



## Power Type

## PV Series

### Features

- 3.0V operating voltage
- Small size and low-resistance
- Quick charge & discharge
- Environmentally friendly products
- Extended temperature to 85°C
- Humidity resistance @ RH90%

### Certification

- RoHS & REACH compliant
- UL recognized (File No. MH10260)

### Recommended Applications

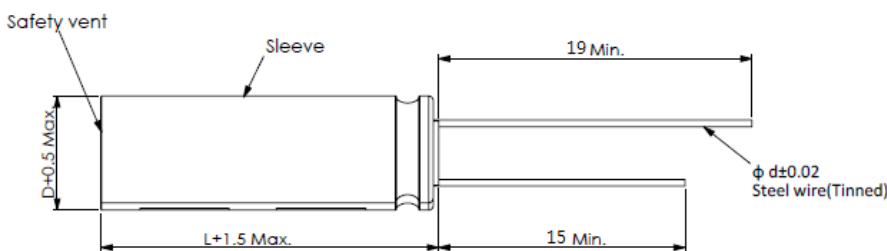
- Pulse power demand
- Hybrid battery packs
- Power tools



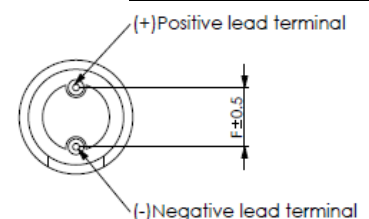
### Specification

| Items                    | Characteristics  |  |
|--------------------------|--|--|
| Rated Voltage            | 2.7 V  | 3.0 V  |
| Operating Temp. (Charge) | -40°C ~ 85°C   | -40°C ~ 65°C   |
| Surge Voltage            | 3.15 V   |  |
| Capacitance Tolerance    | -20% ~ +20% of Rated Capacitance                                       |  |
| Storage Temp.            | -40 °C to 85 °C  | -40 °C to 70 °C  |
| Test                     | Endurance  | Standards  |
| High Temp. Life          | 1000hrs @ Rated Voltage & Max. Operating Temp.                         | Must to meet standards as below after test:<br>CAP decline < 30% of Initial measurement.<br>ESR < 2 times specification value. |
| Shelf Life (Non-Charge)  | 1000hrs @ Max. Operating Temp.   |  |
| Life time                | 10 Years @ Rated Voltage & 25°C  |  |
| Cycle Life               | 500,000 Cycles @ 25°C<br>(Operating Between 50%~100% Of Rated Voltage) |  |

### Dimensions



| D | L  | d   | F   |
|---|----|-----|-----|
| 8 | 20 | 0.6 | 3.5 |



### Standard Ratings

| Rated Cap (F)   | Size (mm)  | Max. Internal Resistance (mΩ) |     | Max. LC (mA) | Stored Energy (Wh) | Specific Energy |        | Specific Power |             | Max. Peak Current (A) | Max. continuous current (A) | ISC (A) | Max. Weight (g) | Part Number   |
|-----------------|------------|-------------------------------|-----|--------------|--------------------|-----------------|--------|----------------|-------------|-----------------------|-----------------------------|---------|-----------------|---------------|
|                 |            | AC (1kHz, 1V)                 | DC  |              |                    | (Wh/kg)         | (Wh/l) | Pd (W/kg)      | Pmax (W/kg) |                       |                             |         |                 |               |
| measure at 25°C | $\Phi$ DXL |                               |     | 72hrs, 25°C  |                    |                 |        |                |             | 1s to 1/2V            |                             |         |                 |               |
| 3.3             | 8X20       | 160                           | 300 | 0.012        | 0.0041             | 2.5781          | 4.3192 | 2250           | 4688        | 2.49                  | 0.33                        | 10.00   | 1.6             | PV3R0335M0820 |

※DC IR is calculated by voltage drop( $\Delta V$ ) which is measured by the period of time from discharge start to 10 milliseconds later.

