



SHANGHAI GREEN TECH CO., LTD.

PRODUCTS CATALOGUE



Add: No. 18 Taigu Rd Waigaoqiao Pudong Shanghai 200131, China

Tel: +86-021-61062239 Fax: +86-021-61062239-808

Mobile: +86-15800765605 Skype: greentech58 QQ: 361796650

Email: sales@greentechee.com

Http://www.greentechee.com



SUPER CAPACITORS

How to order: GTSP-2R7-308UW 1000PCS

<u>GT</u>	<u>S</u>	<u>□</u>	<u>□ □ □</u>	<u>□ □ □</u>	<u>□</u>	<u>□</u>	<u>□</u>
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%	H Horizontal	S=Standard
		E Energy	2R7 2.7V	224 0.22	K ±10%	V Vertical	C=Customized
		M Module	3R3 3.3V	474 0.47	M ±20%	C Coin	
		PH Hi-Temp P	5R0 5.0V	105 1	U -10%~20%	R Radial	
		EH Hi-Temp E	5R5 5.5V	205 2	V 10%~30%	T Threaded	
		MH Hi-temp M	6R3 6.3V	475 4.7	Z -20%~80%	N Snap In	
		PP Big Power	012 12V	106 10		W Weldable	
		ML Military	016 16V	206 20		P Pillar	
			024 24V	506 50		S Screw In	
			036 36V	107 100		L Wire	
			048 48V	367 360			
			056 56V	407 400			
			075 75V	657 650			
			100 100V	158 1500			
			120 120V	308 3000			
			240 240V	508 5000			
				728 7200			

Voltage: 2.7V and 3.0V

Cycle life: 500,000 duty times.

Operate temperature: - 40°C ~ +70°C(SP series) , - 40°C ~ +85°C (SPH series)



Application:

Automobile data recorder,digital camera, smart TV set,smart control device,instrument,electric toys and apparatus etc.

Part No.	Rated Voltage	Cap (F)	Max. ESR (Ω)		Max. DCL (mA)	Max. Continuous Current (A)	Max. Peak Current (A)	Max. Energy Storage (Wh)	Weight (g/pc)	Size	Lead Space P(mm)
	(V)		DC	AC/1KHz						(mm)	
GTSP-2R7-254ZR	2.7	0.25	N/A	700	0.005	0.08	0.32	0.00025	0.7	Φ5x12	2
GTSP-2R7-504ZR	2.7	0.5	N/A	700	0.005	0.16	0.4	0.00051	1	Φ6.3x12	2.5
GTSP-2R7-105ZR	2.7	1	N/A	350	0.008	0.27	0.63	0.00101	1.4	Φ8x13	3.5
GTSP-2R7-205ZR	2.7	2	N/A	300	0.01	0.43	1.38	0.00203	2.9	Φ8x20	3.5
GTSP-2R7-335ZR	2.7	3.3	N/A	120	0.02	0.9	2.12	0.00334	4.1	Φ10x20	5
GTSP-2R7-475ZR	2.7	4.7	N/A	100	0.025	1.02	2.77	0.00476	4.7	Φ12.5x21	5
GTSP-2R7-505ZR	2.7	5	N/A	90	0.03	1.1	2.89	0.0051	5	Φ12.5x21	5
GTSP-2R7-106ZR	2.7	10	N/A	40	0.03	2.45	9	0.0109	6	Φ12.5x26	5
GTSP-2R7-156ZR	2.7	15	N/A	30	0.04	2.75	11	0.015	7	Φ12.5x31/21	5
GTSP-2R7-206ZR	2.7	20	N/A	29	0.04	5.13	14.8	0.0218	8	Φ16x34/26	7.5
GTSP-2R7-256ZR	2.7	25	N/A	27	0.05	5.63	16.9	0.0245	8	Φ16x34	7.5
GTSP-2R7-306ZR	2.7	30	N/A	20	0.06	6.5	18.8	0.032	9.5	Φ16x34	7.5
GTSP-2R7-506ZR	2.7	50	N/A	20	0.75	10.4	27	0.054	12.2	Φ18x40	8
GTSP-2R7-107ZR	2.7	100	N/A	20	0.2	21.8	54	0.108	17.5	Φ18x45	8

Voltage: 2.7V and 3.0V

Cycle life: 500,000 duty times.

Operate temperature: - 40°C ~ +70°C(SP series) , - 40°C ~ +85°C (SPH series)

Application:

Medical equipment, UPS, printing machine, LED lighting, motor cold starting, wind powers system, elevator etc.



Part No.	Rated Voltage	Cap (F)	Max. ESR (Ω)		Max. DCL (mA)	Max. Continuous Current (A)	Max. Peak Current (65°C) 1S (A)	Max. Energy Storage (Wh)	Weight (g/pc)	Size (mm)	Lead Space P(mm)
	(V)		DC	AC/1KHz							
GTSP-2R7-107ZN	2.7	100	15	11	0.2	15	54	0.11	22	Φ22x45	10
GTSP-2R7-127ZN	2.7	120	15	11	0.2	16	56	0.13	22	Φ22x45	10
GTSP-2R7-157ZN	2.7	150	14	10	0.3	18	65	0.16	32	Φ25x50	10
GTSP-2R7-207ZN	2.7	200	14	10	0.65	21	72	0.22	52	Φ35x62	10
GTSP-2R7-227ZN	2.7	220	14	10	0.7	23	75	0.24	53	Φ35x62	10
GTSP-2R7-307ZN	2.7	300	14	10	0.7	25	75	0.33	64	Φ35x62	10
GTSP-2R7-407ZN	2.7	400	14	10	0.85	25	80	0.43	66	Φ35x62	10

1. Voltage: 2.7V
2. Cycle life 1,000,000 duty times.
3. Operate temperature: - 40°C ~ +70°C

Application:

Medical equipment, UPS, printing machine, LED lighting, motor cold starting, wind powers system, elevator etc.



Part No.	Rated Voltage	Cap (F)	Max. ESR (Ω)		Max. DCL (mA)	Max. Continuous Current (A)	Max. Peak Current (65°C) 1S (A)	Max. Energy Storage (Wh)	Weight (g/pc)	Size (mm)	Lead Space P(mm)
	(V)		DC	AC/1KHz							
GTSP-2R7-367US	2.7	360	3.1	2.8	0.5	34	230	0.36	77	Φ35x62	12.5
GTSP-2R7-407US	2.7	400	3	2.5	1.1	35	245	0.41	78	Φ35x62	12.5
GTSP-2R7-607US	2.7	600	3	2.5	1.5	40	289	0.61	118	Φ35x96	12.5
GTSP-2R7-357UP	2.7	350	2.5	1.5	0.5	39	252	0.35	72	Φ34x64	13x3
GTSP-2R7-457UP	2.7	450	2.5	1.5	0.9	43	285	0.46	90	Φ34x80	13x3
GTSP-2R7-507UP	2.7	500	2.5	1.5	1	43	300	0.51	90	Φ34x80	13x3
GTSP-2R7-607UP	2.7	600	2.4	1.4	1.2	47	332	0.61	116	Φ34x94	13x3
GTSP-2R7-727UP	2.7	720	1.8	1.3	1.4	59	423	0.73	125	Φ34x113	13x3
GTSP-2R7-807UP	2.7	800	1.8	1.3	1.6	59	443	0.81	125	Φ34x113	13x3

1. Voltage: 2.7V
2. Cycle life 1,000,000 duty times.
3. Operate temperature: - 40°C ~ +70°C

Application:

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



Part No.	Rated Voltage (V)	Cap (F)	Max. ESR (Ω)		Max. DCL (mA)	Max. Continuous Current (A)	Max. Peak Current (A)	Max. Energy Storage (Wh)	Weight (g/pc)	Size (mm)
			DC	AC/1KHz						
GTSP-2R7-657UW	2.7	650	0.8	0.7	1.8	87	577	0.66	213	Φ61x52
GTSP-2R7-128UW	2.7	1200	0.58	0.4	2.5	116	955	1.22	291	Φ61x74
GTSP-2R7-158UW	2.7	1500	0.47	0.33	3	135	1187	1.52	339	Φ61x85
GTSP-2R7-208UW	2.7	2000	0.35	0.25	3.5	168	1588	2.03	402	Φ61x102
GTSP-2R7-308UW	2.7	3000	0.29	0.22	5.2	208	2165	3.04	545	Φ61x138
GTSP-2R7-508UW	2.7	5000	0.28	0.21	13	250	2812	5.06	795	Φ61x204
GTSP-2R7-657UT	2.7	650	0.8	0.7	1.8	87	577	0.66	213	Φ61x52
GTSP-2R7-128UT	2.7	1200	0.58	0.4	2.5	116	955	1.22	291	Φ61x74
GTSP-2R7-158UT	2.7	1500	0.47	0.33	3	135	1187	1.52	339	Φ61x85
GTSP-2R7-208UT	2.7	2000	0.35	0.25	3.5	168	1588	2.03	402	Φ61x102
GTSP-2R7-308UT	2.7	3000	0.29	0.22	5.2	208	2165	3.04	545	Φ61x138
GTSP-2R7-508UT	2.7	5000	0.28	0.21	13	250	2812	5.06	795	Φ61x204

1. Operate temperature: $-25^{\circ}\text{C}\sim+70^{\circ}\text{C}$ (SE)
2. Voltage: 5.5V
3. Cycle life: 500,000 times
4. Small size. good performance in keeping voltage stable.
5. It can be the perfect back-up power supplier.

Application:

Smart meters,electric cooker,electric water heater, intelligent door lock,TV set,laptop, electronic toy,tetephone,camera,VCR,medical equipment etc.



Part No.	Voltage	Cap	ESR	Size			Lead Space
	(V/DC)	(F)	Max(Ω)	Φ Dxh(mm)			P(mm)
GTSE-5R5-104ZH/V/C	5.5	0.1	50	H:11x4.5	V:11x5	C: 13.5x6.5	H:10/V:5/C:5
GTSE-5R5-224ZH/V/C	5.5	0.22	40	H:11x4.5	V:11x5	C: 13.5x6.5	H:10/V:5/C:5
GTSE-5R5-334ZH/V/C	5.5	0.33	40	H:11x4.5	V:11x5	C: 13.5x6.5	H:10/V:5/C:5
GTSE-5R5-474ZH/V/C	5.5	0.47	20	H:11x4.5	V:11x5.5	C: 13.5x7.3	H:18.8/V:6/C:5
GTSE-5R5-105ZH/V/C	5.5	1.0	15	H:19x5.7	V:119x5	C: 20.5x7.5	H:18.8/V:6/C:5
GTSE-5R5-155ZH/V/C	5.5	1.5	10	H:19x5.7	V:119x5	C: 20.5x7.5	H:18.8/V:6/C:5
GTSE-5R5-205ZH/V/C	5.5	2.0	10	H:19x5.7	V:119x5.5	C: 20.5x7.7	H:20/V:6/C:5
GTSE-5R5-405ZH/V	5.5	4	12	H:24.8x6.6	V:24.8x6.6	N/A	H:25.6/V:6.5

1. Operate temperature: -25°C~+85°C(SEH)
2. Voltage: 3.6V
3. Cycle life: 500,000 times
4. Small size. good performance in keeping voltage stable.
5. It can be the perfect back-up power supplier.



Application:

Smart meters, electric cooker, electric water heater, intelligent door lock, TV set, laptop, electronic toy, telephone, camera, medical equipment, VCR etc.

Part No.	Voltage (V/DC)	Cap (F)	ESR Max(Ω)	Size			Lead Space
				Φ Dxh(mm)			P(mm)
GTSEH-3R6-104ZH/V/C	3.6	0.1	50	H:11x4.5	V:11x5	C: 13.5x6.5	H:10/V:5/C:5
GTSEH-3R6-224ZH/V/C	3.6	0.22	40	H:11x4.5	V:11x5	C: 13.5x6.5	H:10/V:5/C:5
GTSEH-3R6-334ZH/V/C	3.6	0.33	40	H:11x4.5	V:11x5	C: 13.5x6.5	H:10/V:5/C:5
GTSEH-3R6-474ZH/V/C	3.6	0.47	20	H:11x4.5	V:11x5.5	C: 13.5x7.3	H:18.8/V:6/C:5
GTSEH-3R6-105ZH/V/C	3.6	1.0	15	H:19x5.7	V:119x5	C: 20.5x7.5	H:18.8/V:6/C:5
GTSEH-3R6-155ZH/V/C	3.6	1.5	10	H:19x5.7	V:119x5	C: 20.5x7.5	H:18.8/V:6/C:5
GTSEH-3R6-205ZH/V/C	3.6	2.0	10	H:19x5.7	V:119x5.5	C: 20.5x7.7	H:20/V:6/C:5

1. Operate temperature: SM -40°C~+70°C SMH-25°C~+85°C
2. Voltage: SM 5.5V 7.5V SMH 5.0V
3. Cycle life: 1,000,000 times

Application:

Automobile data recorder,digital camera, smart TV set,smart control device, instrument,electric toys and apparatus etc. Medical equipment, UPS, printing machine,LED lighting, motor cold starting,wind powers system,elevator etc.



Part No.	Voltage (V/DC)	Cap (F)	ESR Max(Ω)	Size WxLxH(mm)	Lead Space P(mm)
GTSM-5R5-104UR	5.5	0.1	1.4	7x13x14	8
GTSM-5R5-224UR	5.5	0.22	1.2	7x13x14	8
GTSM-5R5-334VR	5.5	0.33	1.2	9x17x16	8
GTSM-5R5-474VR	5.5	0.47	1.2	9x17x16	8
GTSM-5R5-105VR	5.5	1	0.5	10x21x22	12
GTSM-5R5-155VR	5.5	1.5	0.5	10x21x22	12
GTSM-5R5-205VR	5.5	2	0.22	13x26x23	12
GTSM-7R5-334VR	7.5	0.33	1.8	9x25x16	13
GTSM-7R5-335UR	7.5	3.3	0.27	10.5x32x31	15

Feature:

Green Tech's super capacitor module provides energy storage and power delivery in a compact, cost-effective modules. The modules can charge-discharge fastly, all of these products will perform reliably for more than 1,000,000 times discharge-recharge cycles.

The modules can be series connected up to higher voltage or parallel connected for larger energy requirements.

The easy to connect, standard module allows system designers to focus upon use of the power and energy rather than how to assemble cells.

Application:

Engine start: Telecommunications equipment, Tank, Truck, Car cold start;

Energy recovery: Electric train, Hybrid bus, Elevator

Back up power: Construction equipment, UPS, Heavy duty transportation, Cranes, Mining equipment, Electronic bicycle

New energy resources: solar LED street light. wind turbine pitch control, Solar electronic bicycle, micro-grid.



Green Tech Standard Super Capacitor Modules:

Part No.	Cap	Voltage	Max.DCL after 72hrs	ESR (mΩ)		Peak Current (65°C), 1s	Max. Continuous Current (A)	Max. Energy Storage (Wh)	Weight (grams)	Size LxWxH (mm)
	(F)	(V/DC)	(mA)	AC/1KHz	DC	(A)				
GTSM-16V60FUS	60	15	0.3	18	22	213	34	1.81	1200	215x85x44
GTSM-16V120FUS	120	16	0.8	10	12	460	70	4.3	2000	301x88x87
GTSM-16V110FUB	110	16	1.5	5.0	5.6	568	65	3.9	3500	243x136x112
GTSM-16V100FUL	100	16	0.9	20	25	228	35	3.5	1420	154x140x100
GTSM-16V500FUS	500	16	5.2	1.35	1.8	2275	100	17.8	5700	416x67x178
GTSM-24V800FUS	800	24	8	2	3	3648	400	64	24000	450x196x245
GTSM-48V20FUS	20	48	0.5	60	65	230	34	0.36	4000	273x136x100
GTSM-48V165FUS	165	48	5.2	5	6	2275	100	52.8	14500	417x190x176
GTSM-50V30FUS	30	50	0.9	60	75	268	38	12	5000	200x230x115
GTSM-64V125FUS	125	64	5.2	6	6.5	2275	100	62.5	20000	417x254x179
GTSM-72V115FUS	115	72	7	7	12	2275	120	82.8	20000	472x256x191
GTSM-90V10FUS	10	90	0.5	120	140	205	34	11.25	7750	270x286x100



TANTALUM CAPACITORS

Green Tech makes series high reliability tantalum capacitors, include SMD type, dipped type, axial leads type. Solid and wet type, industrial and military standard. High temperature type, high energy hybrid type etc.

Application:

Communication equipment, radar, plane, ship, precision instrument, cell phone, computer, EMC, Mining equipment etc.



Part No.	Voltage Range (V/DC)	Capacitance Range(μF)	Shape	Case	Seal Type	Temperature	Type
CA45	4-50	0.1-1000	SMD	Epoxy Resin	Hermetic	-55°C~125°C	Solid
CA42	4-50	0.1-4700	Radial Wire	Epoxy Resin	Hermetic	-55°C~125°C	Solid
CA	6.3-100	0.047-1000	Axial Tubular	Metal	Hermetic	-55°C~125°C	Solid
CA411C	6.3-63	0.22-1000	Radial Cylindrical	Metal	Hermetic	-55°C~125°C	Solid
CA30	6.3-125	0.47-3300	Axial Tubular	Silver	Glass Sealed	-55°C~125°C	Wet
CA30M	6.3-125	0.47-3300	Axial Tubular	Silver	Glass Sealed	-55°C~125°C	Wet
CA301	6.3-125	0.47-4700	Axial Tubular	Silver	Glass Sealed	-55°C~125°C	Wet
CA30T	6.3-125	4.7-1000	Radial Cylindrical	Silver	Glass Sealed	-55°C~125°C	Wet
CA31	6.3-125	1.7-1200	Axial Tubular	Silver	Hermetic	-55°C~125°C	Wet
CA35	6.3-125	1-2200	Axial Tubular	Silver	Hermetic	-55°C~125°C	Wet

Application:

Oil down-hole-drilling equipment, Mining equipment, radar, tank, unmanned aircraft, Satellite, guided missile, precision instrument, EMC etc.



Part No.	Voltage Range(V/DC)	Capacitance Range(µF)	Shape	Case	Seal Type	Temperature	Type
CA501S	6.3-125	2.2-1200	Axial Tubular	Silver	Glass Sealed	-55°C~155°C	Wet
CA501	6.3-125	2.2-1200	Axial Tubular	Silver	Glass Sealed	-55°C~175°C	Wet
CA502	6.3-125	3.3-1000	Axial Tubular	Silver	Glass Sealed	-55°C~185°C	Wet
CA503	6.3-125	3.3-1000	Axial Tubular	Silver	Glass Sealed	-55°C~200°C	Wet
CA53	50-125	10-680	Axial Tubular	Silver	Hermetic	-55°C~200°C	Wet
CA53D	6-125	1.7-2200	Axial Tubular	Silver	Hermetic	-55°C~200°C	Wet
CA58A	6-125	2.5-2200	Axial Tubular	Tantalum	Hermetic	-55°C~200°C	Wet
CA58B	50-125	6-880	Axial Tubular	Tantalum	Hermetic	-55°C~200°C	Wet
CA386	10-125	110-27000	Radial Cylindrical	Tantalum	Laser Welding Hermetic	-55°C~200°C	Hybrid

Application:

Aerospace equipment, tank,unmanned aircraft, Satellite, guided missile,
Communication equipment,radar,plane,ship, precision instrument,EMC etc.



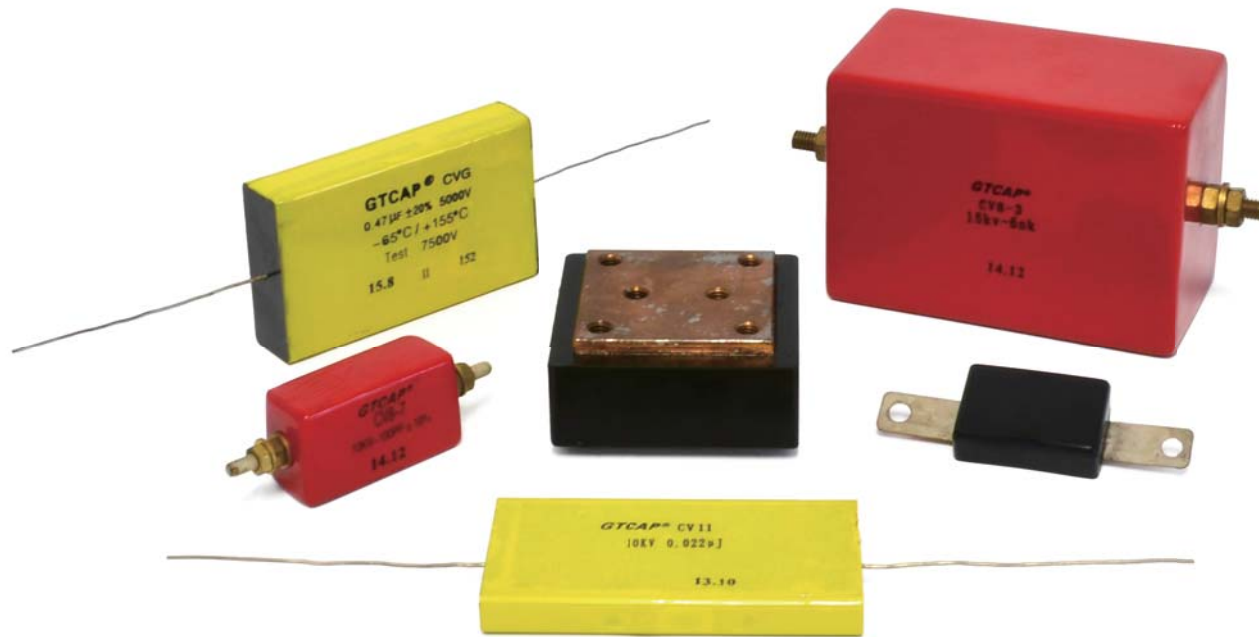
Part No.	Voltage Range (V/DC)	Capacitance Range(μF)	Shape	Case	Seal Type	Temperature	Type
CAK45	4-100	0.1-1000	SMD	Epoxy Resin	Hermetic	-55°C~125°C	Solid
CAK55	2-25	0.1-1000	SMD	Epoxy Resin	Hermetic	-55°C~125°C	Solid
CAK	6.3-63	0.1-470	Axial Tubular	Metal	Hermetic	-55°C~125°C	Solid
CAK-1	6-100	0.047-470	Axial Tubular	Metal	Hermetic	-55°C~125°C	Solid
CAK411C	6.3-63	0.22-1000	Radial Wire	Metal	Hermetic	-55°C~125°C	Solid
CAK35	6.3-125	1-2200	Axial Tubular	Silver	Hermetic	-55°C~125°C	Wet
CAK31	6.3-125	1.7-1200	Axial Tubular	Silver	Hermetic	-55°C~125°C	Wet
CAK86	16-125	4.7-680	Axial Tubular	Silver	Hermetic	-55°C~125°C	Wet
CAK81	6-125	6.8-2200	Axial Tubular	Silver	Hermetic	-55°C~125°C	Wet
CAK35T	6.3-125	4.7-1200	Radial Wire	Silver	Hermetic	-55°C~125°C	Wet
CAK38	6-125	1.7-1200	Axial Tubular	Tantalum	Hermetic	-55°C~125°C	Wet
CAK39	6-125	6.8-2200	Axial Tubular	Tantalum	Hermetic	-55°C~125°C	Wet
CAK39H	15-125	10-2200	Axial Tubular	Tantalum	Hermetic	-55°C~125°C	Wet
CAK39HE	10-150	100-10000	Axial Tubular	Tantalum	Hermetic	-55°C~125°C	Wet

Application:

Unmanned aircraft, Communication equipment, radar, plane, ship, tank,
Satellite, guided missile, precision instrument, cell phone, computer, EMC ect.



Part No.	Voltage Range (V/DC)	Capacitance Range(μF)	Shape	Case	Seal Type	Temperature	Screw Rod
THCL	10-125	100-2200	Radial Cylindrical	Tantalum	Laser Welding Hermetic	-55°C~125°C	None
THC1	10-125	160-50000	Radial Cylindrical	Tantalum	Laser Welding Hermetic	-55°C~125°C	None
THC2	10-125	1100-150000	Radial Cylindrical	Tantalum	Laser Welding Hermetic	-55°C~125°C	None
THC3	10-125	2200-230000	Radial Cylindrical	Tantalum	Laser Welding Hermetic	-55°C~125°C	None
THC1W	10-125	560-50000	Radial Cylindrical	Tantalum	Laser Welding Hermetic	-55°C~125°C	Yes
THC2W	10-125	1100-150000	Radial Cylindrical	Tantalum	Laser Welding Hermetic	-55°C~125°C	Yes
THC3W	10-125	2200-230000	Radial Cylindrical	Tantalum	Laser Welding Hermetic	-55°C~125°C	Yes
THC5S	10-125	360-200000	Radial Square	Tantalum	Laser Welding Hermetic	-55°C~125°C	None
THC5SW	10-125	360-200000	Radial Square	Tantalum	Laser Welding Hermetic	-55°C~125°C	Yes
THC6S	10-125	1400-220000	Radial Square	Tantalum	Laser Welding Hermetic	-55°C~125°C	None
THC6SW	10-125	1400-22000	Radial Square	Tantalum	Laser Welding Hermetic	-55°C~125°C	Yes
THCM	300-500	90-4700	customizable	customizable	Laser Welding Hermetic	-55°C~125°C	Yes



HI-VOLTAGE, HI-TEMPERATURE CAPACITOR

GTCAP mica paper capacitors are suitable to high frequency, high voltage, high temperature, big current circuit.

Like high frequency feedback circuit, high frequency resonance circuit and pulse circuit etc.

GTCAP Mica Capacitors are using the best mica paper 511 as material, dipping high temperature epoxy resin.

High insulated resistance, low coefficient.

Good high frequency performance.

Very low dissipation factor $<5 \times 10^{-3}$ (min 1×10^{-4}).

Very stable at high temperature, small capacitance tolerance.

After storage 15years, capacitance change not over $\pm 1\%$.

Application:

Widely use in satellite, aerospace, ship, medical equipment, oil down-hole-drilling equipment, welding machine, metallurgy equipment etc.

Part Item	Voltage Range(DC)	Capacitance(μ F)	Working Frequency	Current(A)	Temperature	Main Application
GTCVG	0.15KV-30KV	0.01-10	Pulse	Pulse	-55°C~200°C	Oil down-hole drilling equipment
GTCV8	2KV-30KV	0.01-10	0.3-1MHz	5-50	-55°C~85°C	Welding machine
GTCV11	1KV-30KV	1.0-8.0	0.3-1MHz	5	-55°C~125°C	Cathode bypass, high voltage equipment
GTCYG	1KV	0.01-0.1	800KHz	200	-10°C~85°C	Welding Machine