

## Design Guidelines

### Soluboard® : The World's First Fully Biodegradable PCB Laminate

International Patent | WO 2018/234801

#### Overview

Soluboard® CCL is a unique thermoplastic laminate system created using natural fibres and a water-soluble polymer. It has a reduced carbon footprint compared to other incumbent substrates and can be recycled at end-of-life without the need for incineration. Soluboard® CCL is compatible with single-sided, double-sided and plated through hole (PTH) PCB technologies.

#### Laminate Properties

Characteristic	Unit	Value
Cu Thickness	Microns	9 – 140
Flammability	-	V1

#### Mechanical

Specification	Unit	Value
Minimum Track and Gap	mm	0.15
Minimum Annular Ring	mm	0.15
Minimum Feature to Profile	mm	0.40
Minimum Hole Diameter	mm	0.35
Minimum Slot Diameter	mm	1.00
Hole Size Tolerance	mm	+/- 0.05
Rout/Scoring Positional Tolerance	mm	+/- 0.30
Panel Dimension	mm	610 x 457
Panel Thickness	mm	0.50 – 3.20 (+/- 15%)

#### Finishing

Feature	Unit	Value
Soldermask Colour	-	Green/White/Grey/Black/Blue/Red/Clear
Minimum Soldermask Clearance to Cu	mm	0.05
Minimum Soldermask Feature	mm	0.25
Silkscreen/Legend/Ident Colour	-	White/Black/Yellow
Minimum Silkscreen Clearance to Cu	mm	0.25
Minimum Silkscreen Feature	mm	0.25
Surface Finish	-	Immersion Silver/Immersion Tin/OSP