
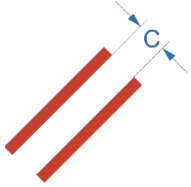
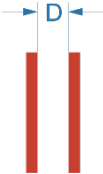

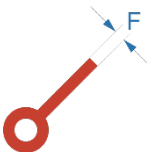



Technical Specifications for Flexible Printed Circuit Board On Cellulose Paper Substrate

Jun. 22, 2017

GAPS AND WIDTHS

NAME	GRAPHIC	VALUE
Minimum horizontal air gap		0.4 mm
Minimum 45° air gap		0.4 mm
Minimum vertical air gap		0.5 mm
Minimum horizontal track width		0.35 mm
Minimum 45° track width		0.4 mm
Minimum vertical track width		0.4 mm

Sheet Resistance

Type A: 30 mΩ/sq; **Type B:** 15 mΩ/sq; **Type C:** 5 mΩ/sq.

Current Carrying Capacity

Example:

A track 1.5 mm wide on 5 μ m copper will heat to approx. 10°C above room temperature when a 1.1 A current is applied. These values may vary greatly depending on the structure of the board and on the environment and air circulation.

Thickness	Track Width	Max. Current Depending on Temperature Increase				
		10°C	20°C	30°C	45°C	60°C
Temperature		10°C	20°C	30°C	45°C	60°C
Type A	0.25 mm	0.2	0.3	0.4	0.5	0.6
	0.50 mm	0.4	0.6	0.8	0.9	1.1
	1.00 mm	0.8	1.1	1.4	1.6	1.8
	1.50 mm	1.1	1.4	1.7	2.0	2.5
	2.00 mm	1.4	1.9	2.5	2.8	3.2
	3.00 mm	1.7	2.5	3.0	3.6	4.2
	4.00 mm	2.3	3.2	3.8	4.5	5.1
	5.00 mm	2.6	3.8	4.5	5.5	6.0
	6.00 mm	2.8	4.2	5.3	6.0	6.8
	8.00 mm	3.4	5.3	6.4	0.8	8.5
10.00 mm	3.8	6.0	7.5	8.7	9.8	
Type B	0.25 mm	0.3	0.4	0.5	0.7	0.9
	0.50 mm	0.5	0.9	1.1	1.3	1.6
	1.00 mm	1.2	1.6	1.9	2.2	2.6
	1.50 mm	1.6	2.0	2.5	2.8	3.5
	2.00 mm	2.0	2.7	3.5	4.0	4.5
	3.00 mm	2.4	3.5	4.3	5.1	5.9
	4.00 mm	3.2	4.5	5.3	6.4	7.2
	5.00 mm	3.7	5.3	6.4	7.7	8.6
	6.00 mm	4.0	5.9	7.5	8.6	9.6
	8.00 mm	4.8	7.5	9.1	1.1	12.0
10.00 mm	5.3	8.6	10.7	12.3	13.9	