Diablo_Terminator_Board v1 SMT ordering instructions

The following instructions serve as a guide to order assembled Diablo Terminator Boards directly from JLCPCB

Check the JLCPCB website to see if there are any coupons that might relate to your order.

Under the "1 – 4 Layers" category, click the "Quote Now" button.

JLCPCB ordering options that are different from the default options:

- Upload the Gerber file: "Gerber_PCB_RK05-Diablo-Terminator-v1_2025-01-13.zip"
- *PCB Qty*: select the desired quantity
- *Surface Finish*: **LeadFree HASL**
- *Mark on PCB*: **Order Number(Specify Position)**
  (Note that the position of the order number is already specified in the Gerber file. All you need to do is to select this option.)
- *PCB Assembly*: flip the switch to "**on**"
- Click "**NEXT**"
- Observe the image of the PCB, and click "**NEXT**" again
- Click "**Add BOM File**" and upload the file: "BOM_RK05-Diablo-Terminator-v1_2025-01-13.csv"
- Click "**Add CPL File**" and upload the file: "PickAndPlace_PCB_RK05-Diablo-Terminator-v1_2025-01-13.csv"
- Click "**Process BOM & CPL**"
- Confirm that all 5 part types are available. Click "**NEXT**".
  If there is not a sufficient quantity of any of the 5 part types, then either decrease the order quantity or choose a substitute part that is compatible with the part footprint. Refer to the table below for JLCPCB internal part numbers that are suitable substitutes.
- View the parts placement diagram. Click "**NEXT**".
- On the right, choose "Product Description" by clicking the down arrow in the selection box. I choose "**Office Applances & Accessories**" and subcategory "**SSD(Solid State Disk – HS Code 847330**".
- View the Quote & Order summary form. Click "**SAVE TO CART**".
- Proceed through the checkout process. Don't forget to select (check) the items in the cart that you would like to order. Choose the shipping method based on which price and delivery time suits your needs.

Alternate parts:

ID	Name	Designator	Footprint	Qty	LCSC Part	Basic/ Ext	Alternate Parts, LCSC Numbers
1	470nF	C4, C5, C6, C7, C8, C9	C0603	6	C1623	Basic	
2	47uF	C1A	C1210	1	C92824	Ext	C650995 (22µF), C5372271 (22µF)
2A	47uF	C1B, alternate to C1A	C1206	0	C968787	Ext	
3	1nF	C2, C3	C0603	2	C1588	Basic	
4	180Ω	R1, R3, R5, R7, R13, R15, R17, R19, R21, R23, R25, R29, R31, R33, R35, R37, R39, R41, R43, R47, R51, R53, R58, R60, R62, R64, R66, R74, R84, R86, R88, R90, R92, R94, R104, R106, R108, R110	R1206	38	C17924	Ext	C137380, C2929990, C304882, C3017197, C204708
5	383Ω	R2, R4, R6, R8, R14, R16, R18, R20, R22, R24, R26, R30, R32, R34, R38, R40, R42, R44, R48, R52, R54, R57, R59, R61, R63, R65, R67, R68, R73, R83, R85, R87, R89, R91, R93, R103, R105, R107, R109	R0603	39	C23151	Basic	C5126195, C101006, C12976, C321886, C227849, C217993, C367801, C429428, C861360