stack-up

Material:IT180A

Thickness:0.89mm +/-10% Over soldermask

Layer Name	Original design		Founder's suggestion			
	Build - up	Dielectric thickness (unit mil)	Dielectric thickness (unit mil)	Build - up	Copper Type	DK (1GHz)
L1	0.5oz+plating		0.5oz+plating		H T E	
	PP		3.24	PP 1080*1		3.69
L2	1oz		1oz		H T E	
	CORE		3.94	CORE 2116*1		3.94
L3	0.5oz		0.5oz		H T E	
	PP		11.85	PP 2313*3		3.97
L4	0.5oz		0.5oz		H T E	
	CORE		3.94	CORE 2116*1		3.94
L5	1oz		1oz		H T E	
	PP		3.24	PP 1080*1		3.69
L6	0.5oz+plating		0.5oz+plating		H T E	

Single impedance list

Layer name	Original design		Founder's suggestion		Reference layer
	line width(unit:mil)	impedance(unit:ohm)	line width(unit:mil)	impedance (unit:ohm)	
L1			5.1	51+/-5.1	L2
L1			4.5	54+/-5.4	L2
L1			3.5	60+/-6	L2
L1			5.3	50+/-5	L2
L1			54	50+/-5	L6
L3			4.8	51+/-5.1	L4&L2
L3			4.2	54+/-5.4	L4&L2
L3			3.3	60+/-6	L4&L2
L3			5	50+/-5	L4&L2
L6			5.1	51+/-5.1	L5
L6			4.5	54+/-5.4	L5
L6			3.5	60+/-6	L5
L6			5.3	50+/-5	L5

Differential impedance list

Layer name	Original design		Founder's suggestion		Reference layer
	line width/space(unit:mil)	impedance(unit:ohm)	line width/space(unit:mil)	impedance(unit:ohm)	
L1			5.11/4.6	85+/-8.5	L2
L1			4.51/4.8	90+/-9	L2
L1			3.51/5	100+/-10	L2
L3			3.31/4.5	100+/-10	L4&L2
L3			4.21/4.2	90+/-9	L4&L2
L3			4.81/4.1	85+/-8.5	L4&L2
L6			5.11/4.6	85+/-8.5	L5
L6			4.51/4.8	90+/-9	L5
L6			3.51/5	100+/-10	L5