



BOSCO Printed Circuits (Pty) Ltd.

Current-carrying capacity of Copper tracks on base material						
Copper Thickness	Track Width (mm)	Maximum Current in Amps (A) based on Temperature Increase				
Temperature Increase (°C)		10°C	20°C	30°C	45°C	60°C
35 micron Copper	0.25	0.5	0.8	1.0	1.3	1.6
	0.50	1.0	1.6	2.0	2.5	3.0
	1.00	2.2	3.0	3.6	4.2	4.8
	1.50	3.0	3.8	4.6	5.3	6.5
	2.00	3.8	5.0	6.5	7.5	8.5
	3.00	4.5	6.5	8.0	9.5	11.0
	4.00	6.0	8.5	10.0	12.0	13.5
	5.00	7.0	10.0	12.0	14.5	16.0
	6.00	7.5	11.0	14.0	16.0	18.0
	8.00	9.0	14.0	17.0	20.0	22.5
	10.00	10.0	16.0	20.0	23.0	26.0
70 micron Copper	0.25	1.0	1.6	2.0	2.5	3.0
	0.50	2.0	2.8	3.5	4.0	4.5
	1.00	3.5	4.7	5.8	6.8	8.0
	1.50	4.5	6.2	7.5	9.0	10.5
	2.00	6.0	8.5	10.0	12.0	13.5
	3.00	7.5	11.0	14.0	16.0	18.0
	4.00	9.0	13.5	17.0	19.0	22.0
	5.00	10.0	15.0	19.0	23.0	25.0
	6.00	11.0	18.0	22.0	26.0	28.0

Note: These values may vary significantly depending on Pcb structure and on enviromental & air circulation.