



Green Tech Super Capacitor

360F 400F 600F

SP series

Features

- High power performance
- Low ESR
- Over 1,000,000 duty cycles
- Soldering Pillar terminal

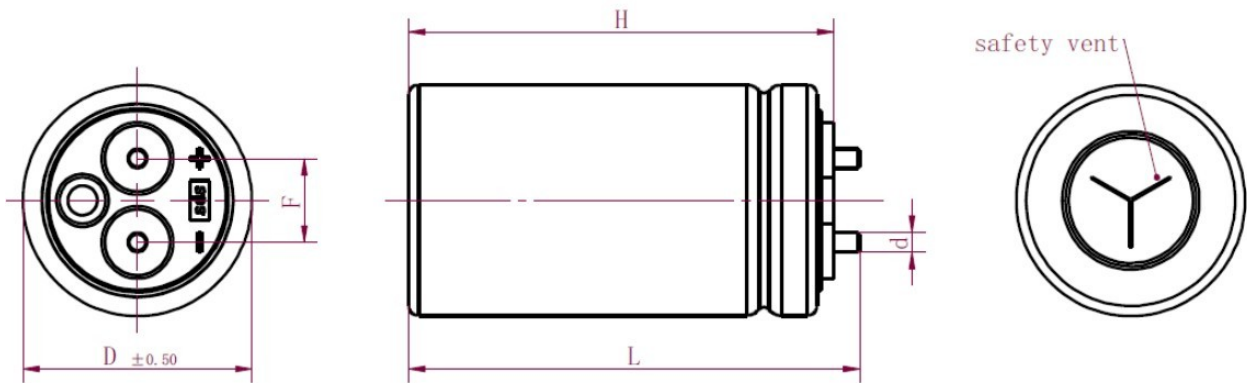


Applications

- Pitching control system of Wind Turbine Generator
- EV/HEV
- Solar energy conversion system
- Hybrid drive trains
- Mass transportation braking energy recovery system
- UPS/DVC
- Heavy duty machinery
- Locomotive engine startup system



Dimension



Dimension(mm)					
Capacitance	D	L	H	F	d
360F	35.2	68	64	13	3
400F	35.2	68	64	13	3
600F	35.2	102	98	13	3

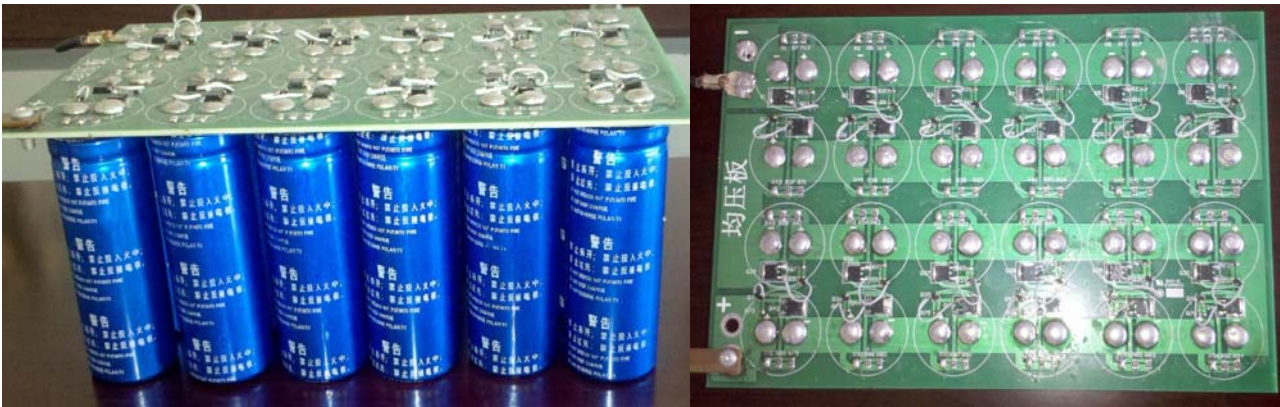
Specifications

Capacitance (F)	GT Part Number	Maximum ESR (mΩ)		Max. Continuous Current (A)	Max. Peak Current (A)	Leakage Current (mA) @ 25°C after 72 Hours	Max. Energy Stored (Wh)	Max. Energy Density (Wh/Kg)	Weight (g)
		AC @ 1kHz	DC						
360	GTSP-2R7-367UP	2.8	3.1	34	230	0.5	0.36	4.7	77
400	GTSP-2R7-407UP	2.5	3.0	36	245	0.8	0.41	5.3	78
600	GTSP-2R7-607UP	2.5	3.0	38	289	0.9	0.61	5.2	117

Working Voltage	2.7 VDC
Surge Voltage	2.85 VDC
Capacitance Tolerance	-10% to +20% (25°C)
Operating Temperature Range	-40°C to 65°C, $\Delta C < 20\%$, $\Delta ESR < 50\%$ of initial measured value @ 25°C
Storage Temperature Range	-40°C to 70°C
Life (1500hrs @ 85°C @ 2.65V DC)	$\Delta C < 30\%$ of initial measured value, $\Delta ESR < 100\%$ of specified value
storage(2 years @ 70°C, without loading)	$\Delta C < 30\%$ of initial measured value, $\Delta ESR < 100\%$ of specified value



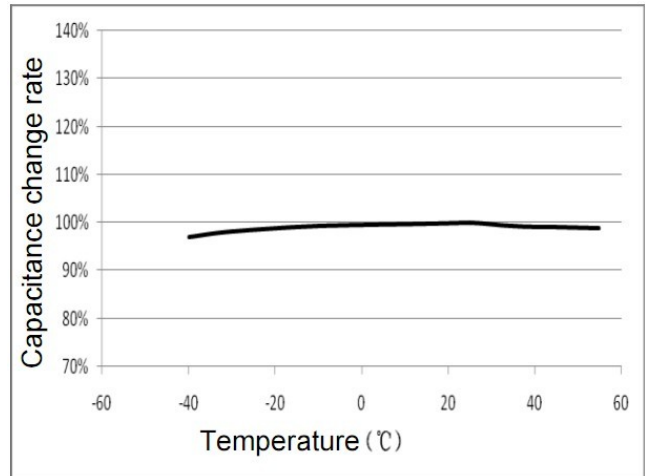
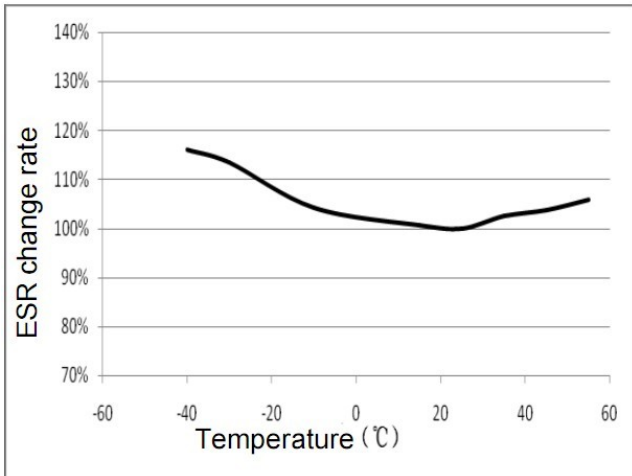
Install method



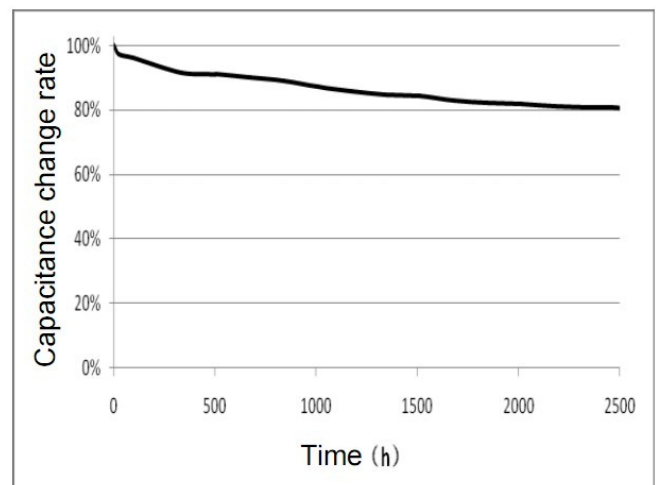
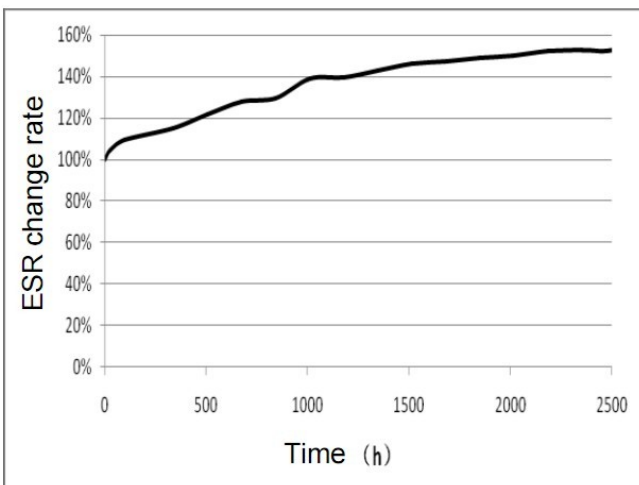
Soldering pillar terminals is convenient to soldering on the PCB.
It's more firm than screw hole type. And the ESR will be lower.
We suggest to connect with balance circuit board to protect the single capacitor when making modules.

Curve of performance testing

Temperature character:

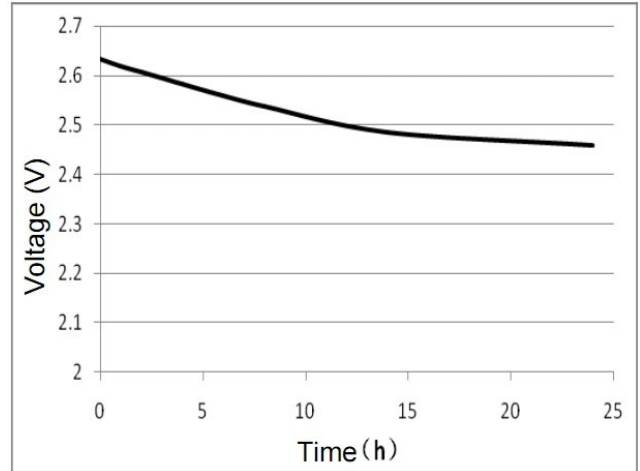
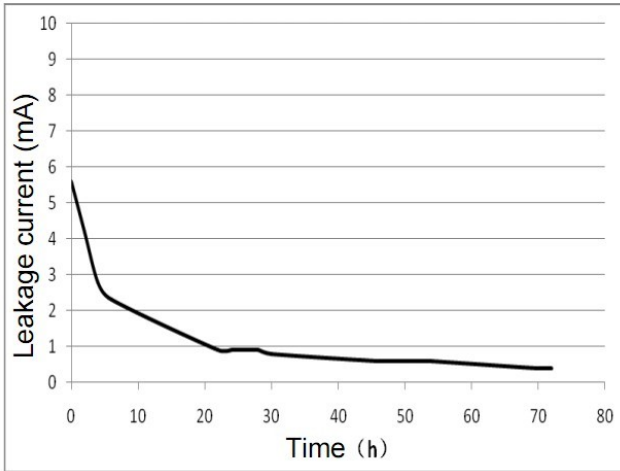


Life character:

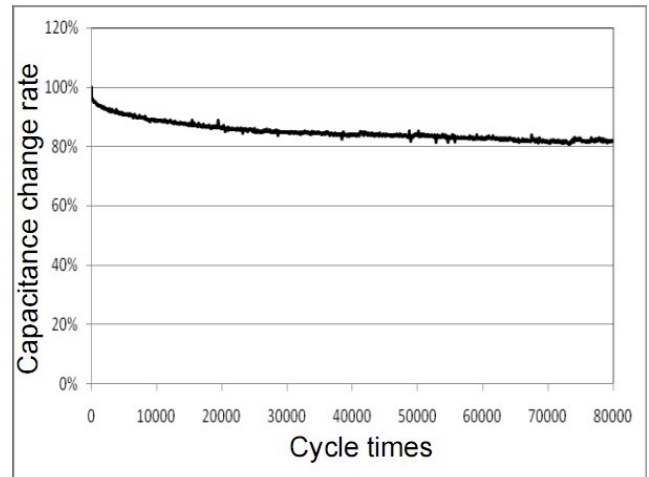
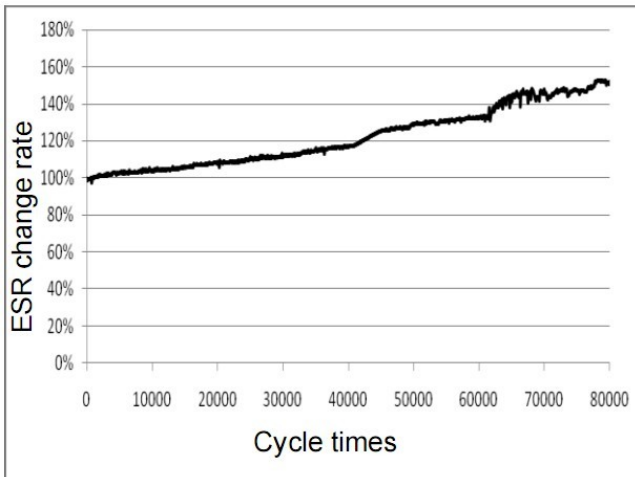




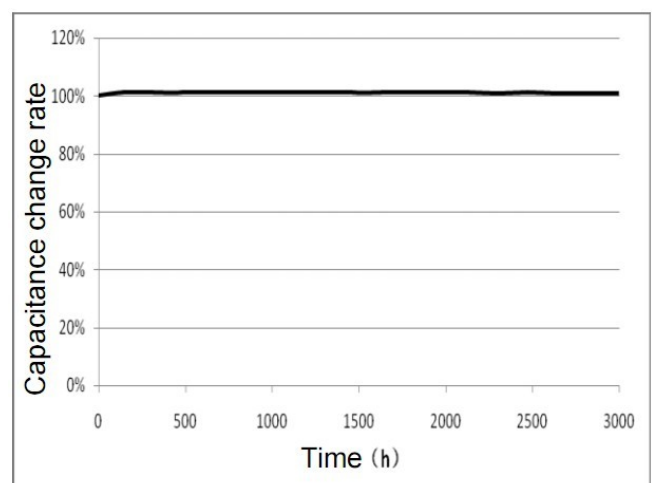
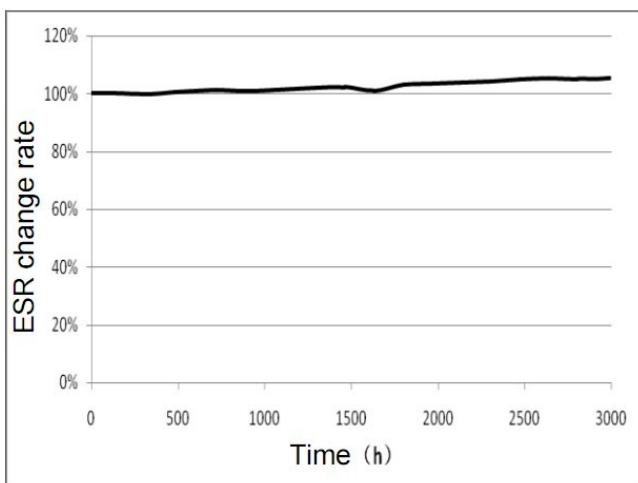
Leakage current,charge&discharge character



Charge&discharge cycle character



Store life character





GT Part NO.

<u>GT</u>	<u>S</u>	<u>□</u>	<u>□ □ □</u>	<u>□ □ □</u>	<u>□</u>	<u>□</u>			
Brand	Super capacitor	Series	Rated Voltage		Capacitance		Tolerance	Terminal Type	
Green Tech		Code Series	Code Voltage	Code Value (F)	Code Tolerance	Code Terminal			
		P Power	2R5 2.5V	104 0.1	J ±5%	H Horizontal			
		E Energy	2R7 2.7V	224 0.22	K ±10%	V Vertical			
		M Module	3R3 3.3V	334 0.33	M ±20%	C Coin			
		PH Hi-Temp P	5R0 5.0V	474 0.47	U -10%~20%	R Radial			
		EH Hi-Temp E	5R5 5.5V	105 1.0	V 10%~30%	T Thread			
		MH Hi-temp M	6R3 6.3V	155 1.5	Z -20%~80%	N Snap in			
		PP Big Power	012 12V	205 2.0		W Weldable			
		ML Military	016 16V	335 3.3		P Pillar			
			024 24V	475 4.7		S Screw in			
			036 36V	805 8.0		L Wire			
			048 48V	106 10					
			056 56V	206 20					
			075 75V	306 30					
			100 100V	506 50					
			120 120V	107 100					
			240 240V	158 1500					
				308 3000					
				508 5000					
				728 7200					