

Rigid

#	Layer	Thickness	Description	Dk	Df	Note
	Top Solder	0.020mm	Soldermask JIS-C-5012/IPC-SM840	4,3	0,05	flexibel, photosensitive
1	Top Side	0.030mm	Starting foil 1/4oz. after plating and processing			
		0.005mm	Flexible core IPC-4204/11	3,4	0,003	Flex Polyimide adhesiveless
		0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
2	Inner Layer 1	0.018mm	Plated HDI inner layer after plating and processing			
		0.005mm	Flexible core IPC-4204/11	3,4	0,003	Flex Polyimide adhesiveless
		0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
3	Inner Layer 2	0.018mm	Plated HDI inner layer after plating and processing			
		0.005mm	Flexible core IPC-4204/11	3,4	0,003	Flex Polyimide adhesiveless
		0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
4	Inner Layer 3	0.018mm	Plated HDI inner layer after plating and processing			
		0.050mm	Flexible core IPC-4204/11	3,4	0,002	Flex Polyimide adhesiveless
5	Inner Layer 4	0.018mm	Plated HDI inner layer after plating and processing			
		0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
		0.005mm	Flexible core IPC-4204/11	3,4	0,003	Flex Polyimide adhesiveless
6	Inner Layer 5	0.018mm	Plated HDI inner layer after plating and processing			
		0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
		0.005mm	Flexible core IPC-4204/11	3,4	0,003	Flex Polyimide adhesiveless
7	Inner Layer 6	0.018mm	Plated HDI inner layer after plating and processing			
		0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
		0.005mm	Flexible core IPC-4204/11	3,4	0,003	Flex Polyimide adhesiveless
8	Bottom Side	0.030mm	Starting foil 1/4oz. after plating and processing			
	Bottom Solder	0.020mm	Soldermask JIS-C-5012/IPC-SM840	4,3	0,05	flexibel, photosensitive
Total thickness: 0.378mm						

notes:	FLEX8_8F_0,38_12_V2.12				
Final copper thickness according to IPC-6013	PCB Thickness Tolerance: rigid ± 10% / flex ± 0,05mm				
	customer		created		
IPC 2223 use A "Flex to install"	pcb name		approved		
	engineer		format	A4, landscape	
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	Template Revision: 02/2021 by Andreas Schilpp / Michael Kress / Werner Öchslen				

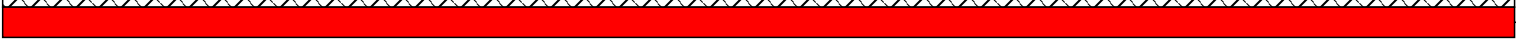
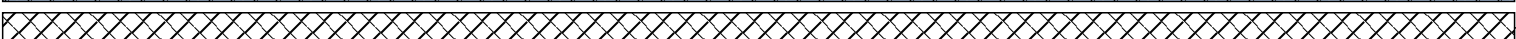
Flex

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						0.005mm	Flexible core IPC-4204/11	3,4	0,003	Flex Polyimide adhesiveless
						0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
				2	Inner Layer 1	0.018mm	Plated HDI inner layer after plating and processing			
						0.005mm	Flexible core IPC-4204/11	3,4	0,003	Flex Polyimide adhesiveless
						0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
				3	Inner Layer 2	0.018mm	Plated HDI inner layer after plating and processing			
						0.005mm	Flexible core IPC-4204/11	3,4	0,003	Flex Polyimide adhesiveless
						0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
				4	Inner Layer 3	0.018mm	Plated HDI inner layer after plating and processing			
						0.050mm	Flexible core IPC-4204/11	3,4	0,002	Flex Polyimide adhesiveless
				5	Inner Layer 4	0.018mm	Plated HDI inner layer after plating and processing			
						0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
						0.005mm	Flexible core IPC-4204/11	3,4	0,003	Flex Polyimide adhesiveless
				6	Inner Layer 5	0.018mm	Plated HDI inner layer after plating and processing			
						0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
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				7	Inner Layer 6	0.018mm	Plated HDI inner layer after plating and processing			
						0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
						0.005mm	Flexible core IPC-4204/11	3,4	0,003	Flex Polyimide adhesiveless

Total thickness: 0.278mm

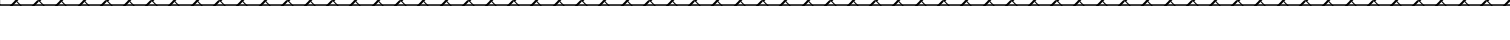
notes:	FLEX8_8F_0,38_12_V2.12				
Final copper thickness according to IPC-6013	PCB Thickness Tolerance: rigid ± 10% / flex ± 0,05mm				
	customer		created		
IPC 2223 use A "Flex to install"	pcb name		approved		
	engineer		format	A4, landscape	
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	#	Layer	Thickness	Description	Dk	Df	Note
			0.005mm	Flexible core IPC-4204/11	3,4	0,003	Flex Polyimide adhesiveless
			0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
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			0.050mm	Flexible core IPC-4204/11	3,4	0,002	Flex Polyimide adhesiveless
	5	Inner Layer 4	0.018mm	Plated HDI inner layer after plating and processing			
			0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
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			0.015mm	Bonding film IPC-4204/2 (part of)	3	0,019	Flexible Adhesive (Epoxy)
			0.005mm	Flexible core IPC-4204/11	3,4	0,003	Flex Polyimide adhesiveless
Total thickness: 0.242mm							

notes:	FLEX8_8F_0,38_12_V2.12				
Final copper thickness according to IPC-6013	PCB Thickness Tolerance: rigid ± 10% / flex ± 0,05mm				
	customer		created		
IPC 2223 use A "Flex to install"	pcb name		approved		
	engineer		format	A4, landscape	
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			0.005mm	Flexible core IPC-4204/11	3,4	0,003	Flex Polyimide adhesiveless
Total thickness: 0.206mm							

notes:	FLEX8_8F_0,38_12_V2.12				
Final copper thickness according to IPC-6013	PCB Thickness Tolerance: rigid ± 10% / flex ± 0,05mm				
	customer		created		
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