



Job Name : 135611-408HR
Customer : DEBRON INDUSTRIAL
Part Num : 40-00553-00LF
Part Rev :
Engineer : Danny Sekulovski


Layer	Cust Thickness	Calc Thickness	Primary Stack	Description	Dk / Df	
Layer - 1		0.0005		Taiyo 4000-BN 1/4oz Sig (Std Plt)	4.71 / 0.0330	
Layer - 2		0.0017			FR408HR	3.61 / 0.0092
Layer - 3		0.0039			1/2oz P/G	
Layer - 4		0.0006			FR408HR	3.57 / 0.0096
Layer - 5		0.0060			1/2oz Sig	
Layer - 6		0.0006			FR408HR	3.42 / 0.0098
Layer - 7		0.0057			1/2oz P/G	
Layer - 8		0.0006			FR408HR	3.57 / 0.0096
Layer - 9		0.0060			1/2oz Sig	
Layer - 10		0.0006			FR408HR	3.42 / 0.0098
Layer - 11		0.0058			1/4oz P/G (Std Plt)	
Layer - 12		0.0017			FR408HR	3.42 / 0.0098
Layer - 13		0.0053			1/2oz Sig	
Layer - 14		0.0006			FR408HR	3.57 / 0.0096
Layer - 15		0.0060			1/2oz P/G	
Layer - 16		0.0006			FR408HR	3.42 / 0.0098
Layer - 17		0.0057			1/2oz Sig	
Layer - 18		0.0006			FR408HR	3.42 / 0.0098
Layer - 19		0.0060			1/2oz P/G	
Layer - 20		0.0036		FR408HR	3.61 / 0.0092	
Layer - 21		0.0012		1oz P/G		
Layer - 22		0.0060		FR408HR	3.57 / 0.0096	
Layer - 23		0.0012		1oz P/G		
Layer - 24		0.0036		FR408HR	3.61 / 0.0092	
Layer - 25		0.0006		1/2oz P/G		
Layer - 26		0.0060		FR408HR	3.57 / 0.0096	
Layer - 27		0.0006		1/2oz Sig		
Layer - 28		0.0057		FR408HR	3.42 / 0.0098	
Layer - 29		0.0006		1/2oz P/G		
Layer - 30		0.0058		FR408HR	3.42 / 0.0098	
Layer - 31		0.0006		1/2oz Sig		
Layer - 32		0.0060		FR408HR	3.57 / 0.0096	
Layer - 33		0.0006		1/2oz P/G		
Layer - 34		0.0057		FR408HR	3.42 / 0.0098	

Layer	Cust Thickness	Calc Thickness	Primary Stack	Description	Dk / Df
Layer - 20		0.0006		1/2oz Sig	
		0.0060		FR408HR	3.57 / 0.0096
Layer - 21		0.0006		1/2oz P/G	
		0.0039		FR408HR	3.61 / 0.0092
Layer - 22		0.0017		1/4oz Sig (Std Plt)	
		0.0005		Taiyo 4000-BN	4.71 / 0.0330

Requirement	Req. Thickness	Tol +	Tol -	Calc Thick
Incl. Plating & Mask	0.1350	0.0135	0.0135	0.1335
Incl. Mask over Laminate	0.1316	0.0132	0.0132	0.1301
Incl. Plating	0.1340	0.0134	0.0134	0.1325
After Lamination	0.1312	0.0066	0.0066	0.1297
Over Laminate	0.1306	0.0131	0.0131	0.1291
Sub Assembly L1 - L6				0.0304
Sub Assembly L17 - L22				0.0307

Impedance Type	Layer	Design	Actual	Plotted	Pitch	Plane	Target	Tol (ohms)	Predict
1 EC Microstrip	L1	0.00550	0.0056	0.00598	0.0157	-	100	10	100.82
	-	0.00550	0.0056	0.00598	-	L2			
2 Stripline	L3	0.00470	0.0043	0.0048	-	L2	60	6	59.67
	-	-	-	-	-	L4			
3 EC Stripline	L3	0.00550	0.0057	0.0062	0.0157	L2	100	10	100.91
	-	0.00550	0.0057	0.0062	-	L4			
4 Stripline	L5	0.00470	0.0043	0.0048	-	L4	60	6	59.93
	-	-	-	-	-	L6			
5 EC Stripline	L5	0.00550	0.0057	0.0062	0.0157	L4	100	10	101.32
	-	0.00550	0.0057	0.0062	-	L6			
6 Stripline	L9	0.00470	0.0043	0.0048	-	L8	60	6	59.67
	-	-	-	-	-	L10			
7 EC Stripline	L9	0.00550	0.0057	0.0062	0.0157	L8	100	10	100.91
	-	0.00550	0.0057	0.0062	-	L10			
8 EC Stripline	L16	0.00550	0.0057	0.0062	0.0157	L15	100	10	100.91
	-	0.00550	0.0057	0.0062	-	L17			
9 Stripline	L18	0.00470	0.0043	0.0048	-	L17	60	6	59.93
	-	-	-	-	-	L19			
10 EC Stripline	L18	0.00550	0.0057	0.0062	0.0157	L17	100	10	101.32
	-	0.00550	0.0057	0.0062	-	L19			
11 Stripline	L20	0.00470	0.0043	0.0048	-	L19	60	6	59.67
	-	-	-	-	-	L21			



Impedance Type	Layer	Design	Actual	Plotted	Pitch	Plane	Target	Tol (ohms)	Predict
12  EC Stripline	L20	0.00550	0.0057	0.0062	0.0157	L19	100	10	100.91
	-	0.00550	0.0057	0.0062	-	L21			

Bill Of Materials

Material	Material Description	Qty per Panel
FR408HR 0.0060 (2-1080) 1 1	Isola - High Speed High-Tg FR4	1
FR408HR 0.0060 (2-1080) H 1	Isola - High Speed High-Tg FR4	1
FR408HR 0.0060 (2-1080) H H	Isola - High Speed High-Tg FR4	7
HTE6P	Copper Foil HTESHINY6%	4
FR408HR 1080	Isola - High Speed High-Tg FR4	16
FR408HR 2113	Isola - High Speed High-Tg FR4	4