ROYAL CIRCUIT SOLUTIONS

Customer: Advanced Assembly, LLC
Part Num: Time Drive
Part Rev: -

Job Name: 80261
User Name: Vincent
Req. Thick: 34.0

Layer	Base CU / Plt	Thick	Type	Stackup	Subs	Imp	Material
Silkscreen		0.00					Taiyo-SS - White
Soldermask		0.60					Taiyo-SM - Blue
Lyr1	0.25oz / Std	1.80	S		1,2,3,4		
Prepreg		2.73					370HR - 1080_66%_66%
Lyr2	0.5oz	0.60	P				
Core		3.00					370HR - 3.0mils
Lyr3	0.5oz	0.60	S		5,6,7		
Prepreg		2.83					370HR - 1080_71%_71%
Lyr4	0.5oz	0.60	P				
Core		3.00					370HR - 3.0mils
Lyr5	0.5oz	0.60	P				
Prepreg		2.84					370HR - 1080_71%_71%
Lyr6	0.5oz	0.60	P				
Core		3.00					370HR - 3.0mils
Lyr7	0.5oz	0.60	P				
Prepreg		2.83					370HR - 1080_71%_71%
Lyr8	0.5oz	0.60	S		8		
Core		3.00					370HR - 3.0mils
Lyr9	0.5oz	0.60	P				
Prepreg		2.73					370HR - 1080_66%_66%
Lyr10	0.25oz / Std	1.80	S		9,10,11		
Soldermask		0.60					Taiyo-SM - Blue
Silkscreen		0.00					Taiyo-SS - White

Required Thickness

Type	Req. Thick	Tol% +	Tol% -	Act. Thick	Measured
Overall	34.0	10.0	10.0	35.6	
Over lamination	29.8	10.0	10.0	31.4	
Over laminate	29.2	10.0	10.0	30.8	
Over metal	32.8	10.0	10.0	34.4	

Impedance Constraints

#	Type	Layer	Design Line	Actual Line	Pitch (traces)	Spacing (ground)	Ref Lyrs	Target (ohms)	Tolerance (ohms)	Predicted (ohms)
1	Single Ended	Lyr1	4.3	4.3			0 / 2	50.0	5.0	49.0
2	Differential	Lyr1	4.5	4.5	9.5		0 / 2	85.0	8.5	82.0
3	Differential	Lyr1	4.0	4.0	9.3		0 / 2	90.0	9.0	86.8
4	Differential	Lyr1	3.3	3.3	9.3		0 / 2	100.0	10.0	96.2
5	Single Ended	Lyr3	2.2	2.2			2 / 4	50.0	5.0	52.9
6	Differential	Lyr3	2.7	2.7	8.5		2 / 4	90.0	9.0	93.8
7	Differential	Lyr3	2.3	2.3	9.0		2 / 4	100.0	10.0	102.0
8	Single Ended	Lyr8	2.2	2.2			7 / 9	50.0	5.0	52.9

Impedance Constraints

#	Type	Layer	Design Line	Actual Line	Pitch (traces)	Spacing (ground)	Ref Lyrs	Target (ohms)	Tolerance (ohms)	Predicted (ohms)
9	Single Ended	Lyr10	4.3	4.3			9 / 0	50.0	5.0	49.0
10	Differential	Lyr10	4.5	4.5	9.5		9 / 0	85.0	8.5	82.0
11	Differential	Lyr10	3.3	3.3	9.3		9 / 0	100.0	10.0	96.2

Comments