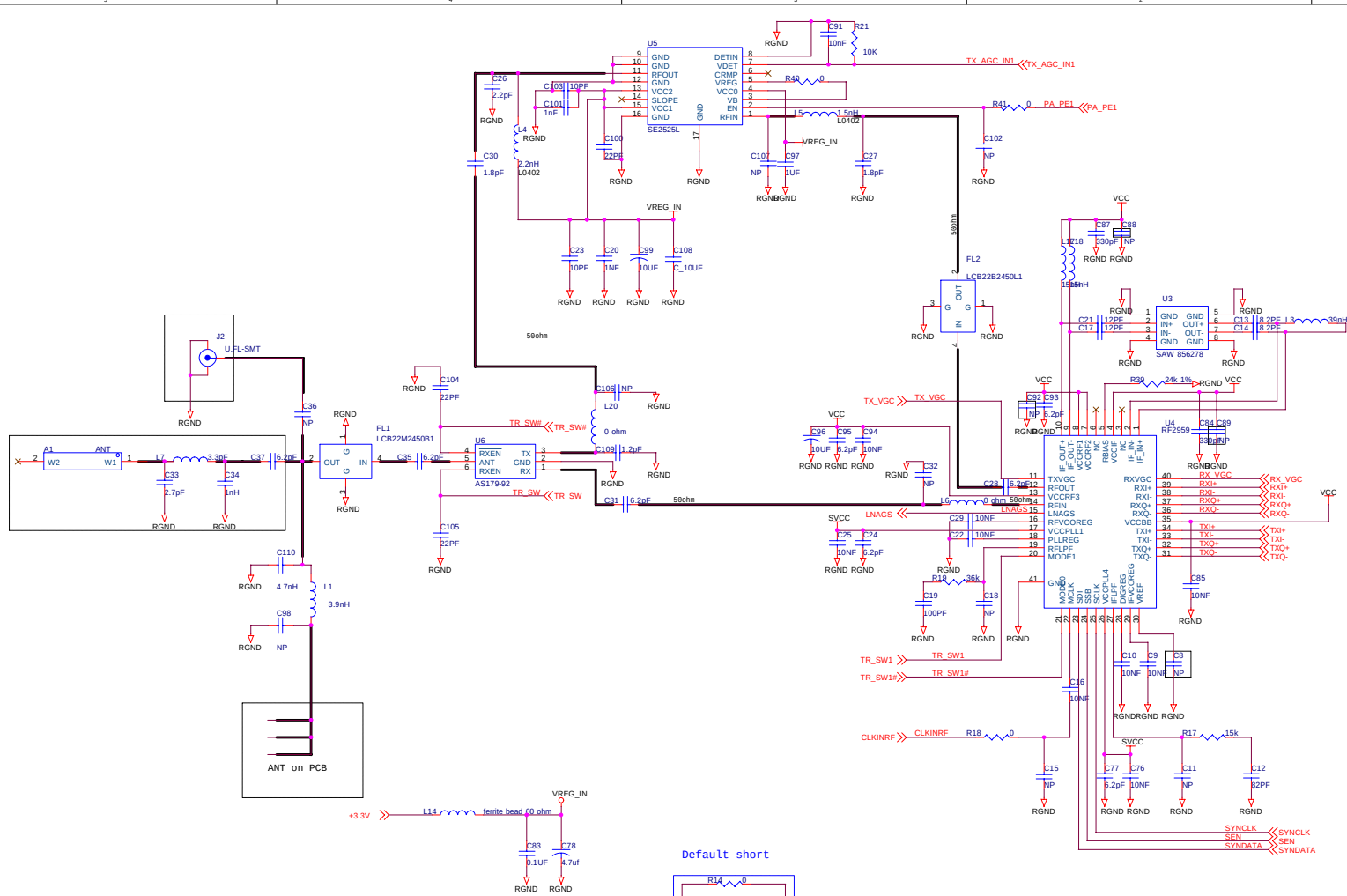


NOTE : REFERENCE USB2.0 PCB LAYOUT GUIDELINES
1. PCB : FR4 material (Er ~ 4.5)
2. PP : 7 mil
3. WIDTH : 12 mil
4. THICKNESS : 1/2 oz copper (0.7mil)
5. D+D- DISTANCE : 14 mil
6. GROUND SEPARATION >=12 mil
7. BOARD THICKNESS ~ 62 mil (1.57 mm)
99 ohm



For PCB Layout Only

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- | | |
|---------|-----------|
| LAYER 1 | 1/2 OZ Cu |
| LAYER 2 | 1 OZ Cu |
| LAYER 3 | 1 OZ Cu |
| LAYER 4 | 1 OZ Cu |
| LAYER 5 | 1 OZ Cu |
| LAYER 6 | 1/2 OZ Cu |

50 Ohm RF thickness line 12 mil width
The RF lines minimum space widths are 15 mil

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