



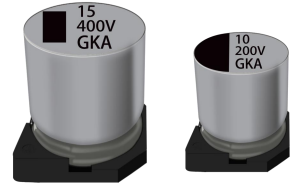
铝电解电容器

Aluminum Electrolytic Capacitor

VTG Series 片式铝电解电容器中高压产品

High voltage Alumm Electinuorlytic Capacitor of V-chip Type

- 体积小, 容量大 105°C 3000~5000 hours
- 性能稳定, 可靠性高, 高纹波电流
- Small size, Large capacity 105°C 3000~5000 hours
- High stability and reliability with high ripple current



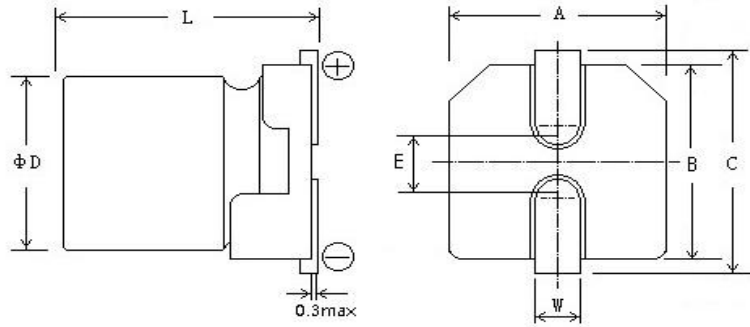
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■ 主要技术性能 Specifications

项目 Items	主要特性 Performance Characteristics					
使用温度范围 Operating Temperature Range	-40~+105°C					
额定电压范围 Rated Voltage Range	160~450V.DC					
标称电容量允许偏差 Capacitance Tolerance	±20%(120Hz, 20°C)					
漏电流 Leakage Rurrent	$I \leq 0.04CV + 100 (\mu A)$ 或 $3 \mu A$ 取较大者, (2 分钟) $I \leq 0.04 CV + 100 (\mu A)$ or $3 \mu A$ Whichever is greater (after 2 minutes)					
	I=Leakage Current(μA), C=Capacitance(μF), V=Rated DC Working Voltage(V)					
损耗角正切值 Dissipation Factor (120Hz 20°C)	WV	160V	200V	250V	400V	450V
	tg δ	0.20	0.20	0.20	0.22	0.22
温度特性 (120Hz) Temperature Characteristics Impedance Ratio (120Hz)	WV	160V	200V	250V	400V	450V
	$Z_{-25^{\circ}C} / Z_{+20^{\circ}C}$	3	4	4	6	6
耐久性 Load Life (105°C,3000 hrs)	+105°C施加额定电压 3000 小时 (D≤10mm) 或 5000 小时 (D≥12.5mm), 恢复 16 小时后, 电容器应满足要求 At +105°C, with applying rated voltage for 3000 hours (D≤10mm) and for 5000 hours (D≥12.5mm), then resumed 16 hours, the capacitor shall meet the requirement.					
	电容量变化率 Capacitance Change	≤ ±30%初始测量值 ≤ ±30% of Initial measured value				
	漏电流值 Leakage	≤ 初始规定值 ≤ Initial specified value				
	损耗角正切值 Dissipation Factor	≤ 3 倍初始规定值 ≤ 300% of Initial specified value				
高温贮存 Shelf Life (105°C)	试验时间: 1000 小时, 其他项目与耐久性相同。电压应用处理: 根据 JIS C5101-4 4.1 Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4 4.1					
额定纹波电流频率系数 Coefficient of Frequency for Rated Ripple Current	Frequency 频率	50Hz	120Hz	1KHz	≥10KHz	
	Correction factor 修正系数	0.80	1.00	1.40	1.60	

外形图 Outline Drawing



单位 Unit : mm

Size	φ8×10.5	φ10×10.5	φ10×12.5	φ12.5×13.5	φ12.5×16	φ16×16.5	φ18×16.5
A±0.2	8.3	10.3	10.3	13.0	13.0	17	19
B±0.2	8.3	10.3	10.3	13.0	13.0	17	19
E	3.1	4.5	4.5	5.2	5.2	6.5	6.5
L±0.5	10.5	10.5	12.5	13.5	16	16.5	16.5
C±0.3	9.0	11.0	11.0	13.8	13.8	18	20
W	0.8~1.1			1.1~1.4			

标称电容量、额定电压、额定纹波电流及外形尺寸对应表

Nominal capacitance, rated voltage, rated ripple current and case size table

WV Cap(μF)	160V		200V		250V		400V		450V	
	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)	ΦD×L (mm)	I (mA)
2.2							8×10.5	25	8×10.5	20
3.3							8×10.5	30	8×10.5	20
4.7							8×10.5 10×10.5	35 40	10×10.5 10×12.5	40 43
6.8							10×10.5	40	10×12.5 12.5×13.5	43 50
8.2					8×10.5	35	10×12.5 12.5×13.5	43 50	12.5×13.5	55
10	8×10.5	50	8×10.5 10×10.5	50 57	10×10.5 12.5×13.5	55 70	10×12.5 12.5×13.5	45 53	12.5×13.5 12.5×16	70 75
15	8×10.5	50	10×12.5	61	10×10.5	55	12.5×13.5 12.5×16	70 72	12.5×13.5 16×16.5	66 85
22	10×10.5	65	10×10.2 10×12.5 12.5×13.5	65 70 84	10×12.5 12.5×13.5 12.5×16	82 98 105	16×16.5	85	16×16.5 18×16.5	85 100
33	10×12.5 12.5×13.5	70 95	10×12.5 12.5×13.5 12.5×16	144 169 185	16×16.5	220	18×16.5	100	18×16.5	100
47	12.5×16	105	16×16.5	215	18×16.5	240				
56	16×16.5	260								
68	16×16.5	295	18×16.5	230						
100	18×16.5	365								

I~额定纹波电流 Rated ripple current: (mA, 105°C, 120Hz)