

# SUPER CAPACITORS

## Cylindrical Type Super Capacitors

EIECSOUND

### PRODUCT SPECIFICATION

Small size, large capacity, good memory characteristics of voltage, high reliability, long life time, low temperature characteristics and free of environmental pollution. Can be applied to electronic field (electric toy, voice IC, LED light-emitting devi



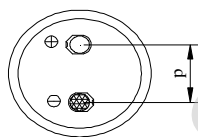
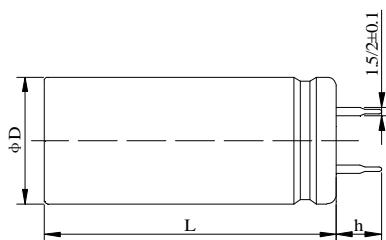
### General Characteristics

Item	Specification
Rated voltage(V)	2.7 V DC
Rated discharge apacitance	1 F - 400 F
Capacitance tolerance	-20%~+80%
Max. work voltage	2.95 V DC
Nominal Impedance	AC Imp 7 - 400 mΩ
	DC Imp 10-450 mΩ
Working temperature range	-25~70°C
Storage temperature range	-40~85°C

### Environmental Characteristics

Items	Specification/Condition
Temperature characteristics	ΔC/C   ≤30%, ESR ≤ specified ESR(25°C) at +70°C
	ΔC/C   ≤50%, ESR ≤ 4 times of specified ESR (25°C) at -25°C
High temperature load	ΔC/C   ≤30%, ESR ≤ 4 times of specified ESR (25°C) at +70±2°C/1000hrs/rated voltage
High temperature storage	ΔC/C   ≤30%, ESR ≤ 2 times of specified ESR (25°C) at +70±2°C/1000hrs/standby after fully charge
Humidity Resistance	+40°C±2, 90~95%RH, 240h,   ΔC/C   ≤30%, IL ≤ 2 times of specified leakage current, ESR ≤ 4 times of specified ESR (25°C)

### Dimensions



Part No.	Capacitance (F)	ESR (mΩ 1KHz)	Voltage (V DC)	ΦDxL (mm)	F (mm)
ES2R7105Z	1	400	2.7	8x13	3.5
ES2R7205Z	2	300	2.7	8x20	3.5
ES2R7305Z	3	220	2.7	8x20	3.5
ES2R7335Z	3.3	220	2.7	10x20	5.5
ES2R7475Z	4.7	120	2.7	12.5x21	5.5
ES2R7685Z	6.8	100	2.7	12.5x21	5.5
ES2R7805Z	8	90	2.7	12.5x21	5.5
ES2R7106Z	10	60	2.7	12.5x26	5.5
ES2R7206Z	20	40	2.7	16x26	7.5
ES2R7306Z	30	30	2.7	16x32.5	7.5
ES2R7506Z	50	25	2.7	18x41	7.5
ES2R7606Z	60	25	2.7	22x45	10.0
ES2R7906Z	90	18	2.7	22x45	10.0
ES2R7107Z	100	16	2.7	22x50	10.0
ES2R7127Z	120	15	2.7	25x45	10.0
ES2R7157Z	150	14	2.7	25x50	10.0
ES2R7207Z	200	12	2.7	25x60	10.0
ES2R7307Z	300	10	2.7	35x55	10.0
ES2R7367Z	360	8	2.7	35x60	10.0
ES2R7407Z	400	7	2.7	35x70	10.0

Notes:

1. Standard charge-discharge : In room temperature, Charge the capacitor with standard current to rated voltage ,hold on for 0.5h, then discharge with the same current to 0.1V.
2. Standard current: refer to 1mA/F;
3. Capacitance :  $C = I \Delta t / \Delta V$ ,  $\Delta V: 4.0 \sim 2.0V$ ;

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