

PMP8001

PMP8001 Bill of Materials



SNOR002

| REF Des | Description | Manufacturer | PartNumber | QTY |
|-----------|---|--------------------|--------------------|-----|
| U1 | Triac Dimmable Offline LED Driver, PowerWise, 16-pin MSOP | Texas Instruments | LM3448MM | 1 |
| C1 | CAP, Film, 0.01uF, 630V, +/-10%, TH | EPCOS Inc | B32921C3103K | 1 |
| C2 | CAP, CERM, 0.01uF, 100V, +/-10%, X7R, 0603 | AVX | 06031C103KAT2A | 1 |
| C3 | N/A | N/A | N/A | 0 |
| C4 | CAP, CERM, 0.01uF, 350V, +/-10%, X7T, 0805 | TDK | C2012X7T2V103K | 1 |
| C5 | CAP, CERM, 220pF, 50V, +/-5%, C0G/NP0, 0603 | MuRata | GRM1885C1H221JA01D | 1 |
| C6 | CAP, CERM, 0.1uF, 250V, +/-10%, X7R, 1206 | MuRata | GRM31CR72E104KW03L | 1 |
| C7 | CAP, CERM, 270pF, 50V, +/-5%, C0G/NP0, 0603 | MuRata | GRM1885C1H271JA01D | 1 |
| C8 | CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603 | MuRata | GRM188R71H104KA93D | 1 |
| C9 | CAP, TANT, 5.6uF, 25V, +/-20%, 0.1 ohm, SMD | SANYO | 25TQC5R6M | 1 |
| C10 | CAP, Film, 0.033uF, 400V, +/-10%, TH | Panasonic | ECQE4333KF | 1 |
| C11 | CAP, CERM, 4.7uF, 25V, +/-10%, X5R, 0805 | MuRata | GRM21BR61E475KA12L | 1 |
| C12 | CAP, CERM, 1uF, 35V, +/-10%, X7R, 0805 | Taiyo Yuden | GMK212B7105KG-T | 1 |
| C13 | CAP, AL, 1uF, 400V, +/-20%, 6.3x11mm, TH | Panasonic | ECA2GHG010() | 1 |
| C14 | CAP, CERM, 330pF, 630V, +/-5%, U2J, 1206 | MuRata | GRM31A7U2J331JW31D | 1 |
| C15, C15a | CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0603 | MuRata | GRM188R71H223KA01D | 2 |
| C16 | CAP, CERM, 1000pF, 250VAC, X1Y1, TH | TDK | CD85-E2GA102MYNS | 1 |
| C17 | CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0805 | MuRata | GRM21BR71H104KA01L | 1 |
| C18 | CAP, CERM, 1uF, 50V, +/-10%, X7R, 1210 | MuRata | GRM32RR71H105KA01L | 1 |
| C19 | CAP, AL, 680uF, 35V, +/-20%, 10x20mm, TH | Nichicon | UVZ1V681MPD | 1 |
| C20 | CAP, CERM, 1000pF, 630V, +/-5%, C0G/NP0, 1206 | MuRata | GRM31B5C2J102JW01L | 1 |
| D1 | Diode, Switching-Bridge, 600V, 0.8A, MiniDIP | Diodes Inc. | HD06-T | 1 |
| D2, D6 | Diode, Zener, 13V, 200mW, SOD-323 | Diodes Inc. | DDZ13BS-7 | 2 |
| D3, D4 | Diode, Schottky, 100V, 0.15A, SOD-323 | ST | BAT46JFLIM | 2 |
| D5, D10 | Diode, P-N, 1000V, 1A, SOD-123 | Comchip Technology | CGRM4007-G | 2 |
| D7 | Diode, Ultrafast, 100V, 0.15A, SOD-123 | Diodes Inc. | 1N4148W-7-F | 1 |
| D8 | Diode, 180V, 0.6A, SOD-323 | Central | CMDD3003 | 1 |
| D9 | Diode, TVS, 250V, 600W, SMB | Littelfuse | P6SMB250A | 1 |
| D11 | Diode, UF, 200V, 1A, SMA | Diodes | ES1D | 1 |
| D12 | Diode, Zener, 36V, 550mW, SMB | ON Semiconductor | 1SMB5938BT3G | 1 |

| REF Des | Description | Manufacturer | PartNumber | QTY |
|------------|---|------------------|---------------------------------|-----|
| F1 | Fuse - 677 Series, Slo-Blo, 0.5A, 250V, VDE, UL, CSA, CCC | Littelfuse | 677.5 | 1 |
| L1, L2, L3 | Inductor, Drum Ferrite 3mH 0.13A, ?ohm, TH | DXW | ? | 3 |
| Q2 | MOSFET N-CH, 0.8A, 650V, 6ohm, 8.5nC | Infineon | SPU01N60C3 | 1 |
| Q3 | PNP General Purpose Amplifier | Fairchild | BC807-25 | 1 |
| Q4 | NPN High-voltage Transistor | Philips | MMBTA42 | 1 |
| Q5 | PNP General-purpose Double Transistor | Infineon | BCV62C | 1 |
| Q6 | MOSFET, N-CH, 60V, 0.26A, SOT-23 | ON Semiconductor | 2N7002ET1G | 1 |
| R1, R2 | RES Metal Film, 100 ohm, 5%, 1W, TH | Panasonic | ERG-1SJ560 | 2 |
| R3, R4 | RES, 2.21k ohm, 1%, 0.25W, 1206 | Vishay-Dale | CRCW12062K21FKEA | 2 |
| R5 | RES, 820k ohm, 1%, 0.25W, 1206 | Yageo America | RC1206FR-07820KL | 1 |
| R6 | RES, 3.57k ohm, 1%, 0.1W, 0603 | Vishay-Dale | CRCW06033K57FKEA | 1 |
| R7, R8 | RES, 453k ohm, 1%, 0.125W, 0805 | Vishay-Dale | CRCW0805453KFKEA | 2 |
| R9 | RES, 845k ohm, 1%, 0.25W, 1206 | Yageo America | RC1206FR-07845KL | 1 |
| R10 | RES, 280k ohm, 1%, 0.1W, 0603 | Vishay-Dale | CRCW0603280KFKEA | 1 |
| R12, R13 | RES, 243k ohm, 1%, 0.25W, 1206 | Vishay-Dale | CRCW1206243KFKEA | 2 |
| R14 | RES, 31.6 ohm, 1%, 0.125W, 0805 | Vishay-Dale | CRCW080531R6FKEA | 1 |
| R15 | RES, 33 ohm, 5%, 0.25W, 1206 | Vishay-Dale | CRCW120633R0JNEA | 1 |
| R16 | RES, 150k ohm, 1%, 0.1W, 0603 | Yageo America | RC0603FR-07150KL | 1 |
| R17 | RES, 22.1k ohm, 1%, 0.1W, 0603 | Vishay-Dale | CRCW060322K1FKEA | 1 |
| R18 | RES, 11.3k ohm, 1%, 0.1W, 0603 | Vishay-Dale | CRCW060311K3FKEA | 1 |
| R19 | RES, 10k ohm, 5%, 0.1W, 0603 | Vishay-Dale | CRCW060310K0JNEA | 1 |
| R20 | RES, 115k ohm, 1%, 0.1W, 0603 | Vishay-Dale | CRCW0603115KFKEA | 1 |
| R21 | RES, 137k ohm, 1%, 0.125W, 0805 | Vishay-Dale | CRCW0805137KFKEA | 1 |
| R22 | RES, 232k ohm, 1%, 0.125W, 0805 | Vishay-Dale | CRCW0805232KFKEA | 1 |
| R23 | RES, 130k ohm, 1%, 0.125W, 0805 | Vishay-Dale | CRCW0805130KFKEA | 1 |
| R24 | RES, 9.76k ohm, 1%, 0.1W, 0603 | Vishay-Dale | CRCW06039K76FKEA | 1 |
| R25 | RES, 220 ohm, 5%, 0.25W, 1206 | Vishay-Dale | CRCW1206220RJNEA | 1 |
| R26 | RES, 4.7 ohm, 5%, 0.1W, 0603 | Vishay-Dale | CRCW06034R70JNEA | 1 |
| R27 | RES, 1.15 ohm, 1%, 0.125W, 0805 | Vishay-Dale | CRCW08051R15FKEA | 1 |
| *R28 | RES, 6.19 ohm, 1%, 0.25W, 1206 | Vishay-Dale | CRCW12066R19FKEA | 1 |
| R29 | RES, 10 ohm, 5%, 0.125W, 0805 | Vishay-Dale | CRCW080510R0JNEA | 1 |
| T1 | Transformer EE-16 | Sumida Midocm | EEH1713 10376-T057 750341146 | 1 |
| PCB | PCB 54mm x 27mm, t=1mm, 2 layer, FR4, 1 oz. copper | fm-true | | 1 |
| VDR1 | Varistor 275V | EPCOS | S07K275 | 1 |

* trimming resistor for LED current.

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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