Lelon

HBV Series

Features

- 105°C, 10,000 hours assured
- · Low ESR and High ripple current
- · RoHS Compliance

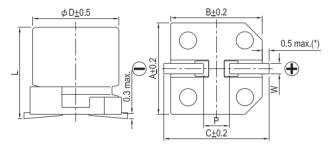


Marking color: Dark Green

Specifications

| Items | Performance | | | | | | | |
|--|--|---|---------------------------------------|--|---|------------|-----------------|--|
| Category Temperature Range | -55°C ~+105°C | | | | | | | |
| Capacitance Tolerance | ±20% (at 120Hz, 2 | | | | | | (at 120Hz, 20°C | |
| Leakage Current (at 20°C) | I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF, V = rated DC working voltage in V | | | | | | | |
| Tanδ (at 120Hz, 20°C) | See Standard Ratings | e Standard Ratings | | | | | | |
| Endurance | | Test Time Capacitance Change Tanō ESR | | 10,000 Hrs Within ±30% of initial value | | | | |
| | | | | Less than 200% of specified value Less than 200% of specified value | | | | |
| | | Leakage Current Within specified value | | | | | | |
| | * The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 10,000 hours at 105°C. * After storage for 1,000 hours at 105 ± 2°C with no voltage applied and then being stabilized at 20°C, capacitors shall meet the | | | | | | | |
| | ripple current for 10 | ,000 hours at 105 | 5°C. | | | | | |
| Shelf Life Test | ripple current for 10 | ,000 hours at 105 00 hours at 105 ± | 5°C. : 2°C with no v | voltage applied and th | | | | |
| Shelf Life Test Resistance to Soldering Heat (Please refer to page 25 for | ripple current for 10 * After storage for 1,0 | 000 hours at 105 00 hours at 105 ± ndurance. (With v | 5°C. 2°C with no voltage treatme | voltage applied and thent) Within ±10 Within s | en being stabilized at % of initial value pecified value | | | |
| | ripple current for 10 * After storage for 1,0 | ,000 hours at 105 00 hours at 105 ± ndurance. (With v | 5°C. : 2°C with no voltage treatme | voltage applied and thent) Within ±10 Within s Within s | en being stabilized at % of initial value | | | |
| Resistance to Soldering Heat (Please refer to page 25 for | ripple current for 10 * After storage for 1,0 | ,000 hours at 105 ± ndurance. (With v Capacitance (Tano ESR Leakage Cu | 5°C. : 2°C with no voltage treatme | voltage applied and thent) Within ±10 Within s Within s | en being stabilized at % of initial value pecified value pecified value | 20°C, capa | | |

Diagram of Dimensions

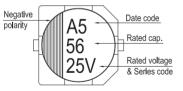


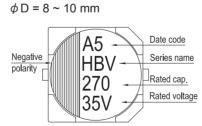
| Lead S | pacing and Di | ameter | | | l | Jnit: mm |
|----------|---------------|--------|------|------|-----------|----------|
| ϕ D | L | Α | В | С | W | P ± 0.2 |
| 6.3 | 5.8 ± 0.3 | 6.6 | 6.6 | 7.2 | 0.5 ~ 0.8 | 2.0 |
| 6.3 | 7.7 ± 0.3 | 6.6 | 6.6 | 7.2 | 0.5 ~ 0.8 | 2.0 |
| 8 | 10.0 ± 0.5 | 8.3 | 8.3 | 9.0 | 0.7 ~ 1.1 | 3.1 |
| 8 | 12.0 ± 0.5 | 8.3 | 8.3 | 9.0 | 0.7 ~ 1.1 | 3.1 |
| 10 | 10.0 ± 0.5 | 10.3 | 10.3 | 11.0 | 0.7 ~ 1.3 | 4.7 |
| 10 | 12.5 ± 0.5 | 10.3 | 10.3 | 11.0 | 0.7 ~ 1.3 | 4.7 |

(*): For 6.3ϕ is 0.4 max.

Marking







Lelon

Conductive Polymer Hybrid Capacitors

Standard Ratings

Dimension: $\phi D \times L(mm)$

Ripple Current: mA/rms at 100k Hz, 105°C

| Rated Volt. | Surge Voltage | Capacitance | Size | Tanδ | LC | ESR | Rated R. C. |
|-------------|---------------|-------------|----------------|---------------|------|---------------------------|----------------------------|
| (V) | (V) | (μF) | ϕ D×L(mm) | (120Hz, 20°C) | (µA) | (mΩ/at 100kHz, 20°C max.) | (mA/rms at 100k Hz, 105°C) |
| 16V (1C) | | 82 | 6.3 × 5.8 | 0.16 | 13.1 | 50 | 1,300 |
| | 18.4 | 150 | 6.3 × 7.7 | 0.16 | 24 | 30 | 2,000 |
| | 10.4 | 270 | 8 × 10 | 0.16 | 43.2 | 27 | 2,300 |
| | | 470 | 10 × 10 | 0.16 | 75.2 | 20 | 2,500 |
| 25V (1E) | | 56 | 6.3 × 5.8 | 0.14 | 14 | 50 | 1,300 |
| | | 100 | 6.3 × 7.7 | 0.14 | 25 | 30 | 2,000 |
| | 28.8 | 220 | 8 × 10 | 0.14 | 55 | 27 | 2,300 |
| | | 330 | 10 × 10 | 0.14 | 82.5 | 20 | 2,500 |
| | | 330 | 10 × 12.5 | 0.14 | 82.5 | 16 | 2,900 |
| | | 27 | 6.3 × 5.8 | 0.12 | 9.5 | 60 | 1,300 |
| 35V (1V) | 40.3 | 68 | 6.3 × 7.7 | 0.12 | 23.8 | 35 | 2,000 |
| | | 150 | 8 × 10 | 0.12 | 52.5 | 27 | 2,300 |
| | | 270 | 10 × 10 | 0.12 | 94.5 | 20 | 2,500 |
| | | 22 | 6.3 × 5.8 | 0.10 | 11 | 80 | 1,100 |
| 50V(1H) | 57.5 | 33 | 6.3 × 7.7 | 0.10 | 16.5 | 40 | 1,600 |
| | 57.5 | 68 | 8 × 10 | 0.10 | 34 | 30 | 1,800 |
| | | 100 | 10 × 10 | 0.10 | 50 | 28 | 2,000 |
| 63V(1J) | 72.5 | 10 | 6.3 × 5.8 | 0.08 | 6.3 | 120 | 1,000 |
| | | 22 | 6.3 × 7.7 | 0.08 | 13.9 | 80 | 1,500 |
| | | 27 | 8 × 12 | 0.08 | 17 | 40 | 1,700 |
| | | 33 | 8 × 10 | 0.08 | 20.8 | 40 | 1,700 |
| | | 56 | 10 × 10 | 0.08 | 35.3 | 30 | 1,800 |
| 00) // 416 | 92.0 | 22 | 8 × 10 | 0.08 | 17.6 | 45 | 1,550 |
| 80V(1K) | | 33 | 10 × 10 | 0.08 | 26.4 | 36 | 1,700 |

Part Numbering System

HBV Series 220 μ F ±20% 25V Carrier Tape 8 ϕ ×10L Pb-free and PET coating case

<u>1E</u> **HBV 221** M <u>TR</u> 0810 Lead Wire and Rated Capacitance Package Terminal Series Name Capacitance Case size Tolerance Voltage Coating Type Type Type

Note: For more details, please refer to "Part Numbering System (SMD Type)" on page 15.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Aluminium Organic Polymer Capacitors category:

Click to view products by Lelon manufacturer:

Other Similar products are found below:

MPP684J4240815LC B32529C0222J000 PCZ1V181MCLIGS PCZ1V221MCLIGS PCZ1E331MCLIGS PCZ1E271MCLIGS
PCZ1E151MCL6GS ECASD40E337M009KA0 HVK-63V100MF61E-R2 UBT1V102MHD8 UBT2A221MHD8 UBT2C330MPD8
35PZE270M10X9 35PZF270M10X9 ULR128M0GF08 ULR187M1CF1ARRX0CR ULR277M0JE08RRX0CR ULR337M0JE08RRX0CR
ULR477M0JF08 ULR567M0EE08RRX0CR ULR567M0JF08 ULR827M0JF1A UPE0E561MNN6308 ULR337M1CF08
ULR108M0JF1ARRX0CR ULR108M0JF08RRX0CR UPE0E471MNN6308 ULR477M0ED09RRX0CR ULR128M0JF1ARRX0CR
UBT1J470MPD8 63PZE56M10X9 50PZF100M10X9 63PZF56M10X9 A750KK477M1AAAE016 A755MS477M1CAAE013
EEFCD0J470R 50SEK33M ULR277M1CF1A ULR158M0EF1ARRX1CR ULR477M1CG1B EEUEB1H471 A755MS158M0JAAE013
A759MS686M1JAAE047 25PZE330M10X9 A755KS227M1EAAE025 A759BQ106M1VAAE090 A759KS106M2CAAE110
SMPC_224K0630DB2315 EEF-HX1E150R KJ2G820MNN1830