

BPF Gen v4 - BOM (Farnell Part Nos)

| ID | Name | PCB Designator | Farnell Part No | Added to Fav List | Quantity | Comments - Source Links |
|--------------|-----------------|--|-----------------|-------------------|----------|--|
| 1 | 10R | R18 | 2329856 | Y | 1 | 0.25W |
| 2 | 100R | R13 | 1652641 | Y | 1 | 0.25W |
| 3 | 500R | R15 | 2396013 | Y | 1 | 0.25W |
| 4 | 1k | R12,R16 | 9341102 | Y | 2 | 0.25W |
| 5 | 6k8 | R1,R3 | 9342168 | Y | 2 | 0.25W |
| 6 | 10k | R4,R11,R14,R2 | 9341110 | Y | 4 | 0.25W |
| 7 | 15k | R5 | 9341331 | Y | 1 | 0.25W |
| 8 | 18k | R8,R9 | 1565285 | Y | 2 | 0.25W |
| 9 | 100k | R17 | 2329853 | Y | 1 | 0.25W |
| 10 | 1M | R7,R6 | 9353208 | Y | 2 | Precision trimmer |
| 11 | 4.7M | R10 | 1779367 | Y | 1 | 0.5W |
| 12 | 220n | C1 | 2576668 | Y | 1 | Ceramic |
| 13 | 0.1u | C4,C5,C7 | 1902919 | Y | 3 | Electrolytic |
| 14 | 100u | C2,C3 | 1144620 | Y | 1 | Electrolytic |
| 15 | 1000u | C8,C6 | 2346582 | Y | 2 | Electrolytic |
| 16 | IN4007 | D1 | 2306346 | Y | 1 | |
| 17 | IN5408 | D3,D4,D5 | 2535559 | Y | 3 | |
| 18 | DHG10i1800PA | D2 | 3438328 | Y | 1 | |
| 19 | CD4060BE | U1 | 3119758 | Y | 1 | Decade Counter |
| 20 | IR2121PBF | U2 | 9101705 | Y | 1 | FET/IGBT Driver |
| 21 | 2N2222A | Q1 | (9207120) | Y | 1 | PCB designed for straight inline pins so use: https://www.ebay.co.uk/itm/361963457340? |
| 22 | 2N3904 | Q2 | 1574370 | Y | 1 | https://www.ebay.co.uk/itm/361963457340? |
| 23 | IRF840BPBF | | 2646349 | Y | | No PCB designation given as switchable using the sockets |
| 24 | STP20N95K5 | | 2807287 | Y | | No PCB designation given as switchable using the sockets |
| 25 | STP12N120K5 | | 2807279 | Y | | No PCB designation given as switchable using the sockets |
| 26 | STW12N150K5 | | 3367080 | Y | | No PCB designation given as switchable using the sockets |
| 27 | STW12N170K5 | | 3018753 | Y | | No PCB designation given as switchable using the sockets |
| 28 | TO-220 Socket | H33 | --- | -- | 1 | https://www.ebay.co.uk/itm/121267837242 |
| 29 | TO-247 socket | H25 | --- | -- | 1 | https://www.aliexpress.com/item/1005001884522039.html? ** |
| 30 | HFD2/012-S-L2-D | RLY2,RLY3 | --- | -- | 2 | https://www.ebay.co.uk/itm/125433479079? |
| 31 | Relay 40.61 16A | RLY1 | --- | -- | 1 | https://www.ebay.co.uk/itm/385256460418? |
| 32 | SK-12E12-G5 | SW3,SW4,SW5, SW1,SW2 | 9473416 | Y | 5 | SPDT Switches |
| 33 | LED-TH-G | LED2,LED1 | 1652496 | Y | 2 | 204-10SYGD/S530-E3 |
| 34 | LED-TH-R | LED3, LED5 | 1581122 | Y | 1 | 204-10SDRD/S530-A3-L |
| 35 | LED-TH-B | LED4 | 1581185 | Y | 1 | 204-10SUBC/S400-A4 |
| 36 | HDR-F-2.54_1x3 | H34,H38,H39,H18,H19,H9,H12,H14,H1,H5 | | | 10 | https://www.ebay.co.uk/itm/234615666086? |
| 37 | HDR-F-2.54_1x8 | H31,H35,H36,H37,H7,H8,H6 | | | 7 | https://www.ebay.co.uk/itm/234615666086? |
| 38 | TP1 | H26,H27,H28,H29,H30,H32,H15,H20,H21,H16,H17, H22,H23,H24,H10,H11,H13,H3,H4,H2 | | | 20 | https://www.ebay.co.uk/itm/265539912049? |
| 39 | PCB Feet | --- | --- | -- | 4 | https://www.ebay.co.uk/itm/372965609007? |
| Notes | | ** This socket does not provide a tight fit for the FET/IGBT legs and the socket ideally requires some adjustment. Alternatives that do not require adaptation have not so far been found. One can instead solder a single TO-247 device into the left hand set of holes which are at the standard 5.08mm pitch. | | | | |