Pick & Place File for PCB Assembly

The Pick & Place File / Component Placement List(CPL) is necessary for the proper utilization of pick and place machines. We require Pick & Place data to accurately place the surface mount and through-hole parts on circuit boards. Pick & Place data is the machine file in ASCII text format which comprises reference designator, X/Y locations, rotation, top or bottom side of the board.

The Pick & Place File must contain the information below:

- Designator Component Reference Designator (e.g. C1, L2, R3)
- Mid X/Mid Y The X/Y coordinate of the component centroid. Recommended units: Metric(mm).
- Layer Top / Bottom, the board side where the component should be placed.
- Rotation The rotation of the component given in degrees. Positive values are counter clockwise.

Recommended File Format: .csv, .xls and .xlsx.

Below is a Sample Pick & Place File.

	А	В	С	D	Е
1	Designator	Mid X	Mid Y	Layer	Rotation
2	C1	95.0518mm	22.6822mm	Т	270
3	C2	106.4056mm	23.0124mm	Т	90
4	C3	109.0726mm	22.8854mm	Т	270
5	R2	109.5996mm	16.6443mm	В	0

Download JLC Sample P&P File

(https://s3.amazonaws.com/helpscout.net/docs/assets/59f1de7804286313cffbb22c/attachments/5d83250e04286364bc8f4c5e/Sam ple-CPL_JLCSMT.xlsx).



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