

### Data Formats

- Bill Of Materials (BOM)
  - **Excel**<sup>1</sup>
  - MS-Word
  - CSV
  - Eagle
- Pick And Place List (PnP)
  - **Excel**
  - MS-Word
  - CSV
  - Eagle
- Placement plan
  - **PDF**

### Manufacturing Standard

- IPC-A-610 Class II / Class III

### Material Sourcing

- 100% purchase by PIU-Printex (only project related – no warehouse is featured!)
- 100% supplied goods (strapped) by the customer
- partially provided components (special components) by customers, rest is complemented by PIU purchasing

### Production Panel Sizes

- max. 500 x 355mm
- min. 80 x 50mm production panel (single print can be smaller)

### Soldering

- wave soldering (THT)
- reflow
- vaporphase
- manual soldering

### Spectrum Of Component Size

- max. 120 x 90mm
- min. 01005 (imperial code)
- SMD, BGA, CSP, QFN ( $\leq 0,3$  mm Pich), etc.

### TypesOf Placement

- SMD
- THT
- mixed placement (SMD/THT)
- partial assembly (BGA)
- press-fit
- adhesive technology

### Final Inspection

- manual visually inspection
- AOI

### Production Time

- Standard 10 WD incl. procurement
- PCB production, assembly and final inspection
- technology and quantity will affect the production time

### Extended Offer

- BGA rework
- functional test of the module
- module-assembling
- front cover design
- construction of the housing

**For examples of the data format please turn page** 

<sup>1</sup>highlighted values are preferred options and support rapid transaction

**1.) Bill Of Material (BOM, Excel)**

items	pcs./ PCB	customer serialnumber	reference designator	description	manufacturer partnumber	not assembled	provided by the customer	supplier 1 partnumber	supplier 2 partnumber
1	20	hua10601	C100 C101 C202 C205 C206 C302 C307 C310 C402 C405 C410 C502 C505 C603 C650 C660 C703 C802	cap cer x7r 0805 100nf 10% 100vdc	06033C224KAT2A			2332715RL	
2	4	28060-01101	C102 C301 C401 C501	cap cer c0g 0805 100pf 5% 100vdc	CC0603KRX7R98B103		yes	2070434	
3	3	hua24266	C103 C104 C105	cap cer x7r 1206 4.7uf 10% 25vdc	06033C224KAT2A			1740705	
4	1	hua31055	C106	cap cer x7r 0805 4.7nf 10% 50vdc	CC0603KRX7R98B104	np			499160RL
5	4	sz1cc3035	C107 C112 C601 C602	cv7r 0805 1nf 10% 50V	06033C224KAT2A				317457RL
6	3	sz1cc3074	C200 C203 C600 C801	cv7r 0805 3.3nf 10% 50V	CC0603KRX7R98B105			2332820	
7	4	hua21398	C300 C400 C500 C705	cap cer x7r 0805 1uf 10% 25VDC	06033C224KAT2A			2070446RL	
8	6	sz1cc3032	C303 C403 C503 C700 C701 C702	cap cer x7r 0805 10nf 10% 100Vdc	CC0603KRX7R98B106			1650861	
9	3	hua26077	C304 C404 C504	cap cer x7r 0805 150nf 10% 50Vdc	06033C224KAT2A			1535574RL	
10	1	hua26071	C411	cap cer c0g 0805 4.7nf 5% 50Vdc	CC0603KRX7R98B107			8820058	
11	3	hua16086	C704 C706 C803	cap cer x5r 1206 10uf 10% 25Vdc	06033C224KAT2A			2309034	

**2.) Pick And Place List (PnP, Excel)**

has to contain at least the following information:

Reference	Rotation	Center-X(mil)	Center-Y(mil)	Layer	placed
BAT1	180	2555	745	T	np
C1	0	2590	1139	T	
C2	0	2592	1208	T	
C3	180	2619	805	B	np
C4	90	2309	1001	T	
C5	180	2249	619	B	
C6	270	2489	589	T	
C7	0	2426	592	B	
C8	180	2249	579	T	
C9	90	2349	1001	B	
C10	90	2451	1001	T	
C11	270	2363	589	B	
C12	270	2312	589	T	
C13	90	2225	682	B	

**3.) Placement Plan (PDF)**

serves orientation and control of the components polarization. Please create for each side (top + bottom) a corresponding placement plan.

