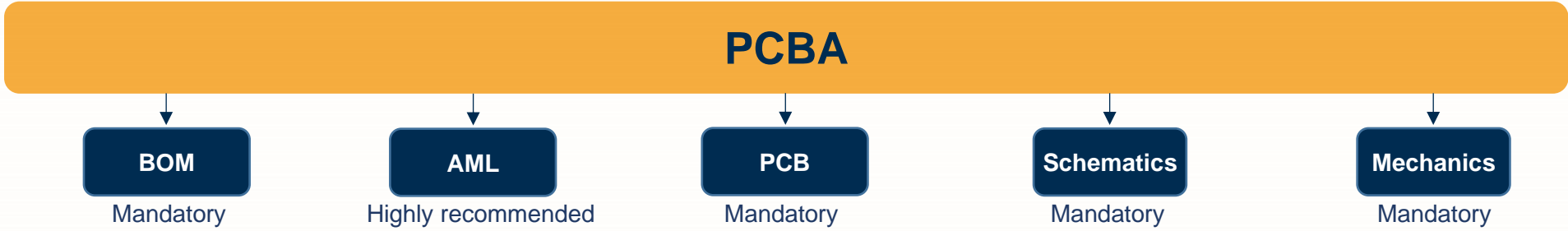




VDL TBP ELECTRONICS

# DATA EXCHANGE



<b>PCBA</b>	<b>Format</b> :	Word, PDF	
	<b>Content</b> :	Applicable standards & approvals	→ Mandatory
		Special requirements	→ Mandatory
		Assembly instructions PCBA	→ Highly recommended
		Test requirements	→ Highly recommended
		Programming file and -instruction	→ Mandatory (if applicable)
			<i>e.g. conformal coating, cleaning, labeling, etc.</i>
			<i>specify <u>what</u> to test, not <u>how</u> to test</i>
<b>BOM</b>	<b>Format</b> :	Excel	
	<b>Content</b> :	Customer Part Number (CPN)	→ Highly recommended
		Reference designators	→ Mandatory
		Description *	→ Mandatory
		Quantity	→ Mandatory
		Manufacturer	→ Mandatory
		Manufacturer part number (MPN)	→ Mandatory
		ATEX certified : yes / no	→ Optional
		UL/CSA certified : yes / no	→ Optional

\*) If there is no information about manufacturer and manufacturer part number the description field must be unambiguous in selecting the correct component e.g. for a resistor we need value, power, package, tolerance and temp coefficient like "SMT RES 4k7 1/8W 0603 1% TC100". For a capacitor we need value, voltage, package, material and tolerance like "SMT CAP 220nF 50V 1206 X7R 10%".



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# DATA EXCHANGE

## AML

- \*\* **Format** : Excel
- Content** : Customer part number (CPN) → Mandatory
- Manufacturer → Mandatory
- Manufacturer part number (MPN) → Mandatory

\*\* AML (Approved Manufacturer List) is a file of all manufacturer part numbers (MPN) that are approved for a specific customer part number (CPN)

## PCB

- Format** : ODB++ (zip, tgz)
- Content** : Copper layers → Mandatory
- Solder mask layers → Mandatory
- Silkscreen layers → Mandatory
- Solder paste layers → Mandatory
- Board outline → Mandatory
- Drill layers → Mandatory
- Info layers → Mandatory
- Netlist → Mandatory
- Assembly drawing → Mandatory

*specify press-fit holes with appropriate tolerances in case of special requirements*

*including component polarities*

- Format** : Excel, PDF, JPEG
- Content** : Layer stackup → Mandatory

- Format** : Excel, Word, PDF
- Content** : PCB specification → Mandatory

*template form available upon request*

## Schematics

- Format** : PDF (searchable)
- Content** : Schematics → Mandatory

## Mechanics

- Format** : STEP file and PDF
- Content** : Mechanical drawings → Both mandatory
- Mandatory

*PDF with applicable tolerances, finish, etc.*