

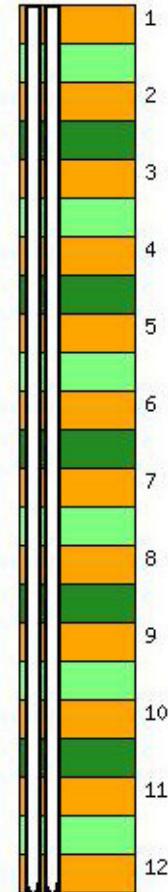
Customer Name: MISTRAL SOLUTIONS PVT LTD
 Customer P/N: PROC105E6
 Customer Rev: E6
 Customer Mat: I-SPEED
 Plant: Wuxi
 Cat/Tool Num: P29_RFS_0557



SANMINA

Lay #	Thick (in)	Picture	Type Dk Df	Description	Drill Picture
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0.0006/0.0013			4.5 0.019	Soldermask	
1	0.0020		F / S / LPHTE	0.5oz w/plating	
	0.0037		3.02 0.0058	fill	
2	0.0013		P / RTF5P	1oz	
	0.0035		3.47 0.0060	core	
3	0.0006		S / RTF5P	0.5oz	
	0.0043		2.95 0.0058	fill	
4	0.0013		P / RTF5P	1oz	
	0.0035		3.47 0.0060	core	
5	0.0006		S / RTF5P	0.5oz	
	0.0042		2.96 0.0058	fill	
6	0.0013		S / RTF5P	1oz	
	0.0100		3.36 0.0060	core	
7	0.0013		S / RTF5P	1oz	
	0.0043		2.95 0.0058	fill	
8	0.0006		S / RTF5P	0.5oz	
	0.0035		3.47 0.0060	core	
9	0.0013		P / RTF5P	1oz	
	0.0043		2.94 0.0058	fill	
10	0.0006		S / RTF5P	0.5oz	
	0.0035		3.47 0.0060	core	
11	0.0013		P / RTF5P	1oz	
	0.0037		3.02 0.0058	fill	
12	0.0020		F / S / LPHTE	0.5oz w/plating	
0.0006/0.0013			4.5 0.019	Soldermask	
	0.0637	Total thickness (in) Over mask on plated copper			
	0.0597	After lamination thickness (in)			
	0.0611	Over laminate thickness (in) (with soldermask)			
	0.0640	Customer Requirement (in)			
	+/-0.0064	Customer Tolerance (in)			



Notes and Recommendations:

Based on 370HR StackUp, changes as following:

1. Core thickness of L2-3, 4-5, 8-9, 10-11 is changed from 4mil to 3.5mil;
2. Core thickness of L6-7 is changed from 3.00mil to 10mil;
3. Dielectric thickness of L3-4,5-6,7-8,9-10 is changed from 5.6mil to 4.3mil;
4. Imp trace width are changed to meet imp value;

Impedance Constraint Information (I)

Imp #	Impedance Type		Affect Layer		Cust L/W	Line Width		CenterToCenter		Ref Plane		Target ohms	Tolerance ohms	Predicted ohms@2GHz
			(1)	(2)		(1)	(2)	(1)	(2)	Top	Bot			
1	EC MS		1	None	0.006	0.0058	0.0058	0.0115		None	2	85	8.5	83.21
2	EC MS		1	None	0.005	0.0048	0.0048	0.0105		None	2	90	9	88.85
3	EC MS		1	None	0.0041	0.0039	0.0039	0.0105		None	2	100	10	98.71
4	EC MS		1	None	0.006	0.0068	0.0068	0.0155		None	4	120	12	119.97
5	Surf MS		1	None	0.011	0.011				None	2	38	3.8	38.00
6	Surf MS		1	None	0.01	0.01				None	2	40	4	40.03
7	Surf MS		1	None	0.0065	0.0065				None	2	50	5	49.43
8	EC SL		3	None	0.00588	0.0057	0.0057	0.012		4	2	80	8	80.56
9	Stripline		3	None	0.00645	0.00625				4	2	40	4	39.33
10	Stripline		3	None	0.004	0.004				4	2	50	5	50.41
11	EC SL		5	None	0.00588	0.00568	0.00568	0.012		6	4	80	8	80.30
12	Stripline		5	None	0.00645	0.00625				6	4	40	4	39.08
13	Stripline		5	None	0.004	0.004				6	4	50	5	50.12
14	EC SL		8	None	0.005	0.0051	0.0051	0.0115		7	9	85	8.5	85.61
15	EC SL		8	None	0.0045	0.0046	0.0046	0.011		7	9	90	9	90.46
16	EC SL		8	None	0.0039	0.0039	0.0039	0.012		7	9	100	10	99.99
17	Stripline		8	None	0.00645	0.00625				7	9	40	4	39.22
18	Stripline		8	None	0.004	0.004				7	9	50	5	50.28
19	EC SL		10	None	0.00635	0.0062	0.0062	0.012		9	11	76	7.6	76.28
20	EC SL		10	None	0.005	0.0051	0.0051	0.0115		9	11	85	8.5	85.83
21	EC SL		10	None	0.0045	0.0046	0.0046	0.011		9	11	90	9	90.69
22	EC SL		10	None	0.0039	0.0039	0.0039	0.012		9	11	100	10	100.24
23	Stripline		10	None	0.007	0.0068				9	11	38	3.8	37.35
24	Stripline		10	None	0.004	0.004				9	11	50	5	50.42
25	EC MS		12	None	0.006	0.0058	0.0058	0.0115		None	11	85	8.5	83.21
26	EC MS		12	None	0.005	0.0048	0.0048	0.0105		None	11	90	9	88.85
27	EC MS		12	None	0.0041	0.0039	0.0039	0.0105		None	11	100	10	98.71
28	Surf MS		12	None	0.0065	0.0065				None	11	50	5	49.43

Trace widths measured at base of trace
All dimensions in inches (unless otherwise noted)

Products built using these specified nominal dimensions will have variation in physical and electrical results based on acceptable manufacturing materials and process tolerance.
This data is intended to provide one possible solution to meet a particular set of impedance and thickness requirements.
If any of these values are attached to fabrication prints, they should be marked as 'reference'.

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