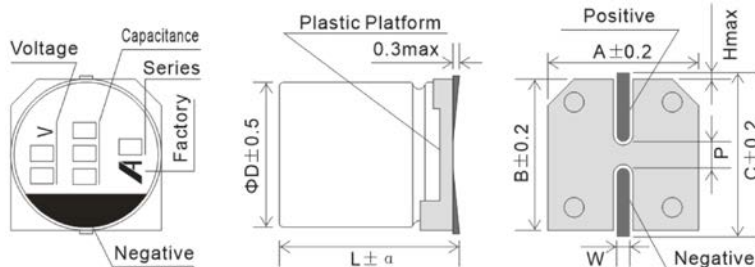


■ Description 产品描述:

Al-Ecap, 47uF, 100v, ±20%, Low ESR, D10H10.5mm, 3000Hrs@105°C, -55~+105°C, SMD.

■ Dimension & Marking 印刷及尺寸:

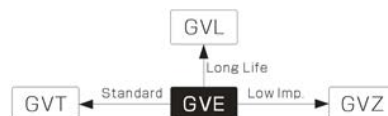


Items	A	B	C	D	P	L	α	W	H
Case $\phi 10 \times 10.5$	10.3	10.3	11	10.0	4.7	10.5	± 0.5	0.8~1.1	0.5max.

■ Features 特长/用途:

- 105°C, 3,000 hours assured 宽温长寿命
- Low impedance Capacitors 高频低阻抗
- Designed for surface mounting on high density PC board 适合高密度表面安装

■ Serie Expansion 系列拓展



Items 项目	Performance 性能				
Rated Voltage 额定电压(V_R)	100 V				
Capacitance 额定容量(C_R)	47 uF (120Hz, 20°C)				
Category Temperature Range 类别温度范围	-55°C ~ +105°C				
Capacitance Tolerance 容量误差	-20% ~ +20% (120Hz, 20°C)				
Surge Voltage 浪涌电压(V_S)	115 V _{DC}				
Leakage Current 泄漏电流(I_{LC})	$I_{LC} \leq 47 \mu A$ After 2 minutes				
Dissipation Factor ($\tan\delta$) 损失角正切值	≤ 0.08 (120Hz, 20°C)				
Impedance 阻抗 (Z, Ω)	≤ 0.8 (100kHz, 20°C)				
Ripple Current 纹波电流($I_{RC, rms}$)	170 mA (100kHz, 105°C)				
Low Temperature Characteristics 温度特性(120Hz)	Impedance ratio 阻抗比(Max.)	$Z_{(-25^\circ C)} / Z_{(+20^\circ C)}$	2		
		$Z_{(-55^\circ C)} / Z_{(+20^\circ C)}$	3		
Endurance and Shelf Life 耐久性 & 高温无负荷特性	Items 项目	Endurance 耐久性		Shelf Life Test 高温无负荷	
	Test Time 测试时长	3,000 Hrs at 105°C; V_R		1,000 Hrs at 105°C	
	Cap. Change 容量变化率	Within $\pm 20\%$ of initial Value \leq 初始值的 $\pm 20\%$		Within $\pm 20\%$ of initial Value \leq 初始值的 $\pm 20\%$	
	$\tan\delta$ 损失角正切值	Less than 200% of specified Value \leq 初始规格值的 $\pm 200\%$		Less than 200% of specified Value \leq 初始规格值的 $\pm 200\%$	
	Leakage Current 漏电流	Whitin specified Value \leq 初始规格值		Whitin specified Value \leq 初始规格值	
Ripple Current and Frequency Multipliers 纹波电流频率系数	Frequency (Hz)	120	1k	10k	100k
	Multiplier	0.50	0.70	0.90	1.00
Standards 参考标准	JIS C 5101-1, -18, IEC 60384-4				
Remarks 附注	RoHS Compliance, Halogen-free				

* Please refer to "Precautions and Guidelines for Aluminum Electrolytic Capacitors" section in catalog for further details 详细信息请参阅目录中的“铝电解电容器注意事项和指南”

Publication Date

发行日期

2022-02-15

Approved

批准

Checked

复核

Designed

设计

Revision Date
修订日期

Version No.

1.0

Lei Yang

Chao Yu

Dimension and Permissible Ripple Current 尺寸及纹波电流速查表:

WV uF	6.3v(0J)			10v(1A)			16v(1C)			25v(1E)			35v(1V)			50v(1H)		
	$\phi D \times L$	Imp.	R.C.	$\phi D \times L$	Imp.	R.C.	$\phi D \times L$	Imp.	R.C.	$\phi D \times L$	Imp.	R.C.	$\phi D \times L$	Imp.	R.C.	$\phi D \times L$	Imp.	R.C.
1																4x5.7	5.0	30
1.5																4x5.7	5.0	30
2.2																4x5.7	5.0	30
3.3													4x5.7	3.0	60	4x5.7	5.0	30
													5x5.7	3.0	50	5x5.7	3.0	50
4.7													4x5.7	3.0	60	4x5.7	5.0	30
													5x5.7	3.0	50	5x5.7	3.0	50
10										4x5.7	3.0	60	4x5.7	3.0	60	5x5.7	3.0	50
										5x5.7	1.8	95	5x5.7	1.8	95	6.3x5.7	2.0	70
15							4x5.7	3.0	60	4x5.7	3.0	60	5x5.7	1.8	95	6.3x5.7	2.0	70
							5x5.7	1.8	95	5x5.7	1.8	95	5x5.7	1.8	95	6.3x5.7	2.0	70
22				4x5.7	3.0	60	4x5.7	3.0	60	4x5.7	3.0	60	5x5.7	1.8	95	6.3x5.7	2.0	70
				5x5.7	1.8	95	5x5.7	1.8	95	5x5.7	1.8	95	5x5.7	1.8	95	6.3x5.7	2.0	70
33				4x5.7	3.0	60	4x5.7	3.0	60	4x5.7	3.0	60	5x5.7	1.8	95	6.3x5.7	2.0	70
				5x5.7	1.8	95	5x5.7	1.8	95	5x5.7	1.8	95	6.3x5.7	1.0	140	6.3x7.7	1.0	120
47	4x5.7	3.0	60	4x5.7	3.0	60	5x5.7	1.8	95	5x5.7	1.8	95	5x5.7	1.8	95	6.3x5.7	1.0	140
				5x5.7	1.8	95	6.3x5.7	1.0	140	6.3x5.7	1.0	140	6.3x5.7	1.0	140	6.3x5.7	1.0	140
56	5x5.7	1.8	95	4x5.7	3.0	60	5x5.7	1.8	95	6.3x5.7	1.0	140	6.3x5.7	1.0	140	6.3x5.7	1.0	140
				5x5.7	1.8	95	6.3x5.7	1.0	140	6.3x5.7	1.0	140	6.3x5.7	1.0	140	6.3x5.7	1.0	140
68	5x5.7	1.8	95	5x5.7	1.8	95	5x5.7	1.8	95	6.3x5.7	1.0	140	6.3x5.7	1.0	140	6.3x7.7	0.6	230
				6.3x5.7	1.0	140	6.3x5.7	1.0	140	6.3x5.7	1.0	140	6.3x7.7	0.6	230	8x10.5	0.6	300
100	5x5.7	1.8	95	5x5.7	1.8	95	6.3x5.7	1.0	140	6.3x5.7	1.0	140	6.3x7.7	0.6	230	8x10.5	0.6	300
				6.3x5.7	1.0	140	6.3x7.7	0.6	230	6.3x7.7	0.6	230	6.3x7.7	0.6	230	10x10.5	0.3	500
150	5x5.7	1.8	95	6.3x5.7	1.0	140	6.3x5.7	1.0	140	6.3x7.7	0.6	230	6.3x7.7	0.6	230	8x10.5	0.3	450
	6.3x5.7	1.0	140	6.3x5.7	1.0	140	6.3x7.7	0.6	230	8x10.5	0.3	450	8x10.5	0.3	450	10x10.5	0.3	500
220	6.3x5.7	1.0	140	6.3x5.7	1.0	140	6.3x7.7	0.6	230	8x10.5	0.3	450	10x10.5	0.15	670	10x10.5	0.15	670
	6.3x7.7	0.6	230	6.3x7.7	0.6	230	6.3x7.7	0.6	230	8x10.5	0.3	450	10x10.5	0.15	670	10x12.5	0.16	580
330	6.3x5.7	1.0	140	6.3x7.7	0.6	230	6.3x7.7	0.6	230	8x10.5	0.3	450	10x10.5	0.15	670			
	6.3x7.7	0.6	230	6.3x7.7	0.6	230	8x10.5	0.3	450	10x10.5	0.15	670	10x10.5	0.15	670			
470	6.3x7.7	0.6	230	6.3x7.7	0.6	230	8x10.5	0.3	450	10x10.5	0.15	670	10x10.5	0.15	670			
	8x10.5	0.3	450	8x10.5	0.3	450	8x10.5	0.3	450	10x12.5	0.08	800	10x12.5	0.08	800			
680	8x10.5	0.3	450	8x10.5	0.3	450	8x10.5	0.3	450									
				10x10.5	0.15	670	10x10.5	0.15	670									
1000	8x10.5	0.3	450	8x10.5	0.3	450	10x10.5	0.15	670									
				10x10.5	0.15	670												
1500	8x10.5	0.3	450															
	10x10.5	0.15	670															

WV uF	63v(1J)			80v(1K)			100v(2A)		
	$\phi D \times L$	Imp.	R.C.	$\phi D \times L$	Imp.	R.C.	$\phi D \times L$	Imp.	R.C.
4.7	5x5.7	3.0	50						
10	5x5.7	3.0	50	6.3x5.7	3.0	40			
	6.3x5.7	1.5	80	6.3x7.7	2.4	60	6.3x7.7	2.4	60
22	6.3x5.7	1.5	80	6.3x7.7	2.4	60	8x10.5	1.5	110
	6.3x7.7	1.2	120	8x10.5	1.5	110	8x10.5	1.5	110
33	6.3x7.7	1.2	120	8x10.5	1.5	110	10x10.5	0.8	170
	8x10.5	0.7	250						
47	8x10.5	0.65	250	8x10.5	1.5	110	10x10.5	0.8	170
56	8x10.5	0.65	250	8x10.5	1.5	110	10x10.5	0.8	170
68	8x10.5	0.65	250	10x10.5	0.8	170	10x10.5	0.8	170
82	8x10.5	0.65	250	10x10.5	0.8	170			
	10x10.5	0.35	400						
100	10x10.5	0.35	400	10x10.5	0.8	170			
150	10x10.5	0.35	400						

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