



**Rapid Sample:**

**Technical Specifications Version 01**

BOM - Gerber - CAD - ODB++



**SOLUTIONS FOR YOUR IDEAS**

# Specification BOM

- Manufacturer / manufacturer releases:
  - a) alternative manufacturer specified in the BOM
  - b) manufacturer-free on the basis of technical parameters
- Customer material numbers
- Mounting locations
- Description
- Marking customer provision
- Positions
- Component marking THT / SMD
- Units of measure (pieces, grams,...)

**BOM must be in Excel format (in the first tab)!**  
**See also separate sample BOM as download.**  
**Please note: Smallest mountable design is 01005**



# Specification GERBER

- Gerber files (as ZIP) are sufficient for the request.
- Gerber data of the raw PCB with layer structure!
- However, CAD data are absolutely necessary for production!

Pos. ▾	Layout System ▾	Import Filter ▾	Extension ▾
1	Gerber	Gerber 274x	.gbx

- Other Gerber formats:

Gerber	various	.gbr .ger .pho	Gerber	The preferred "Gerber data" are the extended gerber data. Working with the RS-274-D format can cause more effort and sources of error when insert the D-Codes than working with the RS-274-X format (integrated D-Codes).
--------	---------	----------------------	--------	--



# Specification CAD data

- ODB++ is the preferred CAD data format!
- To note: Binary data is not supported.  
Data in ASCII format can be read.
- The following CAD data formats can be processed by Zollner.

Pos.	Layout System	Import Filter	Extension
1	ODB++	ODB++	.tgz, .tar, .gz, .zip
2	CAMCAD	ccz	.ccz / .cc
3	Gencad	Gencad 1.4	.cad
4	Autodesk	eagle	.brd
5	Fabmaster	Fabmaster	.fab, .fat

- If your preferred CAD file format is not available: contact us and we will find a solution.
- Further data (as PDF):  
Component layout diagram with component polarity - Relevant drawings - Specific data sheets  
Circuit diagram (only required for test option Flying Probe)



- **Contents ODB++ / alternative file formats**
- Installation locations incl. polarity markings
- mount\_type (SMT, THT)
- PCB stackup incl. PCB thickness
- Fiducials
  
- **additionally only if test option 'Flying Probe' is selected**
- Nets
- Wiring Layout
- Test Points

