

## Basic price list

2 Layers	222 €	»	4 WDS
4 Layers	444 €	»	6 WDS
6 Layers	666 €	»	8 WDS
8 Layers	888 €	»	10 WDS

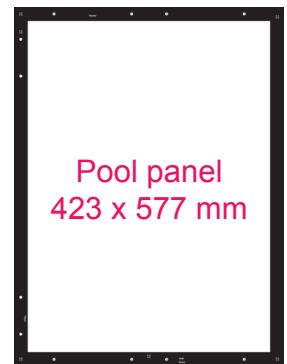
### IMS material (aluminium)

Basic price: 288 € » 6 WD

(Subject to material availability)

## Description

Our offer is for a pool panel measuring **423 x 577 mm**. For smaller layouts the printed circuit board is reproduced with the best possible capacity of the available panel. The reproduction is subject to technical restrictions (spacing from PCB to PCB generally 8 mm). We guarantee an error-free output volume of at least 60%. If only one PCB will fit on the pool panel, at least two pool panels must be ordered (see optional price list). Different layouts per pool panel are not permitted as part of this offer. All products are UL-licensed (except IMS) and are RoHS-compliant. The production standard is IPC A600 Class 2 (min. hole copper 20 µm). Please see our extra charge system panel design uses and complex milling programs.



## DESIGN

2-layer base material	e.g. Ventec VT-481 or similar, depending on availability
Multilayer base material	e.g. Ventec VT-481 / Isola IS400 or similar, depending on availability
IMS material (aluminium)	e.g. Ventec VT4A1 or similar, depending on availability
Final thickness	1,60 mm +/- 10%
Final copper thickness on external layers	35 µm
Final copper thickness on internal layers	18 µm or 35 µm
Surface	HAL lead-free
Soldermask	Peters Elpemer 2467 (green matt)
Standard prepegs	e.g. 106 / 1080 / 2116 / 7628 (other types on request)
Standard cores (mm)	0,1 – 1,46 (special stackups on request)

**Please note: a symmetrical stackup is required.**

## LAYOUT

Conductor width/Spacing	0.10 mm (for 18 µm base copper)
Min. residual root solder stop-off	0.10 mm (for 18 µm base copper)
Final diameter tolerance	
• Plated drills < 6.00 mm	+/- 0.10 mm
• Non-plated drills < 6.00 mm	+/- 0.05 mm
• Routing (inner/outer)	+/- 0.10 mm

**Boreholes over 4.00 mm will be milled**

**We hope our quotation will find your approval and are looking forward to receiving your order.** Is your specification not listed? We would be pleased to provide you an individual offer. Inquiries to: [anfrage@mos-electronic.de](mailto:anfrage@mos-electronic.de)



Not fast enough?  
Ask about our express service options.

OPTIONS	
<b>Layout and final thickness</b>	
Conductor width / Spacing 70 µm min. (for 18 µm base copper)	90 €
Final thickness > 1.00 mm to 2.00 mm +/- 10%	No extra charge
Final thickness > 2.00 mm to 3.20 mm +/- 10%	20 €
<b>Final copper thicknesses</b>	
External layers 70 µm (conductor width / spacing 150 µm min.)	No extra charge
External layers 105 µm (min. conductor width 140 µm / min. spacing 210 µm)	35 €
Internal layers 70 µm (min. conductor width 140 µm / min. spacing 210 µm)	35 €
Internal layers 105 µm (min. conductor width 210 µm / min. spacing 340 µm)	50 €
<b>IMS material (aluminium)</b>	
Thickness 1.00 mm or 1.60 mm (special thickness available on request)	No extra charge
Final copper thickness 35 µm or 70 µm	No extra charge
Thermal conductivity e.g. 1.6 W/mK (VT4A1), further on request	No extra charge
<b>Please note for IMS materials: min. milling diameter: 2.00 mm. Min. hole diameter 1.00 mm. Extra charge may apply if you require complex milling programs or lots of parts on the pool panel.</b>	
<b>Mechanics</b>	
Panel design with v-cut only	40 €
Panel design with milling only	60 €
Panel design with v-cut and milling	80 €
<b>Please note: Our standard mills are 2.0 and 2.4 mm in diameter. Extra charge may apply to thinner mills and complex milling programs.</b>	
<b>Surfaces</b>	
Entek (OSP) / immersion tin (1.0 µm min.) / immersion silver	40 €
ENIG (3-5 µm Ni / 0.05-0.15 µm Au)	80 €
<b>Printing</b>	
Legend ink (silkscreen) on each side (white)	60 €
Legend ink (silkscreen) on each side (not white)	90 €
Peelable mask, per side	90 €
Via-filler (IPC 4761 type IV)	90 €
Carbon printing	120 €
Colour change for soldermask (all colours possible, type: Carapace EMP110)	120 €*
<b>Miscellaneous</b>	
Impedance test	280 €*
Initial sample inspection report	180 €*
<b>Electrical testing</b>	
Electrical testing for 2 layers and IMS	60 €
Electrical testing for 4 or more layers	included
<b>Number of pool panels</b>	
Our offer relates to the size of a pool panel. However, we can also offer two or three pool panels within our PoolPlus range. The extra charge on the total price for one pool panel which we charge for this are as follows:	
For 2 pool panels	30%
For 3 pool panels	50%
<b>Shipping flat rate (delivery only within germany)</b>	
Service: Next Day	12 €
Service: Next Day 9.00 Uhr	110 €

\* The extra charge for multiple pool panels does not apply to these items

## LEGAL INFORMATION

The products from the PoolPlus service are supplied by MOS Electronic GmbH. The offer is only valid after the data have undergone a final review. We reserve the right to refuse unsuitable projects for this offer. Our terms of sale and delivery available at [www.mos-electronic.de](http://www.mos-electronic.de) are applicable. Prices are quoted exclusive of VAT. Terms of payment: (unless otherwise agreed) immediately and without any deduction. Delivery ex-works. If you are interested or have any questions, please contact our Sales, phone +49 (0) 7055-9299-30, [poolplus@mos-electronic.de](mailto:poolplus@mos-electronic.de). Please send purchase orders / data to: [poolplus@mos-electronic.de](mailto:poolplus@mos-electronic.de). We will also be delighted to provide you with a tailored quotation.

Valid until December 31st, 2019