

LED-SMART-DIM-LLC-150WGEVB_BOM List



| Designator | Quantity | Description | Value | Tolerance | Footprint | Manufacturer | Manufacturer Part Number | LC PN. | Substitution Allowed |
|---|----------|---------------------------|----------------------------|-----------|----------------------------------|---------------|--------------------------|----------|----------------------|
| NTC1 | 1 | NTC | 2.5ohm | 1% | 7mm | TKS | SCK102R55AMS | C211174 | NO |
| F1 | 1 | FUSE | Micro Fuse 3.15A/250VAC | NC | Axial Lead | LANSON(良胜) | SMT1315A | C182453 | NO |
| L1 | 1 | Filter | 90uH/4A | 20% | 10mm*20mm | WE | 7447013 | No | NO |
| L4 | 1 | PFC choke | 250uH | 10% | PQ2616 | TDG | 750345488 | No | NO |
| L2 | 1 | filter | 2*220uH/3A | 20% | | WE | 750344558 | No | NO |
| L3 | 1 | filter | 10mH/4A | 20% | 10*13 | SANCI | SQ1515/10mH | No | NO |
| L5 | 1 | Resonant choke | 100uH | 7% | RM8 | WE | 750345488 | No | NO |
| T1 | 1 | LLC Transformer | 550uH | 7% | PQ2616 | TDG | 550uH | No | NO |
| CX1,CX2 | 2 | Film Capacitor,X2, Radial | 474/275Vac | 10% | L*W:18*6cm,Pin distance 1.5cm | WE | 890334025039CS | Yes | NO |
| R13 | 1 | Resistor | 0.2R/2512 | 1% | 2512 | FOJAN(富捷) | FRL2512FR180TS | C2934365 | Yes |
| R8,R9,R20,R22,R26,R27,R29, R32,R35,R36,R39,R47,R55 | 13 | Resistor | 10/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF100JT5E | C22859 | Yes |
| R45 | 1 | Resistor | 0/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF1002T5E | C25804 | Yes |
| R31 | 1 | Resistor | 100/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF1000T5E | C22775 | Yes |
| R41 | 1 | Resistor | 100K/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF1003T5E | C25803 | Yes |
| R52 | 1 | Resistor | 2.2K/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF2201T5E | C4190 | Yes |
| R25,R42,R53 | 4 | Resistor | 10K/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF1002T5E | C25804 | Yes |
| R59,R60 | 2 | Resistor | 62mR/2512 | 1% | 2512 | UNI-ROYAL(厚声) | 25121WF620MT4E | C44881 | Yes |
| R14 | 1 | Resistor | 13K/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF1302T5E | C22797 | Yes |
| R10 | 1 | Resistor | 150R/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF1500T5E | C22808 | Yes |
| R3 | 1 | Resistor | 15K/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF1502T5E | C22809 | Yes |
| R17 | 1 | Resistor | 56K/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF5602T5E | C23206 | Yes |
| R37,R38 | 2 | Resistor | 15R/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF150JT5E | C22810 | Yes |
| R21 | 1 | Resistor | 160K/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF1603T5E | C22813 | Yes |
| R28,R54,R104 | 2 | Resistor | 1K/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF1001T5E | C21190 | Yes |
| R43 | 1 | Resistor | 0R/2512 | 1% | 2512 | UNI-ROYAL(厚声) | 25121WJ0000T4E | C25469 | Yes |
| R44 | 1 | Resistor | 100K/1206 | 1% | 1206 | UNI-ROYAL(厚声) | 1206W4F1003T5E | C17900 | Yes |
| R1,R11 | 2 | Resistor | 1M5/0805 | 1% | 0805 | UNI-ROYAL(厚声) | 0805W8F1504T5E | C26110 | Yes |
| R56 | 1 | Resistor | 2.2K/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF2201T5E | C4190 | Yes |
| R2,R5,R12,R19,R24,R33,R34, R40,R46,R48 | 10 | Resistor | 20K/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF2002T5E | C4184 | Yes |
| R57 | 1 | Resistor | 56K/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF5602T5E | C23206 | Yes |
| R30 | 1 | Resistor | 2K4/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF2401T5E | C22940 | Yes |
| R15,R16 | 2 | Resistor | 2K7/0805 | 1% | 0805 | UNI-ROYAL(厚声) | 0805W8F2701T5E | C17530 | Yes |
| R6 | 1 | Resistor | 2M2/0805 | 1% | 0805 | UNI-ROYAL(厚声) | 0805W8F2204T5E | C26113 | Yes |
| R7 | 1 | Resistor | 2M4/0805 | 1% | 0805 | UNI-ROYAL(厚声) | 0805W8F2404T5E | C17527 | Yes |
| R123 | 1 | Resistor | 30K/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF3002T5E | C22984 | Yes |

| | | | | | | | | | |
|----------------------|---|---------------------------------|------------------------|-----|---------------|---------------|---------------------|----------|-----|
| R18,R23 | 2 | Resistor | 10/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF100JT5E | C22859 | Yes |
| R4 | 1 | Resistor | 56K/0603 | 1% | 0603 | UNI-ROYAL(厚声) | 0603WAF5602T5E | C23206 | Yes |
| C15 | 1 | Ceramic Capacitor,NPO,SMD | 100pF ±5% 1kV | 5% | 1206 | YAGEO(国巨) | CC1206JKNPOCBN101 | C107173 | Yes |
| C11,C12,C24,C27 | 4 | Ceramic Capacitor,NPO,SMD | 100pF ±5% 50V | 5% | 603 | YAGEO(国巨) | CC0603JRNPO9BN101 | C14665 | Yes |
| C3,C9,C10,C13,C21 | 5 | Ceramic Capacitor,NPO,SMD | 1nF ±10% 50V | 10% | 0603 | YAGEO(国巨) | CC0603KRX7R9BB102 | C100040 | Yes |
| C17,C19,C47 | 2 | Ceramic Capacitor,NPO,SMD | 1nF ±10% 50V | 10% | 0603 | YAGEO(国巨) | CC0603KRX7R9BB102 | C100040 | Yes |
| C14 | 1 | Ceramic Capacitor,NPO,SMD | 100nF ±10% 50V | 10% | 0603 | YAGEO(国巨) | CC0603KRX7R9BB104 | C14663 | Yes |
| C5 | 1 | Ceramic Capacitor,NPO,SMD | 1uF ±10% 25V | 10% | 0805 | YAGEO(国巨) | CC0603KRX5R8BB105 | C215803 | Yes |
| C18,C23,C26 | 3 | Ceramic Capacitor,NPO,SMD | 1uF ±10% 25V | 10% | 0603 | YAGEO(国巨) | CC0603KRX5R8BB105 | C14664 | Yes |
| C16 | 1 | Ceramic Capacitor,NPO,SMD | 10nF ±10% 50V | 10% | 0603 | YAGEO(国巨) | C0603KRX7R9BB103 | C100042 | Yes |
| C4 | 1 | Ceramic Capacitor,NPO,SMD | 220nF ±10% 50V | 10% | 0603 | YAGEO(国巨) | C0603KRX7R9BB224 | C107083 | Yes |
| C7 | 5 | Ceramic Capacitor,NPO,SMD | 2.2uF ±10% 25V | 10% | 0603 | FH(风华) | 0603B225K250NT | C99228 | Yes |
| C8 | 1 | Ceramic Capacitor,NPO,SMD | 22pF ±5% 50V | 10% | 0603 | YAGEO(国巨) | C0603JRNPO9BN220 | C105620 | Yes |
| C28 | 1 | Ceramic Capacitor,NPO,SMD | 4.7uF 50V | 10% | 0805 | FH(风华) | 0805B475K500NT | C2991173 | Yes |
| C42 | 1 | Ceramic Capacitor,NPO,SMD | 22nF ±10% 50V | 10% | 0603 | YAGEO(国巨) | CC0603KRX7R9BB104 | C14663 | Yes |
| C6,C25 | 2 | Ceramic Capacitor,NPO,SMD | 1uF ±10% 25V | 10% | 0603 | FH(风华) | 0603B105K250NT | C59302 | Yes |
| C20 | 2 | Ceramic Capacitor,NPO,SMD | 22nF ±10% 50V | 10% | 0603 | FH(风华) | 0603B223K500NT | C77571 | NO |
| EC1,EC2 | 2 | Aluminum Electrolytic Capacitor | 56uF ±20% 450V | 20% | E-cap | Ymin(永铭) | LKM12502W560MF | C443362 | NO |
| C1,C22 | 2 | X-CAP | 474/450V | 10% | X-CAP | WE | 890334025039CS | Yes | NO |
| EC3 | 1 | Aluminum Electrolytic Capacitor | 68u/50V | 20% | E-cap | WE | 860010573006 | No | NO |
| EC5 | 1 | Aluminum Electrolytic Capacitor | 100u/35V | 20% | E-cap | WE | 860010573007 | No | NO |
| EC4,EC6 | 2 | Aluminum Electrolytic Capacitor | 62V/470uF | 20% | E-cap | WE | 860010778020 | No | NO |
| D3,D5 | 2 | Diode bridge | DF10S2 | NC | DFN26 | ON | DF10S2 | No | NO |
| CR2 | 1 | Film Capacitor | 22nF ±5% 630V | 5% | 1210 | TDK | C3225C0G2J223JT000N | C338114 | NO |
| D4,D7,D10,D16,D19 | 4 | Diode | 电压:100V 电流:150mA T4 | NC | SOD323 | CJ(江苏长电/长晶) | 1N4148WS | C2128 | NO |
| D2,D12,D13 | 3 | Diode | ES1J | NC | SMA | ON | ES1J | C232830 | NO |
| D14 | 1 | Diode | ES1JF | NC | SOD-123FL | ON | ES1JF | C719809 | NO |
| D6,D8,D9,D15,D18,D21 | 6 | Diode | 1N4148 | NC | SOD123 | ON | 1N4148W | C2099 | NO |
| D1 | 1 | SiC Diode | STPSC4H065B-TR | NC | TO252 | ST | STPSC4H065B-TR | C191032 | NO |
| D17,D20 | 2 | Diode | BZT52C15 | NC | SOD-123 | CJ(江苏长电/长晶) | BZT52C15 | C2104 | NO |
| Q1,Q2 | 2 | N-MOSFET | FDMS8D8N15C | NC | DFN5*6 | ON | FDMS8D8N15C | No | NO |
| Q3,Q8 | 2 | BJT | BSS138 | NC | SOT23 | J(江苏长电/长晶) | BSS138 | C78284 | NO |
| Q5,Q6,Q7 | 3 | N-MOSFET | FCD260N65 | NC | TO252 | ON | FCD260N65 | No | NO |
| U11 | 1 | Feedback loop controller | NCL38046 | NC | SOIC-8 | ON | NCL38046AP | No | NO |
| U1 | 1 | PFC controller | NCL2801 | NC | SOIC-8 | ON | NCL2801CDA | No | NO |
| U3 | 1 | LLC controller | NCL30159 | NC | SOIC-16 | ON | NCL30159AP | No | NO |
| U6 | 1 | SR Controller | NCP4318 | NC | SOIC-8 | ON | NCP4318ALC | No | NO |
| CY1 | 1 | Y CAP | Y1/2.2nF | NC | SMD0806P=10mm | WMEC(万明) | CKF222M2GA80AARC | C7430023 | NO |
| OP1 | 1 | Optical coupler | FODM1007 | NC | LSOP4 | ON | FODM1007 | No | NO |