

# Rigid

# 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
	0.100mm	Core IPC-4101/127/128	FR-4.1 filled, halogen free
	0.174mm	Prepreg IPC-4101/127/128	FR-4.1 filled, halogen free
2 Inner Layer 1	0.017mm	ED Base Copper	
	0.050mm	Flexible core IPC-4204/11	Flex Polyimide adhesiveless
3 Inner Layer 2	0.017mm	ED Base Copper	
	0.060mm	IPC-4101/127/128 + IPC-4203/1	MIX layer Prepreg + Bondply
4 Inner Layer 3	0.017mm	ED Base Copper	
	0.050mm	Flexible core IPC-4204/11	Flex Polyimide adhesiveless
5 Inner Layer 4	0.017mm	ED Base Copper	
	0.180mm	Prepreg IPC-4101/127/128	FR-4.1 filled, halogen free
	0.100mm	Core IPC-4101/127/128	FR-4.1 filled, halogen free
	0.065mm	Prepreg IPC-4101/127/128	FR-4.1 filled, halogen free
6 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

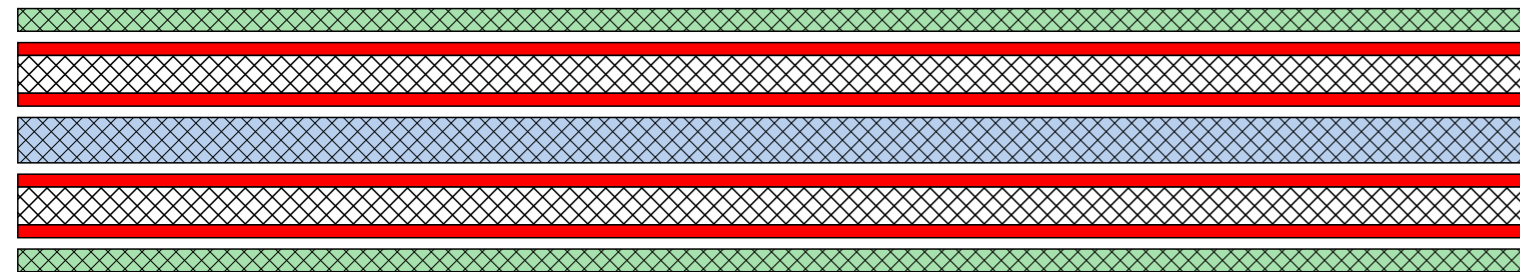
**Total thickness: 1.013mm**

notes:		<b>FLEX6_1Ri-4F-1Ri_101_17_2V13</b>		
Final copper thicknesses according to IPC-6013	Please follow our sectional design rules: ▶ <a href="http://www.we-online.com/designrigidflex">www.we-online.com/designrigidflex</a>	PCB Thickness Tolerance: rigid ± 10% / flex ± 0,05mm		
IPC-2223 use A "Flex to install"	For impedance matching stackups: Please consult our specialists: <a href="mailto:FLEX@we-online.com">FLEX@we-online.com</a>	customer	created	
Standard: Surface Finish ENIG (Ni 5.5 µm ± 1.5 µm, Au 0.075 µm ± 0.025 µm)		pcb name	approved	
		engineer	format	A4, landscape
		date		
Template Revision: 10/2023 by Andreas Schilpp / Michael Kress / Werner Öchslen				



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# Flex



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

notes:		<b>FLEX6_1Ri-4F-1Ri_101_17_2V13</b>			
Final copper thicknesses according to IPC-6013	Please follow our sectional design rules: ▶ <a href="http://www.we-online.com/designrigidflex">www.we-online.com/designrigidflex</a>	PCB Thickness Tolerance: rigid ± 10% / flex ± 0,05mm			
IPC-2223 use A "Flex to install"	For impedance matching stackups: Please consult our specialists: <a href="mailto:FLEX@we-online.com">FLEX@we-online.com</a>	customer		created	
Standard: Surface Finish ENIG (Ni 5.5 µm ± 1.5 µm, Au 0.075 µm ± 0.025 µm)		pcb name		approved	
		engineer		format	A4, landscape
		date			
Template Revision: 10/2023 by Andreas Schilpp / Michael Kress / Werner Öchslen					



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