

A2 buffer bill of materials

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| Qty | Value | Ref Des | Description | Manufacturer | Manuf PN | Vendor | Vendor PN | Notes |
|-----|------------|----------------|-------------------------------------|------------------|---------------|------------------|-------------------|--|
| 2 | 1N5245 | D3, D6 | 15V 1/2W Zener Diode | Vishay | 1N5245B-TAP | Mouser | 78-1N5245B-TAP | Any manufacturer OK |
| 4 | 1k CC | R1, R4, R5, R6 | 1k 1/4W carbon comp resistor | Kamaya | RC1/4102JB | Mouser | 791-RC1/4-102JB | Any 1/4W carbon comp ~330 - 2k |
| 2 | 22uF 400V | C1, C2 | 22uF 400V 16mm dia electrolytic cap | Nichicon | UPS2G220MHD | Mouser | 647-UPS2G220MHD | Not critical, supply bypass / filter caps |
| 2 | 82 | R2, R3 | 82 ohm 2W resistor | KOA Speer | SPR1CT52R820J | Mouser | 660-SPR1CT52R820J | Current set resistor - see text. 82 ohms = ~30mA |
| 2 | FQPF2N70 | Q1, Q2 | N-channel MOSFET TO-220 700V | Fairchild | FQPF2N70 | Mouser | 512-FQPF2N70 | Others can work |
| 2 | IXCP10M45S | U1, U2 | Current regulator IC | lxys | IXCP10M45S | Mouser | 747-IXCP10M45S | |
| 4 | P6KE300A | D1, D2, D4, D5 | 300V 600W TVS transient supressor | Littlefuse | P6KE300A | Mouser | 576-P6KE300A | Optional but recommended for protection |
| 1 | | | Heatsink Assembly | Landfall Systems | | Landfall Systems | | www.landfallsystems.com |