

Customer:  
 Jobname: 046634432  
 P/N: Part

Version 2.1  
 Date 17.8.2009  
 Created by SEBESTA



**Tool ID:** Tool-ID  
**Material:** Low CTE  
**Finish:**

Layer type	Layer name	Material	Via structure	IMP	Cu Foil Thickness [my]	Plating Thickness [my]	after lamination [my]	Dielectric constant @ 1GHz	Minimum Line [my]	Minimum Space [my]	Name	MRP Name	Family
Silk Screen	sst												
Solder Mask	smt												
foil	top	mix 52 0.3 Oz		1xΩ	9	25	9		190.5	158.8	006351239	Circuit Foil, Cu foil DTH-TW 9/70, 520x370	Doublethin
prepreg		IS400ML_2116 [FZ01]					199	4.70			006350095	Isola, IS400ML_2116 [FZ01], 520x300	Low CTE
prepreg		IS400ML_2116 [FZ01]						4.70			006350095	Isola, IS400ML_2116 [FZ01], 520x300	Low CTE
core	02p	pg 73 1 Oz											
		IS400ML_0,96 [4x7628M] 35/35					1044	4.85			999350044	Isola, IS400ML_0,96 [4x7628M] 35/35, 520x300	Low CTE
prepreg	03p	mix 58 1 Oz							304.8	254.0			
prepreg		IS400ML_2116 [FZ01]					194	4.70			006350095	Isola, IS400ML_2116 [FZ01], 520x300	Low CTE
prepreg		IS400ML_2116 [FZ01]						4.70			006350095	Isola, IS400ML_2116 [FZ01], 520x300	Low CTE
foil	bot	mix 61 0.3 Oz		1xΩ	9	25	9		190.5	159.5	006351239	Circuit Foil, Cu foil DTH-TW 9/70, 520x370	Doublethin
Solder Mask	smb												
Silk Screen	ssb												

**Board thickness details**

Specification	[mil]	[mm]	
Overall board thickness	61.81	1.57	
Tolerance +	5.91	0.15	9.6%
Tolerance -	5.91	0.15	9.6%
max board thickness	67.72	1.72	
min board thickness	55.91	1.42	

Anticipated final board thickness	[mil]	[mm]
Thickness after lamination	59.12	1.50
Thickness after lamination incl. plating w/o soldermask	59.12	1.50
Total thickness including soldermask	60.70	1.54

**Impedance Table**

Layer	Ref 1	Ref 2	Model Direction	Impedance Requirement [Ohm]	Tolerance		Type	Impedance Simulation [Ohms]	Manufacturing Tol.		Viable	Design line width [my]	Differential pitch [my]	Designed spacing [my]	Finished Line width [my]	Finished Spacing [my]
					- [Ohms]	+ [Ohms]			- [Ohms]	+ [Ohms]						
top		02p	↑	100	85.0	115.0		99.5	93.1	106.2	✓	190	350	160	190	160
bot		03p	↓	100	90.0	110.0		98.9	92.5	105.6	✓	190	350	160	190	160

