Date: Aug.11.2016

TTM Technologies
Time-To-Market Interconnect Solutions

Customer P/N: Part REV
Internal P/N: SIGNAL_LAB_14LAYERS_CS_Rev1_Meg6
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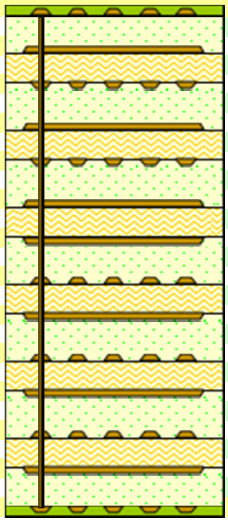
Layer	Cu Thick. (mils)	Cu Foil wt (oz)	DK	Lam. Thick. (mils)	Description
1	2.00	.5 oz			Foil .5 oz
			3.22	2.38	Prepreg Megtron6 1035(73)
2	1.20	1 oz			
			3.39	3.90	Core Megtron6 3.90mils 2x1035 1 oz / 1 oz HVLP
3	1.20	1 oz			
			3.22	4.16	Prepreg Megtron6 1035(73)/1035(73)
4	1.20	1 oz			
			3.39	3.90	Core Megtron6 3.90mils 2x1035 1 oz / 1 oz HVLP
5	1.20	1 oz			
			3.22	4.16	Prepreg Megtron6 1035(73)/1035(73)
6	1.20	1 oz			
			3.42	3.00	Core Megtron6 3.00mils 1078 1 oz / 1 oz HVLP
7	1.20	1 oz			
			3.22	4.16	Prepreg Megtron6 1035(73)/1035(73)
8	1.20	1 oz			
			3.42	3.00	Core Megtron6 3.00mils 1078 1 oz / 1 oz HVLP
9	1.20	1 oz			
			3.22	4.16	Prepreg Megtron6 1035(73)/1035(73)
10	1.20	1 oz			
			3.39	3.90	Core Megtron6 3.90mils 2x1035 1 oz / 1 oz HVLP
11	1.20	1 oz			
			3.22	4.16	Prepreg Megtron6 1035(73)/1035(73)
12	1.20	1 oz			
			3.39	3.90	Core Megtron6 3.90mils 2x1035 1 oz / 1 oz HVLP
13	1.20	1 oz			
			3.22	2.38	Prepreg Megtron6 1035(73)
14	2.00	.5 oz			Foil .5 oz



Layer	Drill Type	Via Fill		
1 - 14	PTH	--	61.56	Thickness over Laminate
			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	Single Ended	Yes	50.00	+/-5	4.00	0.00	(2)	4.00	50.25
3	Single Ended	---	50.00	+/-5	4.00	0.00	(4, 2)	4.00	50.53
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
5	Edge Coupled Differential	---	100.00	+/-10	4.00	9.00	(6, 4)	4.00	99.29
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
10	Single Ended	---	40.00	+/-4	6.00	0.00	(9, 11)	6.00	40.37
10	Single Ended	---	50.00	+/-5	4.00	0.00	(9, 11)	4.00	50.53
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	Single Ended	Yes	40.00	+/-4	6.00	0.00	(13)	6.00	40.92
14	Single Ended	Yes	50.00	+/-5	4.00	0.00	(13)	4.00	50.25

* 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