

# TMCS01 Cylindrical Super Capacitor

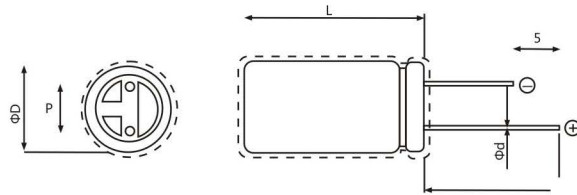
## Features

- Capacitance in farad level
- High discharge current up to 1000C, low ESR
- Long life time of more than 100,000times
- ROHS compliant



## Usage

Water meter, Ammeter, Gas meter, Tax machine, Solar lamp, Toys, Electromagnetic valve, LED, Electric vehicle, Car audio and video, Electric tool, Wind power generator, UPS etc.



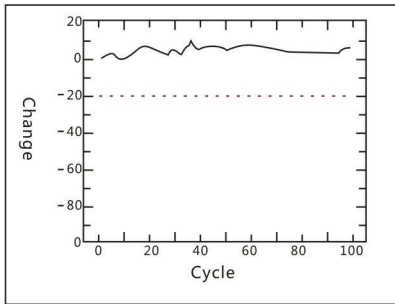
## Specifications

Rated voltage	2.7V
Surge voltage	3.0V
Rated capacitance	1F-300F
Capacitance tolerance	-20%~+80%(at25°C)
Operation temperature	-25-70°C
Temperature characteristics	From -25°C to +70°C,  ΔC  ≤ 30% and ESR ≤ 4 times of initially measured values
Moisture-proof characteristics	After fully charged, storage 500 hours at 55°C; and 90-95%RH,  ΔC  ≤ 30% and ESR ≤ 4 times of initially measured values
Load life test	After 1,000 hours application under 2.7V DC at 70°C,  ΔC  ≤ 30% of initial value and ESR ≤ 4 times of initially measured values
Cycle life	Charge-discharge for 100,000 cycles at 2.7V and 25°C,  ΔC  ≤ 30% and ESR ≤ 4 times of initially measured values

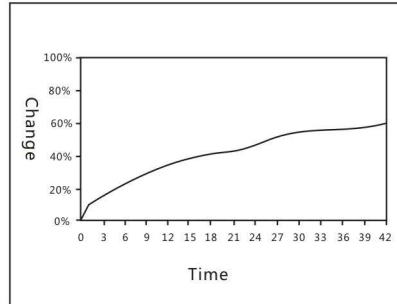
Rated voltage	Rated capacitance	ESR @1KHz(mΩ)	Size (ΦD*L)(mm)	P(mm)+0.5	Φd(mm)	Rated voltage	Rated capacitance	ESR @1KHz(mΩ)	Size (ΦD*L)(mm)	P(mm)	Φd(mm)
2.7V	1.0F	600	8*13	3.5	0.6	2.7V	30F	30	16*32	7.8	0.8
2.7V	2.0F	280	8*20	3.5	0.6	2.7V	50F	20	18*42	7.8	0.8
2.7V	3.0F	200	8*20	3.5	0.6	2.7V	100F	15	22*54	10	1
2.7V	3.3F	150	10*21	5.3	0.6	2.7V	120F	15	22*54	10	1
2.7V	4.7F	100	12.5*21	5.3	0.6	2.7V	150F	15	25*54	10	1
2.7V	8.0F	60	12.5*21	5.3	0.6	2.7V	300F	10	35*65	20	1.5
2.7V	10.0F	50	12.5*26.5	7.8	0.8						
2.7V	20.0F	40	16*26.5	7.8	0.8						

Remarks: 1. OEM/ODM is acceptable 2. Data above is only for reference, read specs for more details

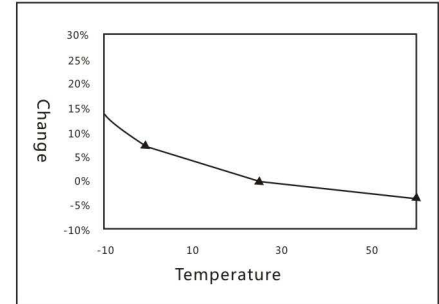
## Characteristics Curve



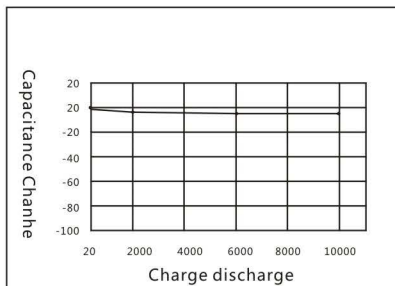
1、Cycle life Characteristic-Cycle Time vs, Imp Change



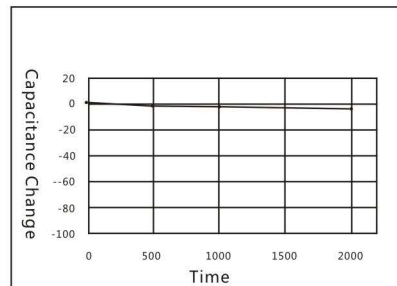
2、Load Life Test-Time vs Imp Change



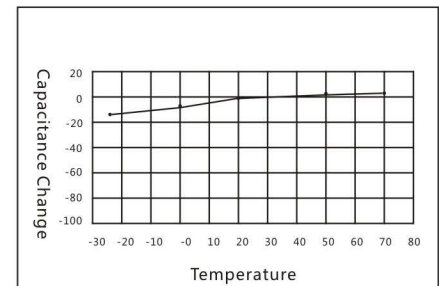
3、Temperature Characteristic-temperature vs Change



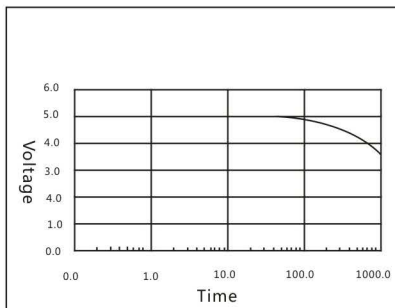
4、cycle life Characteristic-Cycle Time vs Cap Change



5、Load Life Test-Time vs Cap Change



6、Temperature Characteristic-temperature vs Cap Change



7、Self-discharge Characteristic-OCV vs. Time

**RoHS**

More than  
**100000**



## Application Case



Refrigerator



Aeromodding



Tank



Solar Lamp



Intelligent Electric Meter



Electric Bus



Intelligent Water Meter