

SYNTERGY ELECTRONICS - RIGID-FLEX PCB MANUFACTURE CAPABILITIES		
No	ITEM	STANDARD
1	Material	FCCL (adhesive)
2		FCCL (adhesiveless)
3		Coverlay
4		Adhesive
5		PI Stiffener
6		3M
7		NO FLOW PP
8		CCL
9		Other CCL
10	Others	Design Software
11		Gerber format
12		Drill format
13		Layer
14		Board thickness
15		Tolerance of board thickness (thickness>1.0mm)
16		Tolerance of board thickness (thickness≤1.0mm)
17		Min. board size
18		Max. board size
19		Impedance control tolerance
20		HDI
21		Min. bow & twist
22	Inner layer	Ecobond width
23		Min. line width/spacing (12/18um copper)
24		Min. line width/spacing (35um copper)
25		Min. line width/spacing (70um copper)
26		Annular ring (blind via)
27	Outer Layer	Max. copper thickness
28		Min. line width/spacing (18um copper)
29		Min. line width/spacing (35um copper)
30		Min. line width/spacing (70um copper)
31		Min. line width/spacing (105um copper)
32		Min. line width/spacing (18um copper, flex on the surface of board)
33		Min. line width/spacing (35um copper, flex on the surface of board)
34		Min. line width/spacing (70um copper, flex on the surface of board)
35		Min BGA pad size
36		Max. finished copper thickness
37	Drilling	Blind via
38		Max. buried via
39		Aspect ratio (mechanical drill)
40		Aspect ratio (laser drill)
41		Min. distance between via and conductors
42		Min. distance between blind via and conductors
43		Tolerance of non-plated holes
44	Solder mask and silk screen	Solder mask color
45		Min. solder dam (copper ≤1oz)
46		Min. solder dam (copper2-4oz)
47		Min. clearance
48		Diameter of plugged hole
49		Aspect ratio (hole plugged with non-conductive resin)
50		Silk color
51	Surface treatment	Surface treatment
52		Mixed surface treatment
53		Gold thickness (ENIG)
54		Nickel thickness (ENIG)
55		Gold thickness (ENEPIG)
56		Palladium thickness (ENEPIG)
57		Nickel thickness (ENEPIG)
		Hard gold thickness (leadless)

58	Hard gold thickness (including lead)	0.1 - 4.0um
59	Electrolytic Nickel thickness	$\geq 3\mu m$
60	Electrolytic Gold thickness	0.05-0.10um
61	Immersion silver thickness	0.2-0.4um
62	OSP thickness	0.1 - 0.3um
53	Routing	Tolerance of board outline $\pm 6\text{mil}$ (exclude complicated board outline and cutout)