



## Features

- ✧ Ultra-high power density
- ✧ Ultra-low ESR
- ✧ Over 1,000,000 times duty cycles
- ✧ Threaded terminals
- ✧ RoHS, REACH compliant
- ✧ Maintenance free

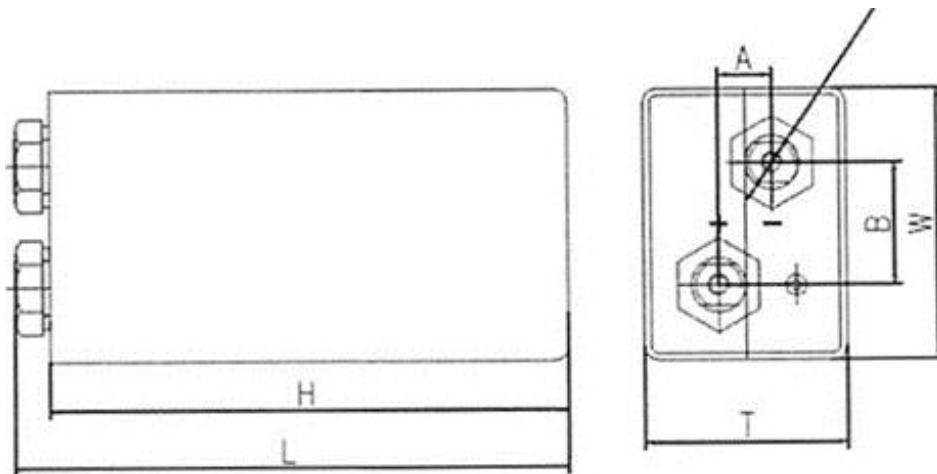
## Applications

- ✧ 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

This product is a prismatic capacitor with the principle of electric double-layer adsorption. It consists two electrodes, both of them mainly containing active carbon, an insulation separator and electrolyte filled in the cell. Rubber stoppers are used to seal the aluminum case, with two junctions located on the top.



Dimension(mm)								
GT Part Number	Voltage	Capacitance	L (±0.8)	W(±0.5)	T(±0.5)	H(±0.5)	B(±0.5)	A(±0.5)
GTSP-2R7-758UTP	2.7V	7500F	231	80	58	220	36	16
GTSP-2R7-958UTP	2.7V	9500F	231	80	58	220	36	16
GTSP-2R7-129UTP	2.7V	12000F	231	80	58	220	36	16



## Specifications

Cap. (F)	Voltage (V/DC)	Max. ESR (mΩ)		Max. Continuous Current (A)	Max. Peak Current (A)	Leakage Current (mA) @ 25°C after 72hrs	Max. Energy Stored (Wh)	Max. Energy Density (Wh/Kg)	Max. Power Density (W/kg)	Weight (g)
		AC @ 1kHz	DC							
7500F	2.7V	0.16	0.2	200	6000	13	7.59	5.71	6850	1330
9500F	2.7V	0.17	0.2	200	6000	15	9.61	7.15	6780	1345
12000F	2.7V	0.14	0.18	300	6000	20	12.15	8.67	6925	1400

Working Voltage	2.7 VDC
Surge Voltage	2.85 VDC
Capacitance Tolerance	-10% to +20%
Operating Temperature Range	-40°C to 65°C
Storage Temperature Range	-40°C to 70°C
Use Life	1500hrs @ 65°C @ 2.7V/DC ΔC<30% of initial measured value, ΔESR<100% of specified value
Shelf life	10 years @ 70°C without loading ΔC<30% of initial measured value, ΔESR<100% of specified value

## GT Part Number:

GT	S	□	□ □ □	□ □ □	□	□	□	□	□	□	□	
Brand	Super	Series		Rated Voltage		Capacitance		Tolerance		Terminal Type		Status
GTCAP	capacitor	Code	Series	Code	Voltage	Code	Value(F)	Code	Tolerance	Code	Terminal	Code
		P	Power	2R5	2.5V	104	0.1	J	±5%	C	Coin	S=Standard
		E	Energy	2R7	2.7V	224	0.22	K	±10%	H	Horizontal	C=Customized
		M	Module	3R3	3.3V	474	0.47	M	±20%	L	Lug	P=Prismatic
		PP	Big Power	5R0	5.0V	105	1.0	U	-10%~20%	N	Snap in	S=Soft roll
		PH	Hi-Temp P	5R5	5.5V	205	2.0	V	10%~30%	P	Pillar	
		EH	Hi-Temp E	6R3	6.3V	475	4.7	Z	-20%~80%	R	Radial Wire	
		MH	Hi-temp M	012	12V	106	10			S	Screw in	
		ML	Military	016	16V	206	20			T	Threaded	
		PL	Hybrid	024	24V	506	50			V	Vertical	
				036	36V	107	100			W	Weldable	
				048	48V	367	360					
				056	56V	407	400					
				075	75V	657	650					
				100	100V	158	1500					
				120	120V	308	3000					
				240	240V	508	5000					
						758	7500					
						958	9500					
						109	10000					
						129	12000					
						169	16000					
						609	60000					

**Storage:**

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- ✧ No storage in a condition with a relative humidity exceeding 85% or with toxic gases. It is easy to cause the damage and corrosion of the terminals and case, resulting in disconnection.
- ✧ For Long-term storage, place EDLC in a well-ventilated condition at -40°C to 70°C, with a relative humidity below 85%.

**Notice:**

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- ✧ Check the polarity of EDLC before power on. No reverse connecting.
- ✧ EDLC should be used at rated voltage.
- ✧ Working temperature of EDLC should not exceed the upper and lower limits of the rated temperature.
- ✧ Keep EDLC away from heat. The temperature has a big influence on the working life of EDLC.
- ✧ No direct contacting with water, oil, acid or alkaline.
- ✧ No crushing, nail penetrating or disassembling EDLC.
- ✧ No discarding. Dispose EDLC based on the State Environmental-protection Standard.

Please contact us when you meet any question with GTCAP ultra capacitor.