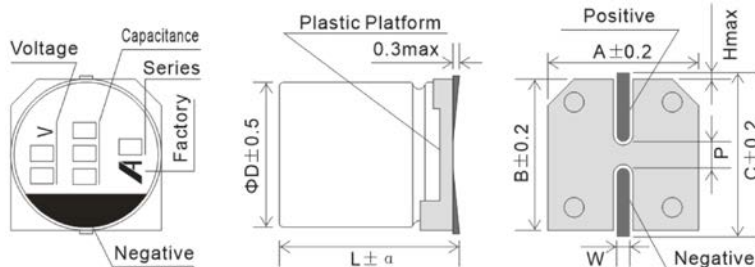


■ Description 产品描述:

Al-Ecap, 680uF, 16v, ±20%, Extra low ESR, D10H10.5mm, 3000Hrs@105°C, -55~+105°C, SMD.

■ Dimension & Marking 印刷及尺寸:

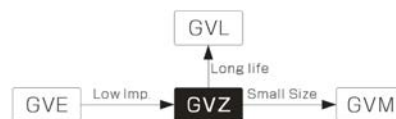


Items	A	B	C	D	P	L	α	W	H
Case $\phi 10 \times 10.5$	10.3	10.3	11	10.0	4.7	10.5	± 0.5	0.8~1.1	0.5max.

■ Features 特长/用途:

- 105°C, Long life 宽温长寿命
- Extra low impedance capacitors 极低阻抗
- 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)	16 V				
Capacitance 额定容量(C_R)	680 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)	18.4 V _{DC}				
Leakage Current 泄漏电流(I_{LC})	$I_{LC} \leq 108.8 \mu A$ After 2 minutes				
Dissipation Factor ($\tan \delta$) 损失角正切值	≤ 0.16 (120Hz, 20°C)				
Impedance 阻抗 (Z, Ω)	≤ 0.09 (100kHz, 20°C)				
Ripple Current 纹波电流($I_{RC, rms}$)	820 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		
		$Z_{(-55^\circ C)} / Z_{(+20^\circ C)}$	4		
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	0.65	0.85	0.95	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

Lei Yang

Chao Yu

Version No.

1.0

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

uF \ WV	6.3v(0J)			10v(1A)			16v(1C)			25v(1E)			35v(1V)			50v(1H)		
	ϕ DxL	Imp.	R.C.	ϕ DxL	Imp.	R.C.	ϕ DxL	Imp.	R.C.	ϕ DxL	Imp.	R.C.	ϕ DxL	Imp.	R.C.	ϕ DxL	Imp.	R.C.
1																4x5.7	2.9	60
1.5																4x5.7	2.9	60
2.2																4x5.7	2.9	60
3.3													4x5.7	1.8	80	4x5.7	2.9	60
													5x5.7	1.52	85	5x5.7	1.52	85
4.7													4x5.7	1.8	80	4x5.7	2.9	60
													5x5.7	1.52	85	5x5.7	1.52	85
10										4x5.7	1.8	80	4x5.7	1.8	80	5x5.7	1.52	85
										5x5.7	0.76	150	5x5.7	0.76	150	6.3x5.7	0.88	165
15							4x5.7	1.8	80	4x5.7	1.8	80	4x5.7	1.8	80	5x5.7	0.76	150
							5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	6.3x5.7	0.88	165
22				4x5.7	1.8	80	4x5.7	1.8	80	4x5.7	1.8	80	4x5.7	1.8	80	5x5.7	0.76	150
				5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	6.3x5.7	0.88	165
33				4x5.7	1.8	80	4x5.7	1.8	80	4x5.7	1.8	80	4x5.7	1.8	80	5x5.7	0.76	150
				5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	6.3x5.7	0.44	230
47	4x5.7	1.8	80	4x5.7	1.8	80	4x5.7	1.8	80	4x5.7	1.8	80	4x5.7	1.8	80	5x5.7	0.76	150
				5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	6.3x5.7	0.44	230
56	5x5.7	0.76	150	4x5.7	1.8	80	4x5.7	1.8	80	4x5.7	1.8	80	4x5.7	1.8	80	5x5.7	0.76	150
				5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	6.3x5.7	0.44	230
68	5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	6.3x5.7	0.44	230
							6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230
100	5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	5x5.7	0.76	150	6.3x5.7	0.44	230
				6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230
150	5x5.7	0.76	150	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230
	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230
220	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230	6.3x5.7	0.44	230
				6.3x7.7	0.34	280	6.3x7.7	0.34	280	6.3x7.7	0.34	280	6.3x7.7	0.34	280	6.3x7.7	0.34	280
330	6.3x5.7	0.44	230	6.3x7.7	0.34	280	6.3x7.7	0.34	280	6.3x7.7	0.34	280	6.3x7.7	0.34	280	6.3x7.7	0.34	280
	6.3x7.7	0.34	280	6.3x7.7	0.34	280	6.3x7.7	0.34	280	6.3x7.7	0.34	280	6.3x7.7	0.34	280	6.3x7.7	0.34	280
470	6.3x7.7	0.34	280	6.3x7.7	0.34	280	6.3x7.7	0.34	280	6.3x7.7	0.34	280	6.3x7.7	0.34	280	6.3x7.7	0.34	280
				8x10.5	0.17	600	8x10.5	0.17	600	8x10.5	0.17	600	8x10.5	0.17	600	8x10.5	0.17	600
680	8x10.5	0.17	600	8x10.5	0.17	600	8x10.5	0.17	600	8x10.5	0.17	600	8x10.5	0.17	600	8x10.5	0.17	600
							10x10.5	0.09	820	10x10.5	0.09	820	10x10.5	0.09	820	10x10.5	0.09	820
1000	8x10.5	0.17	600	8x10.5	0.17	600	8x10.5	0.17	600	8x10.5	0.17	600	8x10.5	0.17	600	8x10.5	0.17	600
				10x10.5	0.09	820	10x10.5	0.09	820	10x10.5	0.09	820	10x10.5	0.09	820	10x10.5	0.09	820
1500	8x10.5	0.17	600															
	10x10.5	0.09	820															

uF \ WV	63v(1J)			80v(1K)			100v(2A)		
	ϕ DxL	Imp.	R.C.	ϕ DxL	Imp.	R.C.	ϕ DxL	Imp.	R.C.
4.7	5x5.7	1.9	70						
10	5x5.7	1.9	70	6.3x5.7	2.4	65			
	6.3x5.7	1.2	130	6.3x7.7	1.8	75	6.3x7.7	1.8	75
22	6.3x5.7	1.2	130	6.3x7.7	1.8	75			
	6.3x7.7	0.9	150	8x10.5	1.3	130	8x10.5	1.3	130
33	6.3x7.7	0.9	150				8x10.5	1.3	130
	8x10.5	0.5	280	8x10.5	1.3	130	10x10.5	0.7	200
47	8x10.5	0.50	280	8x10.5	1.3	130	10x10.5	0.7	200
56	8x10.5	0.50	280	8x10.5	1.3	130	10x10.5	0.7	200
68	8x10.5	0.50	280	10x10.5	0.7	200	10x10.5	0.7	200
82	8x10.5	0.50	280						
	10x10.5	0.25	450	10x10.5	0.7	200			
100	10x10.5	0.25	450	10x10.5	0.7	200			
150	10x10.5	0.25	450						

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