

HG series High Voltage/High Reliability



Features (特点)

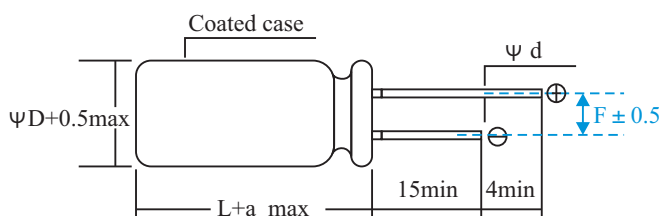
- ★ High voltage and high reliability, Large permissible ripple current (高压电高可靠性，允许大纹波电流).
- ★ Low ESR at high frequency range (在高频范围内的低ESR).
- ★ Applicable to the power circuit and industrial electronic equipment (such as: military products, high-end industrial power, LED lighting drive power supply), can satisfy lead-free soldering conditions.
适用于电源电路及工业电子设备（如：军工产品、高端工业电源、LED照明驱动电源等），可萍踪无铅焊锡条件。

Specifications (产品规格)

item 项目	Performance Characteristics 性能、特点	
Operating Temperature Range 工作温度范围	-55~+105℃	
Rated Voltage Range 额定电压范围	35~50vdc	
Capacitance Tolerance(容量公差)	± 20%(120Hz,+20℃)	
Leakage Current(+20℃,max) 漏电流	≤0.2CV(uA,after 2 minutes) 充电2分钟后漏电≤0.2cv	
Dissipation Factor(损耗系数) (tanδ,at 20℃,120Hz)	Not to exceed the value specified 不超过指定值	
ESR(100KHz)	Not to exceed the value specified 不超过指定值	
Endurance(耐久性) 105℃,2000h,at rated voltage 105℃, 2000h, 不超过额定电压	Capacitance Change	Within ± 20% of the value before test 测试前的值的±20%以内
	Leakage Current	Not to exceed the value specified 不超过指定值
	ESR	Not to exceed 150% of the value specified 不超过指定值的150%
	Dissipation Factor	Not to exceed 150% of the value specified 不超过指定值的150%
Moisture Resistance(耐湿性) Stored at 60℃,RH90~95%,2000h 存放在60℃, RH90~95%, 2000h	Capacitance Change	Within ± 20% of the value before test 测试前的值的±20%以内
	Leakage Current	Not to exceed the value specified 不超过指定值
	ESR	Not to exceed 150% of the value specified 不超过指定值的150%
	Dissipation Factor	Not to exceed 150% of the value specified 不超过指定值的150%

Frequency Coefficient for Ripple Current (纹波电流的频率系数)

Frequency	120Hz≤freq.<1KHz	1KHz≤freq.<10KHz	10KHz≤freq.<100KHz	100KHz≤freq.<300KHz
Coefficient	0.05	0.3	0.7	1



mm				
φ DXL	φ D+0.5max	a	F±0.5	φ d±0.05
6.3×8	6.3	1.0	2.5	0.6
8×8	8.0	1.0	3.5	0.6
8×11.5	8.0	1.5	3.5	0.6
10×12.0	10	1.5	5.0	0.6

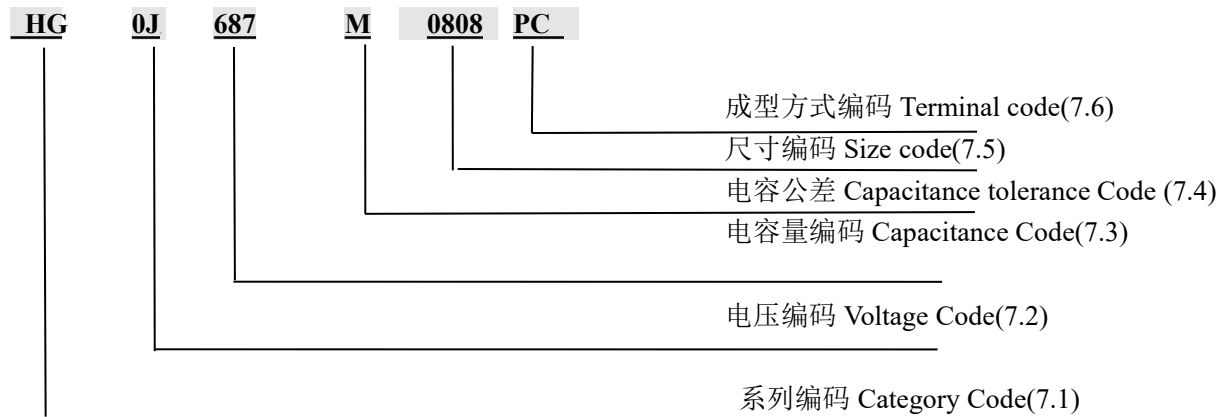
Dimensions & Characteristics (尺寸及特性)

Ripple Current(mA,rms) at 105°C,100KHz

W.V (V)	Capacitance (μ F)	LC. (μ A,2min)	tg δ (120Hz,20°C)	ESR ($m\Omega$,100KHz)	Maximun Permissible Current(mA,rms)	Size ϕ DXL(mm)
35	10	70	0.12	45	2000	6.3×8
	15	105	0.12	45	2000	6.3×8
	22	154	0.12	45	2600	6.3×8
				35	2600	8×8
	33	231	0.12	35	2600	8×8
	39	273	0.12	35	2600	8×8
				30	2980	8×11.5
	47	329	0.12	35	2600	8×8
				30	2980	8×11.5
	56	392	0.12	30	2980	8×11.5
				28	3800	10×12.0
	68	476	0.12	30	2980	8×11.5
				28	3800	10×12.0
	82	574	0.12	30	2980	8×11.5
				28	3800	10×12.0
100	700	0.12	30	2980	8×11.5	
			28	3800	10×12.0	
220	1540	0.12	28	3800	10×12.0	
330	2310	0.12	28	3800	10×12.0	
470	3290	0.12	28	3800	10×12.0	
50	10	100	0.12	45	2000	6.3×8
	15	150	0.12	45	2000	6.3×8
	22	220	0.12	45	2600	8×8
	33	330	0.12	45	2600 / 2700	8×8 / 8×11.5
	39	390	0.12	45	2700 / 2900	8×11.5 / 10×12.0
	47	470	0.12	45	2900	10×12.0
	56	560	0.12	45	2900	10×12.0
	82	820	0.12	45	2900	10×12.0

物料编码表

1.物料编码 PART No. SYSTEM



1.1 系列编码 Series Code

编码 Code	HG
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1.2 电压编码 Voltage Code

编码 Code	0E	0G	0J	0Q	1A	1C	1E	1V	1H
电压编码 VoltageCode(W.V)	2.5	4	6.3	7.5	10	16	25	35	50

1.3 电容公差 Capacitance tolerance

“M”代表-20%~+20% “M” stands for -20%~+20%

1.4 电容量编码 Capacitance Code

编码 Code	476	107	277	337	477	567	687	827	108
电容量 Capacitance (uF)	47	100	270	330	470	560	680	820	1000

1.5 尺寸编码 Size Code

编码 Code	0507	0508	0509	0511	0607	0608	0609	0610	0611	0615	0808	0809	0811	0816	1010	1012	1212
直径 D (Φ)	5	5	5	5	6.3	6.3	6.3	6.3	6.3	6.3	8	8	8	8	10	10	12
高度 H (mm)	7	8	9	11	7	8	9	10	11.5	15	8	9	11.5	16	10	12.5	12.5

1.6 成型方式编码 Terminal Code

编码 Code	PC	PJ	PB	PZ
其他 Other	平豆散装 Platform rubber& In bulk	平豆剪脚 Platform rubber &Lead Cut3.5±0.3mm	平豆编带 Platform rubber& Taping Pitch=2.5mm	座板 Right lying Bending2.0±0.5mm