

Rigid

# Layer	Thickness	Description	Dk	Df	Note
Top Solder	0.015mm	Soldermask IPC-SM840	3,5	0,028	used on rigid parts
1 Top Side	0.040mm	Starting foil 1/4oz. after plating and processing			
	0.065mm	Prepreg IPC-4101/127/128	3,5	0,011	FR-4.1 filled, halogen free
2 Inner Layer 1	0.017mm	ED Base Copper			
	0.360mm	Core IPC-4101/127/128	4,7	0,011	FR-4.1 filled, halogen free
	0.180mm	Prepreg IPC-4101/127/128	3,9	0,011	FR-4.1 filled, halogen free
3 Inner Layer 2	0.017mm	ED Base Copper			
	0.050mm	Flexible core IPC-4204/11	3,4	0,002	Flex Polyimide adhesiveless
4 Inner Layer 3	0.017mm	ED Base Copper			
	0.060mm	IPC-4101/127/128 + IPC-4203/1	3,2	0,011	MIX layer Prepreg + Bondply
5 Inner Layer 4	0.017mm	ED Base Copper			
	0.050mm	Flexible core IPC-4204/11	3,4	0,002	Flex Polyimide adhesiveless
6 Inner Layer 5	0.017mm	ED Base Copper			
	0.180mm	Prepreg IPC-4101/127/128	3,9	0,011	FR-4.1 filled, halogen free
	0.360mm	Core IPC-4101/127/128	4,7	0,011	FR-4.1 filled, halogen free
7 Inner Layer 6	0.017mm	ED Base Copper			
	0.065mm	Prepreg IPC-4101/127/128	3,5	0,011	FR-4.1 filled, halogen free
8 Bottom Side	0.040mm	Starting foil 1/4oz. after plating and processing			
Bottom Solder	0.015mm	Soldermask IPC-SM840	3,5	0,028	used on rigid parts

Total thickness: 1.582mm

notes:	FLEX8_2Ri-4F-2Ri_1,58_17_V2.12		
Final copper thickness according to IPC-6013	PCB Thickness Tolerance: rigid $\pm 10\%$ / flex $\pm 0,05\text{mm}$		
IPC 2223 use A "Flex to install"	customer	created	
	pcb name	approved	
Please regard to our sectional design rules: ► www.we-online.com	engineer	format	A4, landscape
	date		
Template Revision: 02/2021 by Andreas Schilpp / Michael Kress / Werner Öchslen			



Flex

# Layer	Thickness	Description	Dk	Df	Note
Flex Top Coverlay	0.030mm	PI Coverlay IPC-4203/1	3,6	0,02	Polyimide + bonding film (Acrylic)
3 Inner Layer 2	0.017mm	ED Base Copper			
	0.050mm	Flexible core IPC-4204/11	3,4	0,002	Flex Polyimide adhesiveless
4 Inner Layer 3	0.017mm	ED Base Copper			
	0.060mm	IPC-4101/127/128 + IPC-4203/1	3,2	0,011	MIX layer Prepreg + Bondply
5 Inner Layer 4	0.017mm	ED Base Copper			
	0.050mm	Flexible core IPC-4204/11	3,4	0,002	Flex Polyimide adhesiveless
6 Inner Layer 5	0.017mm	ED Base Copper			
Flex Bottom Coverlay	0.030mm	PI Coverlay IPC-4203/1	3,6	0,02	Polyimide + bonding film (Acrylic)
Total thickness: 0.288mm					

notes:	FLEX8_2Ri-4F-2Ri_1,58_17_V2.12		
Final copper thickness according to IPC-6013	PCB Thickness Tolerance: rigid $\pm 10\%$ / flex $\pm 0,05\text{mm}$		
IPC 2223 use A "Flex to install"	customer	created	
	pcb name	approved	
Please regard to our sectional design rules: ► www.we-online.com	engineer	format	A4, landscape
	date		
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