

Assembly Bill of Materials

Texas Instruments

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|-------------------|---|
| Project Name: | LM74670 Full Bridge Rectifier TI Reference Design |
| Project File: | LM74670_Refitter.PrjPcb |
| Base ID: | TIDA00858 |
| Schematic Rev: | E1 |
| Assembly Variant: | 001 |
| Build Quantity: | 100 |
| Generated: | 11/11/2015 5:59:57 PM |

| Item | Designator | Description | RoHS | Manufacturer | PartNumber | Quantity | Required | Supplier 1 | Supplier Part Number 1 | Supplier 2 | Supplier Part Number 2 | Alternate Manufacturer | Alternate PartNumber |
|------|--------------------------------|--|------|---------------------|--------------------|----------|----------|------------|------------------------|------------|------------------------|------------------------|----------------------|
| 1 | 1, 2, 3, 4 | Heatsink, Vertical-mount TO-220 | Y | Fisher elektronik | SK104-xx | 4 | 400 | | | | | | |
| 2 | AC+, LOAD+ | Standard Banana Jack, Insulated, Red | Y | Keystone | 6091 | 2 | 200 | Digi-Key | 6091K-ND | | | | |
| 3 | AC-, LOAD- | Standard Banana Jack, Insulated, Black | Y | Keystone | 6092 | 2 | 200 | Digi-Key | 6092K-ND | | | | |
| 4 | C1, C2, C4, C5 | CAP, CERM, 4.7 µF, 50 V, +/- 10%, X7R, 1210 | Y | MuRata | GRM32ER71H475KA88L | 4 | 400 | Digi-Key | 490-1864-1-ND | Mouser | 81-GRM32R71H475KA88L | | |
| 5 | DRV1, DRV2, DRV3, DRV4 | Test Point, Multipurpose, Yellow, TH | Y | Keystone | 5014 | 4 | 400 | Digi-Key | 5014K-ND | | | | |
| 6 | H1, H2, H3, H4 | Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead | Y | B&F Fastener Supply | NY PMS 440 0025 PH | 4 | 400 | Digi-Key | H542-ND | | | - | - |
| 7 | H5, H6, H7, H8 | Standoff, Hex, 0.5"L #4-40 Nylon | Y | Keystone | 1902C | 4 | 400 | Digi-Key | 1902CK-ND | | | - | - |
| 8 | Q1, Q2, Q3, Q4 | MOSFET, N-CH, 60 V, 100 A, KCS0003A | Y | Texas Instruments | CSD18532KCS | 4 | 400 | Digi-Key | 296-34941-5-ND | Mouser | 595-CSD18532KCS | None | |
| 9 | TP2, TP4 | Test Point, Multipurpose, Black, TH | Y | Keystone | 5011 | 2 | 200 | Digi-Key | 5011K-ND | | | | |
| 10 | TP5, TP6 | Test Point, Multipurpose, Red, TH | Y | Keystone | 5010 | 2 | 200 | Digi-Key | 5010K-ND | | | | |
| 11 | U1, U2, U3, U4 | Reverse Polarity Protection Smart Diode Rectifier Controller, DGK0008A | Y | Texas Instruments | LM74670QDGKRQ1 | 4 | 400 | | | | | Texas Instruments | LM74670QDGKTQ1 |
| 12 | VCAP_1, VCAP_2, VCAP_3, VCAP_4 | CAP, CERM, 0.47 µF, 25 V, +/- 10%, X5R, 0805 | Y | AVX | 08053D474KAT2A | 4 | 400 | Digi-Key | 478-1407-1-ND | Mouser | 581-08053D474K | | |
| 13 | C6 | CAP, AL, 1000 µF, 50 V, +/- 20%, 0.073 ohm, SMD | Y | Panasonic | EEV-FK1H102M | 0 | 0 | Digi-Key | PCE3477CT-ND | Mouser | 667-EEV-FK1H102M | | |

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