



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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NESSCAP® Ultracapacitor Products

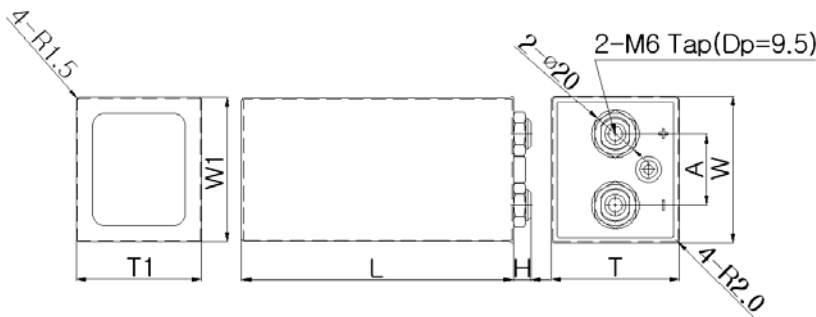
Features

EDLC(Electric Double Layer Capacitor)
Two screw terminals and prismatic design
Compliant with RoHS requirement (Ex : Cd, Pb)



Dimension

Dimension in mm (not to scale)



| Capacitance | Dimension (mm) | | | | | | |
|-------------|----------------|-------------|--------------|-------------|--------------|-------------|-------------|
| | L (+2.0) | W (+2.0) | W1 (+1.0) | T (+2.0) | T1 (+1.0) | H (±0.5) | A (±0.1) |
| 600F | 90 | 60 | 60 | 28 | 28 | 8 | 30 |
| 1700F | 165 | 60 | 60 | 28 | 28 | 8 | 30 |
| 3500F | 165 | 60 | 60 | 52 | 52 | 8 | 30 |
| 5000F | 165 | 60 | 60 | 72 | 72 | 8 | 30 |

Product & Spec.

| Rated Capacitance | Internal Resistance (mΩ) | | Max. Current (A) | Leakage Current (mA) | Stored Energy (Wh) | Specific Energy (Wh/kg) | Weight (g) | Part Number |
|---|--------------------------|--------|---|----------------------|--------------------|-------------------------|------------|--------------------|
| | AC(100Hz) | DC | | | | | | |
| Discharge with constant current at 25°C | | | 1 sec discharge rate to 1/2V _R | 72hours, 25°C | at V _R | Gravimetric | | |
| 600F | < 0.64 | < 0.83 | 541 | 1.7 | 0.608 | 2.90 | 210 | ESHSP-0600C0-002R7 |
| 1700F | < 0.50 | < 0.65 | 1,090 | 2.4 | 1.721 | 4.47 | 385 | ESHSP-1700C0-002R7 |
| 3500F | < 0.28 | < 0.36 | 2,091 | 5.5 | 3.544 | 5.17 | 685 | ESHSP-3500C0-002R7 |
| 5000F | < 0.25 | < 0.33 | 2,547 | 8.1 | 5.063 | 5.44 | 930 | ESHSP-5000C0-002R7 |

| | | |
|-------------------------------------|----------------|--|
| Rated Voltage, V _R | 2.7 V | |
| Surge Voltage | 2.85 V | |
| Capacitance Tolerance | 0% / +20% | |
| Operating Temperature Range | -40 ~ 65 °C | ΔC < 5% and ΔESR < 0.5 times of initially measured value at 25°C, respectively |
| Storage Temperature Range | -40 ~ 70 °C | |
| Life Time at RT ⁽¹⁾ | 10 years | (1) ΔC < 30% and ΔESR < 1 times of initially specified value , respectively and LC < specified value |
| Cycle Life (25°C) ⁽¹⁾⁽²⁾ | 500,000 cycles | (2) Cycle : between rated voltage and half rated voltage under constant current at 25°C |

* Life time is provisional value

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