

上海绿态电子科技有限公司

SHANGHAI GREEN TECH CO.,LTD.

GT SPL 产品规格书

❖ 产品特点 Features

圆柱外形结构，能量密度高；
Cylindrical radial leads, high energy density.
符合 ROHS 标准，无 Cd、Pb 等污染物质；
RoHS compliant, Cd, Pb free.
充放电循环寿命长：≥500,000 次
Long cycle life ≥500,000 times
高能量，适合作为备用电源。
High energy, suit for back up power supplier.



❖ 应用 applications

可用于智能电表、燃气表、水表、热量表断电关阀的数据保存，抄表系统等。

Widely use in smart electric meters, gas meters, water meters, energy meters for back up power to record the data and remote meters reading and so on.

❖ 型号命名规则 Part Number System

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					

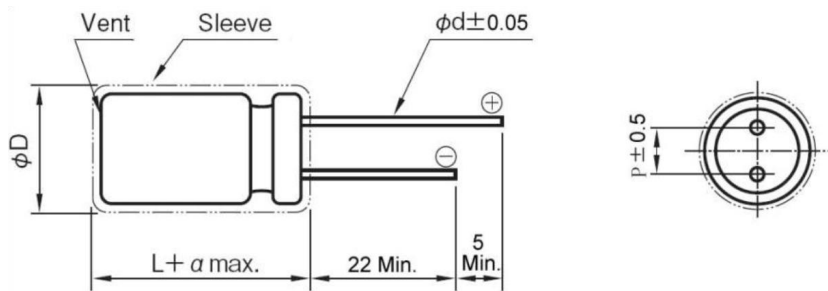
❖ 产品性能 specifications

No.	产品型号 Part Number	GTSP-3R8-106MR
1	额定电压 Rated Voltage	3.8V
2	最低工作电压 Min. Operating Voltage	2.5V
3	浪涌电压 Surge Voltage	4.2V
4	标称容量 Rated Capacitance	10F
5	容量允许公差 Capacitance Tolerance	±20%
6	最大交流内阻 Max. ESR/AC @1KHz	400mΩ
7	最大直流内阻 Max. ESR/DC	800mΩ
8	额定充电电流 Rated Charge-discharge Current	0.075A
9	最大充电电流 Max.Charge-discharge Current<5s	0.5A
10	自放电电流 3 个月 Self-discharge 3 months	≤ 0.65μA
11	最大漏电流 Max. Leakage Current 72hrs	≤ 2 μA
12	工作温度 Operating Temperature	-40°C~+65°C
13	推荐存储温度 Recommend Storage Temperature	10°C~+55°C
14	循环寿命 Cycle Life	>500,000 times
15	重量 Weight	0.8g

❖ **环境特性 Environmental Characteristics**

No.	项目/Items	规格条件/Characteristics
1	温度特性 Temperature characteristics	+70°C, $\Delta C/C$ $\leq 10\%$ 初始值 of the initial value, ESR _{AC} \leq 规定值 specified value (25°C) -40°C, $\Delta C/C$ $\leq 50\%$ 初始值 of the initial value, ESR _{AC} ≤ 10 倍规定值 times of specified value (25°C)
2	高温负载特性 High temperature loaded	+85°C ± 2 , 额定电压下, 1000 小时后 at rated voltage, after 1000hrs, $\Delta C/C$ $\leq 30\%$ 初始值 of the initial value, ESR _{AC} ≤ 2 倍规定值 times of specified value (25°C)
3	高温存储特性 High temperature storage	+85°C, 高温存储 1000 小时, 容量变化在初始值的 30% 以内 Store at +85°C, after 1000hrs, $\Delta C/C$ $\leq 30\%$ of the initial value, ESR _{AC} ≤ 2 倍规定值 times of specified value (25°C)
4	稳态湿热 Humidity resistance	+40°C, 90~95%RH 高温高湿存储 240hrs, 容量变化小于初始值的 30%, +40°C, 90~95%RH, keep 240hrs, $\Delta C/C$ $\leq 30\%$ of the initial value ESR _{AC} ≤ 2 倍规定值 times of specified value (25°C)

❖ **标准产品外形尺寸图 shape of standard product**



Part Number	$\Phi D \pm 0.5$ (mm)	$L \pm 1.5$ (mm)	$p \pm 0.5$ mm	$\Phi d \pm 0.05$ (mm)
GTSP-3R8-106MR	6	13	2.5	0.6