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REPORT

on

Drivers for Light-emitting-diode Arrays, Modules and Controllers

***SOLUM CO LTD**
***REPUBLIC OF KOREA**

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DESCRIPTION

PRODUCT COVERED:

USR, CNR- Component LED Driver, see electrical ratings table for models.

USR - United States Recognized Component
CNR - Canada Recognized Component

ELECTRICAL RATINGS:

| Model No. | Input | | | Output | | |
|--------------|---------------|----------------|-------------------------|---------------|----------------|-------------|
| | Voltage (Vac) | Frequency (Hz) | Current (A), Power (W) | Voltage (Vdc) | Frequency (Hz) | Current (A) |
| PSDV121101A | 120-277 | 50/60 | 2.0 A, 150 W | 60-80 | N/A | 1.5 |
| *PSDV850101A | 120-277 | 50/60 | 1.2 A , 120 W | 60-80 | N/A | 1.05 |

TECHNICAL CONSIDERATIONS (NOT FOR UL FIELD REPRESENTATIVE USE):

USR - Indicates investigation to the U.S. Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products, UL 8750, First Edition.

*CNR - Indicates investigation to the Canadian Standard for Light Emitting Diode (LED) Equipment for Lighting Applications, CSA C22.2 No. 250.13, **Second** Edition.

DIFFERENCES BETWEEN MODELS:

Model PSDV121101A is a basic model. Model PSDV850101A is identical to Model PSDV121101A except for model designation, PFC (LP01), Transformer (TM101), PWB pattern and some components in primary and secondary circuit. Additionally model PSDV850101A is not potted but model PSDV121101A is fully potted.

Conditions of Acceptability:

Use - For use only in (or with) complete equipment where the acceptability of the combination is determined by UL LLC.

1. These products been evaluated for the following characteristics.

| Model No. [x] applies to all models | | | Product is rated | Type HL (a) | Type TL (b) |
|---|--|---|---------------------|-------------|-------------|
| PSDV121101A, PSDV850101A | Input type- [X] Branch Circuit (Mains) | Output type- [X] CC Output is [X] Isolated | [X] Damp | [X] No | [X] No |

a- Evaluated per UL 8750 requirements for Type HL LED drivers

b- Evaluated per UL 8750 requirements for Type TL LED drivers

2. Rated output loading for these products was achieved using resistive loads and LED loads. The need for other consideration should be considered in end-use product.
3. As part of temperature testing, the case temperature at Tc (Case surface above TM101) was monitored. During the normal temperature test of the end product, the temperature at Tc is to be monitored. The absolute value at Tc cannot exceed 85 °C designated by manufacturer (calculated value by test: 95.2 °C for model PSDV121101A, 91.7 °C for model PSDV850101A, this value was calculated based on temperatures observed during testing and temperature ratings of the integral components including the electrical insulation system).
4. These products utilize a UL Recognized OBJY2 Class 130 (B) electrical insulation system.
5. These products are intended for building in. Acceptability of the LED driver- with respect to mounting, spacing, casualty, temperature and segregation- is to be determined as part of the end device evaluation.
6. These products are provided with minimum 18 AWG, stranded leads, rated 105 °C, 300 V minimum for input connections and minimum 24 AWG, stranded leads, rated 105 °C, 300 V minimum for output connections. The suitability of the use shall be determined in the end-product application.
7. The LED driver is provided with an internal green grounding lead that is between the internal board bonded directly and rear metal case mechanically secured by a screw. The need for bonding the dead metal enclosure shall be considered in the end product.
8. These products are dimmable using a low voltage 0-10 V interface. This interface is a sink, since the interface circuit operates from an external source of supply.

Conditions of Acceptability (CONT'D):

- *9. The product has been judged on the basis of the required spacings as indicated in the standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products, UL 8750 in addition to the standard for Insulation Coordination Including Clearances and Creepage Distances for Electrical Equipment, UL 840, and Light Emitting Diode (LED) Equipment for Lighting Applications, CSA C22.2 No. 250.13.
10. The unit employs input surge suppression protection suitable for use in Type 3 SPD application. The suitability of the use shall be determined in the end-product application.
11. The product was tested while connected to a 20 A branch circuit. If used on a branch circuit greater than 20 A, additional testing may be necessary and shall be considered in the end product.
12. The input and output connections have been invested for factory wiring only, connection to supply mains shall be determined in the end product. If the product shall be intended to use in field wiring, the suitability shall be determined in each end-use application.
13. For model PSDV850101A, the Strain Relief test was not conducted in this evaluation. The need for additional testing may be considered in the end product.
14. Outer Case has not been invested for final enclosure, the suitable enclosure shall be provided in the end-use product.
15. Output wires shall be completely enclosed in the end product. It shall be considered in the end product.
16. These products are marked suitable for dry and damp locations. Additional considerations will be necessary as these LED drivers are integrated into wet rated end devices (i.e. input and output supply connection means, accessibility of the output based on maximum voltage restrictions for wet rated Class 2 circuits, acceptability of markings, etc.).

CONSTRUCTION DETAILS:

Corrosion Protection - Ferrous metal parts are protected against corrosion by plating or painting.

Soldered Connections - All soldered connections are mechanically secured before soldering.

Printed Wiring Boards - R/C (ZPMV2), rated V-0, suitable for the solder time and temperature used by the manufacturer and having an operating temperature rating of at least 130 °C, and complied with the requirement for direct support of current carrying parts.

"CN" indicates the component has been evaluated to Canadian requirements and the component shall have a Canadian UL certification Mark (C-UL) or UL certification Mark and CSA certification Mark when the Applicant's basic product bearing C-UL certification Mark.

Product markings-

1. Recognized company name, File number or trademark (If authorized).
2. Model designation.
3. Factory ID or code, when more than one factory.
- *4. Date Code: see below table,

| Mean Digit | Plant | Year | Month | Date | Model Code | Serial No |
|------------|----------|-------|---------------|------------|------------|-----------|
| Example | C1 or C2 | 00~99 | 1..9, A, B, C | 01,02,..31 | 1~9,A~Z: | 0001~9999 |

5. Optional - Electrical Ratings, see electrical ratings table.
6. Optional - Environmental considerations: see product characteristics table.
7. Optional - Polarity of the Input and Output Connections.
8. Optional - Temperature Measurement Point (Tc).

Model PSDV121101A - FIGS. 1 THRU 5

General - The general design, shape and arrangement shall be as illustrated except where variations are specifically described.

| No. | Item | CCN | Manufacturer (File Number) | Part/Model Number | Description / Technical Data | (F)IG (I)LL |
|-----|---|--------------|---|-----------------------------|--|----------------|
| 1 | Case Body | - | - | - | Aluminum alloy sheet metal, min. 1.5 mm thick, overall measured 207.0 mm by 60.0 mm by 32.0 mm (L x W x H). | F1,F2 ,I1 |
| 2 | Side Cover (Input) | - | - | - | Aluminum alloy sheet metal, min. 1.5 mm thick overall measured 60.0 mm by 32.0 mm by 16.0 mm (L x W x H), mechanically secured to Case Body by screws. | F1,I2 |
| 3 | Side Cover (Output) | - | - | - | Same as above. | F2,I3 |
| 3 | Input Lead Wire | AVLV2, CN | Various | Various | Min. 18 AWG, rated min. 300 V, 105 °C. | |
| 4 | Input Cord | ZJCZ, CN | Various | Various | Min. 18 AWG, rated min. 300 V, 105 °C. | |
| 5 | Output Lead Wire (LED) | AVLV2, CN | Various | Various | Min. 20 AWG, rated min. 300 V, 105 °C. | |
| 6 | Output Lead Wire (Dimming) | AVLV2, CN | Various | Various | Min. 24 AWG, rated min. 300 V, 105 °C. | |
| 7 | Output/Dimming Cord | ZJCZ, CN | Various | Various | Min. 18 AWG, rated min. 300 V, 105 °C. | |
| 8 | Connector (Output Lead wire for dimming, CN301) | ECBT2, CN | JOWLE TECHNOLOGY CO LTD (E144544) | B2513 | Wire to board connector, rated Min. 95 °C | |
| 9 | Grounding wire | AVLV2, CN | Various | Various | Min. 18 AWG, rated min. 300 V, 105 °C. Green or with yellow strip, between the internal board bonded directly and rear metal case mechanically secured by a screw. | |
| 10 | Input/Output/D imming Grommet | QMFZ2, CN | Various | Various | Rated min. 150 °C, 2.0 mm thickness. | |
| 11 | Insulation sheet | QMFZ2 | TORAY INDUSTRIES INC (E86511) | Lumirror (#) | Polyethylene Terephthalate (PET), Rated 105 °C, VTM-2, double layers, minimum 0.18 mm total thickness, fully wrap internal LED Driver against Case, see ILL 4 for detailed dimension and shape. | F3,I4 |
| | Alternate | QMFZ2 | SKC CO LTD (E74359) | SH71S, SG00L, SR50, SR53 | Same as above. | |
| *12 | Potting Compound | QMFZ2 | DOW CORNING CO RP (E40195) | 170# | Silicone (RTV), General thermal index 105 °C, furnished as two liquid components. Completely surrounds circuit board in Case. | |

Model PSDV121101A - FIGS. 1 THRU 5 (CONT'D)

| No. | Item | CCN | Manufacturer (File Number) | Part/Model Number | Description / Technical Data | (F)IG (I)LL |
|-----|--|-----------------------------|--|----------------------|---|----------------|
| *13 | Printed Wiring Board | ZPMV2, CN | Various | Various | Rated minimum 130 °C, V-1. Measured approx. 200.0 mm by 53.5 mm (L x W), 1.6 mm thick. Suitable for support of live parts. | F4,F5 ,I5 |
| 14 | Fuse (FS101) | JDYX2, CN | LITTELFUSE WICKMANN WERKE (E67006) | 369 + | Rated 5.0 A, 300 Vac, connected in series with ungrounded supply. | |
| | Alternate | JDYX2, CN | CONQUER ELECTRONICS CO LTD (E82636) | MST | Same as above. | |
| 15 | Varistor (VX101S) | VZCA2, CN | AMOTECH CO LTD (E332687) | INR14D751 | SPD Type 4 for use in Type 3 applications, minimum voltage rating 460 Vac. | |
| | Alternate | VZCA2, CN | THINKING ELECTRONIC INDUSTRIAL CO LTD (E314979) | TVR14751 | SPD Type 4 for use in Type 3 applications, minimum voltage rating 465 Vac. | |
| 16 | Thermistor (NT101S) | XGPU2, CN | Various | Various | Rated 3 ohm at 25 °C. | |
| 17 | Capacitors (CX101S, CX102S) | FOKY2 or FOWX2, CN | Various | Various | Located across the line, rated min. 305 Vac, min. 110 °C, 220 nF max. | |
| *18 | Capacitor (CP171) | - | Various | Various | Rated min. 500 Vdc , min. 110 °C, 1000 nF max, located on primary circuit. | |
| *19 | Capacitor (CM104) | - | Various | Various | Rated min. 2000 Vdc , min. 110 °C, 4.7 nF max, located on primary circuit. | |
| 20 | Bridge Diode (BD101) | - | Various | Various | Rated 600 V min., 25 A max. | |
| 21 | Electrolytic Capacitor (CP151) | - | Various | Various | Rated min. 500 V, 100 uF, 105 °C. | |
| 22 | FET (QP101) | - | Various | Various | Rated 600 V min., 11 A max, located on primary circuit. | |
| 23 | Rectifier Diode (DP172) | - | Various | Various | Rated 600 V min., 10 A max, located on primary circuit. | |
| 24 | FETs (QM102, QM103) | - | Various | Various | Rated 600 V min., 13 A Max, located on primary circuit. | |
| 25 | Transistor (QM201) | - | Various | Various | Rated 25 W min., located on secondary circuit. | |
| *26 | Diodes (DM261, DM262) | - | Various | Various | Rated 350 V min., 20 A Max, located on secondary circuit. | |
| *27 | Electrolytic Capacitors (CM252, CM253) | - | Various | Various | Rated 100 uF, min. 100 V, min. 105 °C, located on secondary circuit. | |

Model PSDV121101A - FIGS. 1 THRU 5 (CONT'D)

| No. | Item | CCN | Manufacturer (File Number) | Part/Model Number | Description / Technical Data | (F)IG (I)LL |
|-----|--|--------------|-------------------------------|----------------------|--|----------------|
| 28 | Capacitor (CY106S) | FOWX2, CN | Various | Various | Bridging primary to secondary, rated 3.3 nF, min. 400 Vac, min. 125 °C. Class Y1. | |
| 29 | Capacitor (CY201S) | FOWX2, CN | Various | Various | Located secondary to Ground, rated 3.3 nF, min. 400 Vac, min. 125 °C. Class Y1. | |
| 30 | Optical Isolator (PC101S) | FPQU2, CN | Various | Various | Rated minimum 3000 Vac isolation min., 110 °C max. operating temperature. | |
| 31 | Heat Sink for DP172, QP101 | - | Various | Various | Aluminum, secured to PWB by soldering for models. Measured overall 52.0 mm by 51.0 mm by 19.0 mm (L x W x H), 2.0 mm thick minimum. | |
| *32 | Heat Sink for QM201, DM261, DM262, NT801 | - | Various | Various | Aluminum, secured to PWB by soldering for models. Measured overall 51.0 mm by 32.0 mm by 20.0 mm (W x L x H), 2.0 mm thick minimum. | |
| 33 | Components | - | - | - | See ILL. 6 for complete list and electrical listing of all other components. | I6 |

Winding devices - See below for details.

| No. | Item | CCN | Manufacturer (File Number) | Part Number | Description / Technical Data | (F)IG (I)LL |
|-----|--|---------------------------------------|-------------------------------|-------------|--|----------------|
| 1 | Line Filters (LX101S, LX102S) - primary | - | - | - | Refer to Ill. 7 for details. | I7 |
| 1.1 | Core | - | - | - | Ferrite, toroidal type, overall 16.0 mm by 10.0 mm by 7.0 mm (OD x ID x H). | |
| 1.2 | Coil | OBMW2 | Various | Various | Two provided, enameled copper wire, rated minimum 130 °C. | |
| 1.3 | Core Cover | QMFZ2 | Various | Various | Rated minimum 105 °C, minimum 0.4 mm thick. | |
| 1.4 | Coil Separator | QMFZ2 | Various | Various | Rated minimum 105 °C, minimum 0.75 mm thick. | |
| 1.5 | Base | QMFZ2 | Various | Various | Phenolic, rated minimum 150 °C, minimum 0.51 mm thick. | |
| 1.6 | Tube | YDPU2 | Various | Various | Rated minimum 200 °C, minimum 300 V, VW-1, located at pins #3 and #4. | |
| 2 | Line filter (LX103S) - primary | - | - | - | Refer to Ill. 8 for details. | I8 |
| 2.1 | Core | - | - | - | Ferrite, toroidal type, overall 8.1 mm by 4.1 mm by 3.1 mm (OD x ID x H). | |
| 2.2 | Coil | OBMW2 and, OBJY2 or AVLV2 | Various | Various | Two provided, one is enameled copper wire and, another is three insulated wire or Teflon wire, each rated minimum 130 °C. | |
| 2.3 | Base | QMFZ2 | Various | Various | Phenolic, rated minimum 150 °C, minimum 0.81 mm thick. | |
| 2.4 | Tube | YDPU2 | Various | Various | Rated minimum 200 °C, minimum 300 V, VW-1, located at pins #2 and #4. | |
| 3 | Choke coil (LQ01) - primary | - | - | - | Refer to Ill. 9 for details. | I9 |
| 3.1 | Core | - | - | - | Ferrite, drum type, measured overall 6.5 mm by 3.1 mm by 7.5 mm (OD x ID x H). | |
| 3.2 | Coil | OBMW2 | Various | Various | Enameled copper wire, rated minimum 130 °C. | |
| 3.3 | Base | QMFZ2 | Various | Various | Phenolic, rated minimum 150 °C, minimum 0.46 mm thick. | |
| 3.4 | Tube | YDPU2 | Various | Various | Rated minimum 125 °C, 600 V, VW-1, intended to wrap round a body. | |

Winding devices - See below for details. (CON'T)

| No. | Item | CCN | Manufacturer (File Number) | Part/Model Number | Description / Technical Data | (F)IG (I)LL |
|-----|-------------------------------------|---------------------------------------|-------------------------------|----------------------|--|----------------|
| 4 | Line filter (L01) - secondary | - | - | - | Refer to Ill. 10 for details | I10 |
| 4.1 | Core | - | - | - | Ferrite, toroidal type, overall 8.1 mm by 4.1 mm by 3.1 mm (OD x ID x H). | |
| 4.2 | Coil | OBMW2 and, OBJY2 or AVLV2 | Various | Various | Two provided, one is enameled copper wire and, another is three insulated wire or Teflon wire, each rated minimum 130 °C. | |
| 4.3 | Base | QMFZ2 | Various | Various | Phenolic, rated minimum 150 °C, minimum 0.81 mm thick. | |
| 4.4 | Tube | YDPU2 | Various | Various | Rated minimum 200 °C, minimum 300 V, VW-1, located at pins #2 and #4. | |
| 5 | PFC (LP01) - primary | - | - | - | Refer to Ill. 11 for details. | I11 |
| 5.1 | Core | - | - | - | Ferrite, PQ type, measured overall 26.5 mm by 19.5 mm by 19.0 mm (L x H x W). | |
| 5.2 | Bobbin | QMFZ2 | Various | Various | Phenolic (PF), rated minimum 150 °C, 0.81 mm thick minimum. | |
| 5.3 | Coil | OBMW2 and OBJT2 | Various | Various | Two provided, one is enameled copper wire and another is triple insulated wire, each rated minimum 130 °C. | |
| 5.4 | Insulation Tape | OANZ2 | Various | Various | Rated minimum 130 °C. | |
| 5.5 | Barrier Tape | OANZ2 | Various | Various | Rated minimum 130 °C. | |
| 5.6 | Varnish | OBOR2 | Various | Various | Rated minimum 130 °C. | |
| 6 | Transformer (PM101) - primary | - | - | - | Refer to Ill. 12 for details. | I12 |
| 6.1 | Core | - | - | - | Ferrite, EE type, measured overall 10.3 mm by 11.5 mm by 4.75 mm (L x W x H). | |
| 6.2 | Bobbin | QMFZ2 | Various | Various | Phenolic (PF), rated minimum 150 °C, 0.81 mm thick minimum. | |
| 6.3 | Coil | OBMW2 | Various | Various | Three provided, enameled copper wire, rated minimum 130 °C. | |
| 6.4 | Insulation Tape | OANZ2 | Various | Various | Rated minimum 130 °C. | |
| 6.5 | Varnish | OBOR2 | Various | Various | Rated minimum 130 °C. | |

Winding devices - See below for details. (CON'T)

| No. | Item | CCN | Manufacturer (File Number) | Part/Model Number | Description / Technical Data | (F)IG (I)LL |
|-----|--|-----------------------|---|---|--|----------------|
| 7 | Transformer (TM101)- isolated primary to secondary | - | - | - | Refer to Ills. 13 and 14 for detailed construction and insulation system (Class 130 (B) information). | |
| 7.1 | Electrical insulation system | OBJY2 | LITE-ON TECHNOLOGY CORP (E140167) | LSE-B11 | Rated Class 130 (Class B). | I13 |
| | Alternate | OBJY2 | CLOVER HI-TECH CO LTD (E167514) | SC-04B | Same as above. | I14 |
| 7.2 | Core | - | - | - | Ferrite, EER type, measured overall 38.0 mm by 30.9 mm by 11.4 mm (L x W x H). | |
| 7.3 | Bobbin | QMFZ2 | Belong to electrical insulation system | Belong to electrical insulation system | Phenolic (PF), rated minimum 150 °C, minimum 0.65 mm thick. | |
| 7.4 | Cap | QMFZ2 | Belong to electrical insulation system | Belong to electrical insulation system | Polybutylene Terephthalate (PBT), rated minimum 130 °C, minimum 0.75 mm thick. | |
| 7.5 | Coil | OBMW2 and OBJT2 | Belong to electrical insulation system | Belong to electrical insulation system | Enamel copper wire for primary coil and triple insulated wire for secondary coil, minimum 130 °C. | |
| 7.6 | Core fixing tape | OANZ2 | Belong to electrical insulation system | Belong to electrical insulation system | Rated minimum 130 °C. | |
| 7.7 | Varnish | OBOR2 | Belong to electrical insulation system | Belong to electrical insulation system | Rated minimum 130 °C. | |

Model PSDV850101A - FIGS. 6 THRU 10

General - The design, shape and arrangement shall be as illustrated. Model PSDV850101A is identical to Model PSDV121101A except for model designation, PFC (LP01), Transformer (TM101), PWB pattern and some components in primary and secondary circuit, additionally model PSDV850101A is not potted, detailed differences described below:

| No. | Item | CCN | Manufacturer (File Number) | Part/Model Number | Description / Technical Data | (F)IG (I)LL |
|-----|--------------------------------------|--------------|---|----------------------|--|----------------|
| 1 | Case Body (Side and Bottom) | - | Various | Various | Aluminum alloy sheet metal, min. 1.5 mm thick, overall measured 207.0 mm by 60.0 mm by 30.5 mm (L x W x H). | F7, I15 |
| 2 | Top Case | - | Various | Various | Aluminum alloy sheet metal, min. 1.5 mm thick, overall measured 207.0 mm by 60.0 mm by 7.5 mm (L x W x H). | F6, I16 |
| 3 | Side Cover (Input) | - | Various | Various | Aluminum alloy sheet metal, min. 1.5 mm thick overall measured 60.0 mm by 32.0 mm by 16.0 mm (L x W x H), mechanically secured to Case Body by screws. | F6, I17 |
| 4 | Side Cover (Output) | - | Various | Various | Same as above. | F7, I18 |
| 5 | Potting Compound | N/A | N/A | N/A | No potting. | |
| *6 | Printed Wiring Board | ZPMV2, CN | Various | Various | Rated minimum 130 °C, V-1. Measured approx. 200.0 mm by 53.5 mm (L x W), 1.6 mm thick. Suitable for support of live parts. | I19 |
| 7 | Thermal PAD | QMTR2 | Various | Various | Rated minimum 150 °C, V-0. Measured approx. 30.0 mm by 40.0 mm (L x W), 1.0 mm thick. | |
| 8 | Fuse (FS101) | JDYX2, CN | LITTELFUSE WICKMANN WERKE (E67006) | 369 + | Rated 3.15 A, 300 Vac, connected in series with ungrounded supply. | |
| | Alternate | JDYX2, CN | CONQUER ELECTRONICS CO LTD (E82636) | MST | Same as above. | |
| *9 | Capacitor (CP171) | - | Various | Various | Rated min. 500 Vdc, min. 110 °C, 470 nF max, located on primary circuit. | |
| 10 | Bridge Diode (BD101) | - | Various | Various | Rated 600 V min., 8 A max. | |
| 11 | Electrolytic Capacitor (CP151) | - | Various | Various | Rated min. 500 V, 47 uF, 105 °C. | |
| 12 | Heat Sink for BD101 | - | Various | Various | Aluminum, secured to PWB by soldering for models. Measured overall 50.5 mm by 20.0 mm by 8.0 mm (L x H x W), 2.0 mm thick minimum. | |
| 13 | Components | - | - | - | See ILL. 20 for complete list and electrical listing of all other components. | I20 |

Winding devices - See below for details.

| No. | Item | CCN | Manufacturer (File Number) | Part/Model Number | Description / Technical Data | (F)IG (I)LL |
|-----|--|-----------------------|---|---|---|----------------|
| 1 | PFC (LP01) - primary | - | - | - | Refer to Ill. 21 for details. | I21 |
| 1.1 | Core | - | - | - | Ferrite, PQ type, measured overall 26.5 mm by 19.15 mm by 19.0 mm (L x H x W). | |
| 1.2 | Bobbin | QMFZ2 | Various | Various | Phenolic (PF), rated minimum 150 °C, 0.51 mm thick minimum. | |
| 1.3 | Coil | OBMW2 and OBJT2 | Various | Various | Two provided, one is enameled copper wire and another is triple insulated wire, each rated minimum 130 °C. | |
| 1.4 | Insulation Tape | OANZ2 | Various | Various | Rated minimum 130 °C. | |
| 1.5 | Barrier Tape | OANZ2 | Various | Various | Rated minimum 130 °C. | |
| 1.6 | Varnish | OBOR2 | Various | Various | Rated minimum 130 °C. | |
| 2 | Transformer (TM101)- isolated primary to secondary | - | - | - | Refer to Ills. 22 and 23 for detailed construction and insulation system (Class 130 (B) information). | |
| 2.1 | Electrical insulation system | OBJY2 | LITE-ON TECHNOLOGY CORP (E140167) | LSE-B10 | Rated Class 130 (Class B). | I22 |
| | Alternate | OBJY2 | CLOVER HI-TECH CO LTD (E167514) | SC-05B | Same as above. | I23 |
| 2.2 | Core | - | - | - | Ferrite, EER type, measured overall 38.0 mm by 30.9 mm by 11.4 mm (L x W x H). | |
| 2.3 | Bobbin | QMFZ2 | Belong to electrical insulation system | Belong to electrical insulation system | Phenolic (PF), rated minimum 150 °C, minimum 0.65 mm thick. | |
| 2.4 | Cap | QMFZ2 | Belong to electrical insulation system | Belong to electrical insulation system | Polybutylene Terephthalate (PBT), rated minimum 130 °C, minimum 0.75 mm thick. | |
| 2.5 | Coil | OBMW2 and OBJT2 | Belong to electrical insulation system | Belong to electrical insulation system | Enamel copper wire for primary coil and triple insulated wire for secondary coil, minimum 130 °C. | |
| 2.6 | Core fixing tape | OANZ2 | Belong to electrical insulation system | Belong to electrical insulation system | Rated minimum 130 °C. | |
| 2.7 | Varnish | OBOR2 | Belong to electrical insulation system | Belong to electrical insulation system | Rated minimum 130 °C. | |