

# Liron® Screw Terminal Capacitor

## LPG series 85°C 18000 hours



- Rohs requirements.
- 85°C for 18000 hours
- Used for switching power supply, servo, inverter, medical electronics, photovoltaic solar energy, wind energy long life industrial products.

### Product description

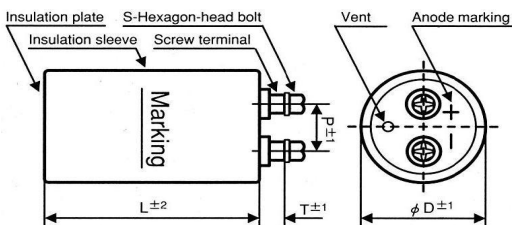
| Item  | Characteristic  |
|---|---|
| Operating temperature range                                 | -40°C ~ +85°C   |
| Rated voltage(WV/V)   | 350V ~ 450V   |
| Capacitance(CAP/C)  | 1000 ~ 15000  |
| Tolerance(CAP/C)  | ±20% (25°C, 120Hz)  |
| Leakage current   | LC≤0.01CV(μA) or 5mA, take the smaller value (25°C, 5minutes) |
| Dissipation factor<br>DF/tanδ(25°C, 120Hz)                  | ≤0.20   |
| Temperature characteristics<br>(Capacitance ratio at 120Hz) | C(-40°C)/C(+25°C)≤0.6   |
|   | C(-25°C)/C(+25°C)≤0.7   |

| Load time                                   | Working lifetime                         |         | Standard lifetime                        | Durability                               | High temperature storage   |
|---|--|---------|--|--|--|
|   |  | >18000h | >200000h                                 | 18000h                                   | 18000h   |
| LC/I(25°C, 120Hz)                           | Within the rated specification value.    |         | Within the rated specification value.    | Within the rated specification value.    | Within the rated specification value.  |
| Capacitance change                          | Within ±30% of initial value             |         | Within ±20% of initial value             | Within ±20% of initial value             | Within ±20% of initial value   |
| Dissipation factor                          | Within 300% of rated specification value |         | Within 200% of rated specification value | Within 200% of rated specification value | Within 200% of rated specification value   |
| Environmental condition:<br>Applied voltage | UR                                       | UR      | UR                                       | UR                                       | Apply rated working voltage for 60 minutes, and conduct the test after 24-hour recovery. |
| Applied current                             | IR                                       | 1.2×IR  | IR                                       | IR=0                                     |  |
| Application temperature                     | 85°C                                     | 40°C    | 85°C                                     | 85°C                                     |  |

### Ripple current correction factor

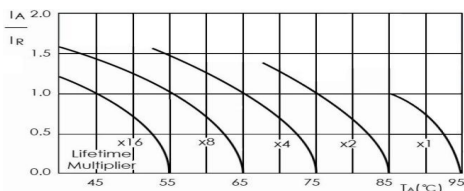
| Temperature °C | 40          | 55   | 60   | 85   | Frequency | 50/60Hz | 120Hz       | 300Hz | 1KHz | ≥10KHz |
|----------------|-------------|------|------|------|-----------|---------|-------------|-------|------|--------|
|                | Coefficient | 1.89 | 1.76 | 1.67 |           | 1.00    | Coefficient | 0.80  | 1.00 | 1.10   |

### Drawing unit: mm



| ΦD  | P    | S     | T    | Cap materiall |
|-----|------|-------|------|---------------|
| 36  | 12.7 | M5×10 | 6    | EP            |
| 51  | 22   | M5×10 | 5.5  | EP            |
| 64  | 28.6 | M5×10 | 5.5  | EP            |
| 77  | 31.4 | M5×10 | 4.5  | EP            |
| 90  | 31.4 | M5×10 | 4.5  | EP            |
| 101 | 41.5 | M8×17 | 11.5 | EP            |

### Life curve



Multiplier of useful life as a function of ambient temperature and ripple current load  $I_A$ : actual ripple current at 120Hz,  $I_R$ : rated ripple current at 120Hz 85°C

■LPG series:85°C 18000 hours screw capacitor

| WV (V.DC)      | CAP<br>25°C,<br>120Hz | DF<br>25°C,<br>120Hz | ESR (Max.)<br>25°C,<br>120Hz | ESR(typ.)<br>25°C,<br>120Hz | Rated Rippie<br>Current<br>85°C, 120Hz | Size<br>ΦD×L<br>(mm) | Code P/N          |
|----------------|-----------------------|----------------------|------------------------------|-----------------------------|--|----------------------|-------------------|
| (V.DC)         | (μF)                  |                      | (mΩ)                         | (mΩ)                        | (Arms)                                 | (mm)                 | -                 |
| 350<br>2V(400) | 1000                  | 0.20                 | 99                           | 69                          | 3.8                                    | 51 x 80              | LPG 2V102MC080*** |
|                | 1200                  | 0.20                 | 90                           | 63                          | 4.2                                    | 51 x 80              | LPG 2V122MC080*** |
|                | 1500                  | 0.20                 | 76                           | 53                          | 5.1                                    | 51 x 100             | LPG 2V152MC100*** |
|                | 1800                  | 0.20                 | 60                           | 42                          | 5.7                                    | 51 x 120             | LPG 2V182MC120*** |
|                | 2200                  | 0.20                 | 43                           | 30                          | 7.1                                    | 51 x 130             | LPG 2V222MC130*** |
|                | 2700                  | 0.20                 | 36                           | 25                          | 7.6                                    | 64 x 96              | LPG 2V272MD096*** |
|                | 3300                  | 0.20                 | 33                           | 23                          | 9.1                                    | 64 x 115             | LPG 2V332MD115*** |
|                | 3900                  | 0.20                 | 26                           | 18                          | 10.4                                   | 64 x 130             | LPG 2V392MD130*** |
|                | 4700                  | 0.20                 | 21                           | 15                          | 12.3                                   | 64 x 145             | LPG 2V472MD145*** |
|                |                       | 0.20                 | 23                           | 16                          | 11.5                                   | 77 x 115             | LPG 2V332ME115*** |
|                | 5600                  | 0.20                 | 19                           | 13                          | 14.6                                   | 77 x 130             | LPG 2V562ME130*** |
|                |                       | 0.20                 | 20                           | 14                          | 13.2                                   | 77 x 155             | LPG 2V562ME155*** |
|                | 6800                  | 0.20                 | 17                           | 12                          | 15.5                                   | 77 x 155             | LPG 2V682ME155*** |
|                | 8200                  | 0.20                 | 16                           | 11                          | 18.2                                   | 90 x 157             | LPG 2V822MF157*** |
|                | 10000                 | 0.20                 | 14                           | 10                          | 19.8                                   | 90 x 157             | LPG 2V103MF157*** |
| 12000          | 0.20                  | 11                   | 8                            | 23.8                        | 90 x 196                               | LPG 2V123MF196***    |                   |
| 15000          | 0.20                  | 9                    | 6                            | 28.3                        | 90 x 236                               | LPG 2V153MF236***    |                   |
| 400<br>2G(450) | 1000                  | 0.20                 | 99                           | 69                          | 3.8                                    | 51 x 80              | LPG 2G153MC080*** |
|                | 1200                  | 0.20                 | 90                           | 63                          | 4.6                                    | 51 x 100             | LPG 2G122MC100*** |
|                | 1500                  | 0.20                 | 74                           | 52                          | 5.6                                    | 51 x 120             | LPG 2G152MC120*** |
|                | 1800                  | 0.20                 | 60                           | 42                          | 6.5                                    | 51 x 130             | LPG 2G182MC130*** |
|                | 2200                  | 0.20                 | 56                           | 39                          | 6.9                                    | 64 x 96              | LPG 2G222MD096*** |
|                | 2700                  | 0.20                 | 53                           | 37                          | 8.2                                    | 64 x 115             | LPG 2G272MD115*** |
|                | 3300                  | 0.20                 | 39                           | 27                          | 9.6                                    | 64 x 130             | LPG 2G332MD130*** |
|                | 3900                  | 0.20                 | 36                           | 25                          | 11.1                                   | 64 x 145             | LPG 2G392MD145*** |
|                |                       | 0.20                 | 39                           | 27                          | 10.4                                   | 77 x 115             | LPG 2G392ME115*** |
|                | 4700                  | 0.20                 | 27                           | 19                          | 13.4                                   | 64 x 145             | LPG 2G472MD145*** |
|                |                       | 0.20                 | 29                           | 20                          | 12.1                                   | 77 x 130             | LPG 2G472ME130*** |
|                | 5600                  | 0.20                 | 26                           | 18                          | 14.6                                   | 77 x 145             | LPG 2G562ME145*** |
|                |                       | 0.20                 | 26                           | 18                          | 14.1                                   | 77 x 155             | LPG 2G562ME155*** |
|                | 6800                  | 0.20                 | 21                           | 15                          | 16.5                                   | 90 x 157             | LPG 2G682MF157*** |
|                | 8200                  | 0.20                 | 20                           | 14                          | 18.2                                   | 90 x 157             | LPG 2G822MF157*** |
| 10000          | 0.20                  | 16                   | 11                           | 21.7                        | 90 x 196                               | LPG 2G103MF196***    |                   |
| 12000          | 0.20                  | 10                   | 7                            | 25.8                        | 90 x 236                               | LPG 2G123MF236***    |                   |
| 450<br>2W(500) | 1000                  | 0.20                 | 99                           | 69                          | 4.3                                    | 51 x 100             | LPG 2W102MC100*** |
|                | 1200                  | 0.20                 | 93                           | 65                          | 5.1                                    | 51 x 120             | LPG 2W122MC120*** |
|                | 1500                  | 0.20                 | 74                           | 52                          | 5.9                                    | 51 x 130             | LPG 2W152MC130*** |
|                | 1800                  | 0.20                 | 60                           | 42                          | 6.3                                    | 64 x 96              | LPG 2W182MD096*** |
|                | 2200                  | 0.20                 | 57                           | 40                          | 7.5                                    | 64 x 115             | LPG 2W222MD115*** |
|                | 2700                  | 0.20                 | 59                           | 41                          | 8.6                                    | 64 x 130             | LPG 2W272MD130*** |
|                |                       | 0.20                 | 57                           | 40                          | 8.8                                    | 77 x 115             | LPG 2W272ME115*** |
|                | 3300                  | 0.20                 | 43                           | 30                          | 10.2                                   | 64 x 145             | LPG 2W332MD145*** |
|                |                       | 0.20                 | 46                           | 32                          | 10.2                                   | 77 x 130             | LPG 2W332ME130*** |
|                | 3900                  | 0.20                 | 39                           | 27                          | 12.3                                   | 77 x 145             | LPG 2W392ME145*** |
|                | 4700                  | 0.20                 | 33                           | 23                          | 12.9                                   | 77 x 155             | LPG 2W472ME155*** |
|                | 5600                  | 0.20                 | 29                           | 20                          | 15.4                                   | 77 x 195             | LPG 2W562ME195*** |
|                |                       | 0.20                 | 31                           | 22                          | 14.9                                   | 90 x 157             | LPG 2W562MF157*** |
|                | 6800                  | 0.20                 | 29                           | 20                          | 18.1                                   | 90 x 196             | LPG 2W682MF196*** |
|                | 8200                  | 0.20                 | 24                           | 17                          | 19.9                                   | 90 x 196             | LPG 2W822MF196*** |
| 10000          | 0.20                  | 23                   | 16                           | 23.8                        | 90 x 236                               | LPG 2W103MF236***    |                   |

\*\*\*\* Indicates terminal type, length, and sleeve color;

Your company needs to know more about the product specifications, dimensions and other related data. If not all are listed, you can contact us by phone, WeChat or other tools to understand.

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