1. All resistance values are in ohms, 0.1 watt +/- 5%.
2. All capacitance values are in microfarads.
3. All crystals & oscillator values are in hertz.
PCB SPECS

THICKNESS: 1.2 MM / 0.047 IN
1/2 OZ CU THICKNESS: 0.7 MILS
1.0 OZ CU THICKNESS: 1.4 MILS

IMPEDANCE: 50 OHMS +/- 10%
DIELECTRIC: FR-4
LAYER COUNT: 12
SIGNAL TRACE WIDTH: 4 MILS
SIGNAL TRACE SPACING: 4 MILS
PREPREG THICKNESS: 2-3 MILS

SEE PCB CAD FILES FOR MORE SPECIFIC INFO.

BOARD STACK-UP AND CONSTRUCTION

<table>
<thead>
<tr>
<th>Layer</th>
<th>Description</th>
<th>Signal Width</th>
<th>Copper Plating</th>
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SIGNAL TRACE WIDTH: 4 MILS
PREPREG THICKNESS: 2-3 MILS
SIGNAL TRACE SPACING: 4 MILS
DIELECTRIC: FR-4
THICKNESS: 1.2 MM / 0.047 IN
1/2 OZ CU THICKNESS: 0.7 MILS
1.0 OZ CU THICKNESS: 1.4 MILS
IMPEDANCE: 50 OHMS +/- 10%
POWER NET CONSTRAINTS

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<th>MIN_NECK_WIDTH</th>
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</tr>
</tbody>
</table>

**NOTE:**
- SIG_NAME: Signal Name
- VOLTAGE: Voltage
- MIN_LINE_WIDTH: Minimum Line Width
- MIN_NECK_WIDTH: Minimum Neck Width
**Signal Cross-Reference for the entire design**

- **+3V_MAIN**
- **+5V_MAIN**
- **+5V_USB_EMI_L**
- **+5V_USB_L**
- **+5V_USB_VDD**
- **+ADAPTER**
- **+ADAPTER_FUSE**
- **+ADAPTER_UF**
- **ADAPTER_DET**
- **ADAPTER_DET_F**
- **ADAPTER_DET_G**
- **ADAPTER_DET_U**
- **ADAPTER_DET_UF**
- **ADAPTER_GND**
- **ADAPTER_RING**
- **ALS_GAIN**
- **ALS_OUT**
- **CHARGE_LED_D**
- **CHARGE_LED_DRV**
- **CHARGE_LED_L**
- **CHARGE_LED_L_ESD**
- **CHARGE_LED_S**
- **DC_PLUG_GND**
- **DC_PLUG_TIP**
- **GAIN_SETTING1**
- **LEFT_USB_GND**
- **LIGHT_SENSOR**
- **MAX4236_IN+**
- **MAX4236_IN-**
- **MAX4236_OUT**
- **OCI**
- **PWRON**
- **USB_DM_EMI_L**
- **USB_DM_L**
- **USB_DP_EMI_L**
- **USB_DP_L**
- **USB_ENABLE_H**
- **USB_ENABLE_L**
- **USB_EN_B**