

## Printed Circuit Board Track or Trace Current Carrying Capacity per mil std 275

The table below gives an indication of the temperature rise, above ambient, of a track at a continuous current rate. It assumes that any holes in the track are filled with solder

Temp Rise		10 C			20 C			30 C		
Copper Foil Weight		1/2 oz.	1 oz.	2 oz.	1/2 oz.	1 oz.	2 oz.	1/2 oz.	1 oz.	2 oz.
Foil Thickness In Microns		17.5	35	70	17.5	35	70	17.5	35	70
Trace Width		Current Amps								
inches	mm									
.010	0.25	.5	1.0	1.4	0.6	1.2	1.6	.7	1.5	2.2
.015	0.38	.7	1.2	1.6	0.8	1.3	2.4	1.0	1.6	3.0
.020	0.51	.7	1.3	2.1	1.0	1.7	3.0	1.2	2.4	3.6
.025	0.64	.9	1.7	2.5	1.2	2.2	3.3	1.5	2.8	4.0
.030	0.76	1.1	1.9	3.0	1.4	2.5	4.0	1.7	3.2	5.0
.050	1.27	1.5	2.6	4.0	2.0	3.6	6.0	2.6	4.4	7.3
.075	1.90	2.0	3.5	5.7	2.8	4.5	7.8	3.5	6.0	10.0
.100	2.54	2.6	4.2	6.9	3.5	6.0	9.9	4.3	7.5	12.5
.200	5.08	4.2	7.0	11.5	6.0	10.0	11.0	7.5	13.0	20.5
.250	6.35	5.0	8.3	12.3	7.2	12.3	20.0	9.0	15.0	24.5

In general, Vero Technologies Ltd.'s products use 1oz copper foil (thickness 35 microns)

Track width for Veroboard is 1.90 mm (0.075 in). But allow for the holes!

Typical backplane signal track is 0.3mm (0.012 in), but overall thickness is 60 microns