



Customer P/N: Part REV

Internal P/N: SIGNAL_LAB_14LAYERS_CS_Rev1_Meg6k_081

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Date: Aug.12.2016

Layer	Cu Thick. (mils)	Cu Foil wt (oz)	DK	Lam. Thick. (mils)	Description
1	2.00	.5 oz			Foil .5 oz
2	1.20	1 oz	3.22	2.38	Prepreg Megtron6 1035(73)
3	1.20	1 oz	3.39	3.90	Core Megtron6 3.90mils 2x1035 1 oz / 1 oz HVLP
4	1.20	1 oz	3.22	4.16	Prepreg Megtron6 1035(73)/1035(73)
5	1.20	1 oz	3.39	3.90	Core Megtron6 3.90mils 2x1035 1 oz / 1 oz HVLP
6	1.20	1 oz	3.22	4.16	Prepreg Megtron6 1035(73)/1035(73)
7	1.20	1 oz	3.42	3.00	Core Megtron6 3.00mils 1078 1 oz / 1 oz HVLP
8	1.20	1 oz	3.22	4.16	Prepreg Megtron6 1035(73)/1035(73)
9	1.20	1 oz	3.42	3.00	Core Megtron6 3.00mils 1078 1 oz / 1 oz HVLP
10	1.20	1 oz	3.22	4.16	Prepreg Megtron6 1035(73)/1035(73)
11	1.20	1 oz	3.39	3.90	Core Megtron6 3.90mils 2x1035 1 oz / 1 oz HVLP
12	1.20	1 oz	3.22	4.16	Prepreg Megtron6 1035(73)/1035(73)
13	1.20	1 oz	3.39	3.90	Core Megtron6 3.90mils 2x1035 1 oz / 1 oz HVLP
14	2.00	.5 oz	3.22	2.38	Prepreg Megtron6 1035(73) Foil .5 oz

Layer	Drill Type	Via Fill	61.56	Thickness over Laminate
1 - 14	PTH	--	65.56	Thickness over Copper
			66.56	Thickness over Soldermask

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	Edge Coupled Differential	Yes	100.00	+/-10	3.75	11.00	(2)	3.75	99.21
1	Single Ended	Yes	50.00	+/-5	4.00	0.00	(2)	4.00	50.25
3	Edge Coupled Differential	---	100.00	+/-10	4.00	9.00	(4, 2)	4.00	99.29
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	Edge Coupled Differential	---	100.00	+/-10	4.00	9.00	(6, 4)	4.00	99.29
5	Single Ended	---	40.00	+/-4	6.00	0.00	(6, 4)	6.00	40.37
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	4.00	9.00	(9, 11)	4.00	99.29
12	Single Ended	---	50.00	+/-5	4.00	0.00	(11, 13)	4.00	50.53
12	Edge Coupled Differential	---	100.00	+/-10	4.00	9.00	(11, 13)	4.00	99.29
12	Single Ended	---	40.00	+/-4	6.00	0.00	(11, 13)	6.00	40.37
14	Edge Coupled Differential	Yes	100.00	+/-10	3.75	11.00	(13)	3.75	99.21
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.

* 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