



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

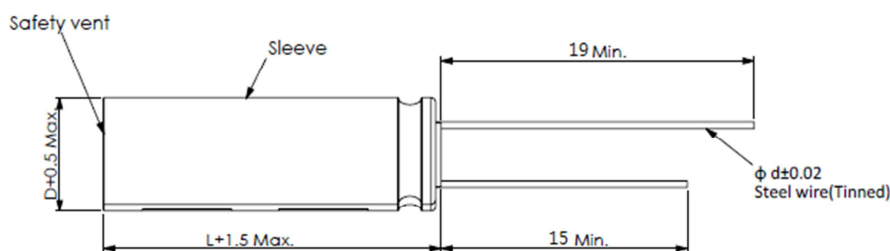
- Pulse power demand
- Hybrid battery packs
- Power tools



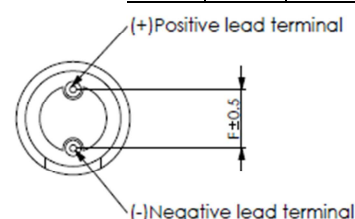
Specification

| 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: CAP decline < 30% of Initial measurement. 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 (Operating Between 50%~100% Of Rated Voltage) | |

Dimensions



| D | L | d | F |
|---|----|-----|-----|
| 8 | 16 | 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 | | | 72hrs, 25°C | (Wh/kg) | (Wh/l) | Pd (W/kg) | | | | | |
| measure at 25°C | ΦDXL | | | | | | | | | 1s to 1/2V (A) | | | | |
| 2 | 8X16 | 180 | 350 | 0.01 | 0.0025 | 1.9231 | 3.1085 | 2374 | 4945 | 1.77 | 0.2 | 8.57 | 1.3 | PV3R0205M0816 |

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

