



#	Layer	Thickness	Description	Note
	Top Solder	0.015mm	Soldermask IPC-SM840	used on rigid parts
	Top Surface Finish	0.006mm		
1	Top Side	0.030mm	Starting foil 1/4oz. after plating and processing	
		0.065mm	Prepreg IPC-4101/127/128	FR-4.1 filled, halogen free
2	Inner Layer 1	0.030mm	Starting foil 1/4oz. after plating and processing	
		0.065mm	Prepreg IPC-4101/127/128	FR-4.1 filled, halogen free
3	Inner Layer 2	0.017mm	ED Base Copper	
		0.150mm	Core IPC-4101/127/128	FR-4.1 filled, halogen free
4	Inner Layer 3	0.017mm	ED Base Copper	
		0.125mm	Prepreg IPC-4101/127/128	FR-4.1 filled, halogen free
5	Inner Layer 4	0.017mm	ED Base Copper	
		0.150mm	Core IPC-4101/127/128	FR-4.1 filled, halogen free
6	Inner Layer 5	0.017mm	ED Base Copper	
		0.125mm	Prepreg IPC-4101/127/128	FR-4.1 filled, halogen free
7	Inner Layer 6	0.017mm	ED Base Copper	
		0.150mm	Core IPC-4101/127/128	FR-4.1 filled, halogen free
8	Inner Layer 7	0.017mm	ED Base Copper	
		0.125mm	Prepreg IPC-4101/127/128	FR-4.1 filled, halogen free
9	Inner Layer 8	0.017mm	ED Base Copper	
		0.150mm	Core IPC-4101/127/128	FR-4.1 filled, halogen free
10	Inner Layer 9	0.017mm	ED Base Copper	
		0.065mm	Prepreg IPC-4101/127/128	FR-4.1 filled, halogen free
11	Inner Layer 10	0.030mm	Starting foil 1/4oz. after plating and processing	
		0.065mm	Prepreg IPC-4101/127/128	FR-4.1 filled, halogen free
12	Bottom Side	0.030mm	Starting foil 1/4oz. after plating and processing	
	Bottom Surface Finish	0.006mm		
	Bottom Solder	0.015mm	Soldermask IPC-SM840	used on rigid parts

**Total thickness: 1.532mm**

notes:

Final copper thicknesses according to IPC-6012

Standard: Surface Finish ENIG  
(Ni 5.5 µm ± 1.5 µm, Au 0.075 µm ± 0.025 µm)

Please follow our sectional design rules:  
► [www.we-online.com/designrules/shdi\\_en](http://www.we-online.com/designrules/shdi_en)

For impedance matching stackups: Please consult our specialists: [HDI@we-online.com](mailto:HDI@we-online.com)

**HDI12\_1-10b-1\_153\_17\_2V13**

PCB Thickness Tolerance: ± 10%

customer		created	
pcb name		approved	
engineer		format	A4, landscape
date			

Template Revision: 10/2023 by Andreas Schilpp / Michael Kress / Werner Öchslen



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