



Customer: Summit-SC/Univ. Wisconsin

Part Num: APxF

PartRev: K2

Job Name: 51879

User Name: Alina Niculeanu

Req. Thick: 88.5

Calc. Thick: 87.8

Layer	Family	Material	Base CU	Thick	Stackup	Subs	Type	Dk	Df
Silkscreen	Generic	White		0.3					
Soldermask	Taiyo	PSR-4000 BN RED		0.5				3.70	0.021
Lyr1			3/8oz	2.1			M		
Prepreg	EM-890K	1x1078_71		3.5				2.92	0.002
Lyr2			1oz	1.3			P		
Core	EM-890K	3.5		3.5				3.02	0.001
Lyr3			1/2oz	0.6			S		
Prepreg	EM-890K	1x1078_71		3.0				2.92	0.002
Lyr4			1oz	1.3			P		
Core	EM-890K	3.5		3.5				3.02	0.001
Lyr5			1/2oz	0.6			S		
Prepreg	EM-890K	1x1078_71		3.0				2.92	0.002
Lyr6			1oz	1.3			P		
Core	EM-890K	3.5		3.5				3.02	0.001
Lyr7			1/2oz	0.6			M		
Prepreg	EM-890K	1x1078_71		3.1				2.92	0.002
Lyr8			1oz	2.6			M		
Prepreg	EM-37B(Z)	1x106-75		2.0				3.83	0.017
Prepreg	EM-37B(Z)	1x106-75		2.3				3.83	0.017
Prepreg	EM-37B(Z)	1x106-75		1.8				3.83	0.017
Lyr9			4oz	5.4			P		
Core	EM-370(Z)	5.0mils		5.0				3.90	0.017
Lyr10			4oz	5.4			P		
Prepreg	EM-37B(Z)	1x106-75		1.8				3.83	0.017
Prepreg	EM-37B(Z)	1x106-75		2.3				3.83	0.017
Prepreg	EM-37B(Z)	1x106-75		2.0				3.83	0.017
Lyr11			1oz	2.4			M		
Prepreg	EM-890K	1x1078_71		3.1				2.92	0.002
Lyr12			1/2oz	0.6			M		
Core	EM-890K	3.5		3.5				3.02	0.001
Lyr13			1oz	1.3			P		
Prepreg	EM-890K	1x1078_71		2.9				2.92	0.002
Lyr14			1/2oz	0.6			S		
Core	EM-890K	3.5		3.5				3.02	0.001
Lyr15			1oz	1.3			P		
Prepreg	EM-890K	1x1078_71		3.6				2.92	0.002
Lyr16			3/8oz	1.9			M		
Soldermask	Taiyo	PSR-4000 BN RED		0.5				3.70	0.021

Layer	Family	Material	Base CU	Thick	Stackup	Subs	Type	Dk	Df
Silkscreen	Generic	White		0.3					

Required Thickness

Type	Req. Thick	Tol% +	Tol% -	Act. Thick	Measured
Overall	88.5	10.0	10.0	87.8	
Over lamination	83.9	10.0	10.0	83.2	
Over laminate	82.7	10.0	10.0	82.3	
Over metal	87.5	10.0	10.0	86.2	
Sub-assembly 1 - 8				30.6	
Sub-assembly 16 - 11				22.2	
Backdrill 16 - 9				45.1	

Impedance Constraints

Type	Layer	Zone	Exc. Mask	Design Line	Actual Line	Pitch (traces)	Pitch (ground)	Ref Lyr	Target (ohms)	Tol. (ohms)	Predicted (ohms)
Single Ended	Lyr1		No	7.4	6.9			0 / 2	50.00	5.0	49.93
Single Ended	Lyr16		No	7.4	6.9			15 / 0	50.00	5.0	50.15
Differential	Lyr1		No	5.5	5.5	14.5		0 / 2	100.00	10.0	100.81
Differential	Lyr16		No	5.5	5.5	14.5		15 / 0	100.00	10.0	101.14
Differential	Lyr1		No	6.2	6.2	14.5		0 / 2	95.00	9.5	94.31
Single Ended	Lyr3		No	3.6	3.9			2 / 4	50.00	5.0	49.80
Single Ended	Lyr5		No	3.6	3.9			4 / 6	50.00	5.0	49.93
Single Ended	Lyr7		No	3.6	3.9			6 / 8	50.00	5.0	50.53
Single Ended	Lyr12		No	3.6	3.9			11 / 13	50.00	5.0	50.50
Single Ended	Lyr14		No	3.6	3.9			13 / 15	50.00	5.0	49.50
Differential	Lyr3		No	3.4	3.8	10.2		2 / 4	100.00	10.0	99.09
Differential	Lyr5		No	3.4	3.8	10.2		4 / 6	100.00	10.0	99.31
Differential	Lyr7		No	3.4	3.8	10.2		6 / 8	100.00	10.0	100.37
Differential	Lyr12		No	3.4	3.8	10.2		11 / 13	100.00	10.0	100.31
Differential	Lyr14		No	3.4	3.8	10.2		13 / 15	100.00	10.0	98.54
Differential	Lyr3		No	3.7	4.1	10.2		2 / 4	95.00	9.5	94.05
Differential	Lyr5		No	3.7	4.1	10.2		4 / 6	95.00	9.5	94.27
Differential	Lyr7		No	3.7	4.1	10.2		6 / 8	95.00	9.5	95.29

IMAGE MISSING: C:\Program Files (x86)\Arkeo\Arkeo Stack\min_diel.png

Notes