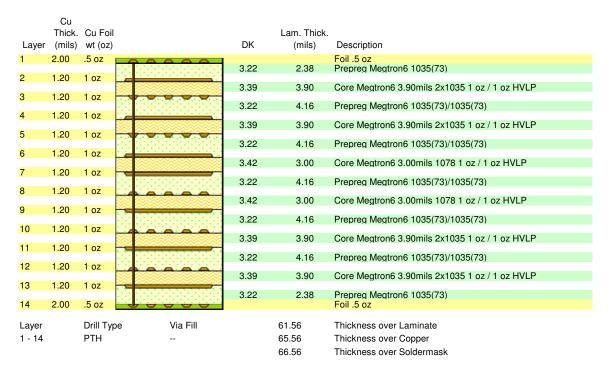
Date: Aug.30.2016



Customer P/N: Part REV

Internal P/N: SIGNAL_LAB_14LAYERS_CS_Rev1_Meg6k_0830 Contact: Marty Thompson Phone: +14089387231



| Impedance Table | | | | | | | | | |
|-----------------|---------------------------|----------------------|-------------------------------|----------------------------------|-------------------------------|-------------------------------------|---------------------|---------------------------------|---------------------------------|
| Layer | Structure Type | Coated Microstrip | Target Impedance (ohms) | Impedance Tolerance (ohms) | Target Linewidth (mils) | Differential Spacing * (mils) | Reference Layers | Modelled Linewidth (mils) | Modelled Impedance (ohms) |
| 1 | Single Ended | Yes | 40.00 | +/-4 | 6.00 | 0.00 | (2) | 6.00 | 40.92 |
| 1 | Single Ended | Yes | 50.00 | +/-5 | 4.00 | 0.00 | (2) | 4.00 | 50.25 |
| 1 | Edge Coupled Differential | Yes | 100.00 | +/-10 | 3.75 | 11.00 | (2) | 3.75 | 99.21 |
| 3 | Edge Coupled Differential | | 100.00 | +/-10 | 3.50 | 4.50 | (4, 2) | 3.50 | 98.12 |
| 3 | Single Ended | | 40.00 | +/-4 | 6.00 | 0.00 | (4, 2) | 6.00 | 40.37 |
| 3 | Single Ended | | 50.00 | +/-5 | 4.00 | 0.00 | (4, 2) | 4.00 | 50.53 |
| 5 | Single Ended | | 50.00 | +/-5 | 4.00 | 0.00 | (6, 4) | 4.00 | 50.53 |
| 5 | Single Ended | | 40.00 | +/-4 | 6.00 | 0.00 | (6, 4) | 6.00 | 40.37 |
| 5 | Edge Coupled Differential | | 100.00 | +/-10 | 3.50 | 4.50 | (6, 4) | 3.50 | 98.12 |
| 10 | Single Ended | | 50.00 | +/-5 | 4.00 | 0.00 | (9, 11) | 4.00 | 50.53 |
| 10 | Single Ended | | 40.00 | +/-4 | 6.00 | 0.00 | (9, 11) | 6.00 | 40.37 |
| 10 | Edge Coupled Differential | | 100.00 | +/-10 | 3.50 | 4.50 | (9, 11) | 3.50 | 98.12 |
| 12 | Edge Coupled Differential | | 100.00 | +/-10 | 3.50 | 4.50 | (11, 13) | 3.50 | 98.12 |
| 12 | Single Ended | | 50.00 | +/-5 | 4.00 | 0.00 | (11, 13) | 4.00 | 50.53 |
| 12 | Single Ended | | 40.00 | +/-4 | 6.00 | 0.00 | (11, 13) | 6.00 | 40.37 |
| 14 | Single Ended | Yes | 50.00 | +/-5 | 4.00 | 0.00 | (13) | 4.00 | 50.25 |
| 14 | Single Ended | Yes | 40.00 | +/-4 | 6.00 | 0.00 | (13) | 6.00 | 40.92 |

* Differential Spacing is measured from the edge line of one differential trace to the edge line of the other.

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This stack-up was created using estimated copper area percentages. (25% signal, 50% mix, 75% plane) Once data is received minor adjustments of traces and pre-preg thickness may occur.

Process Plating Info

Final Assembly - 1/14 = Pattern Plate