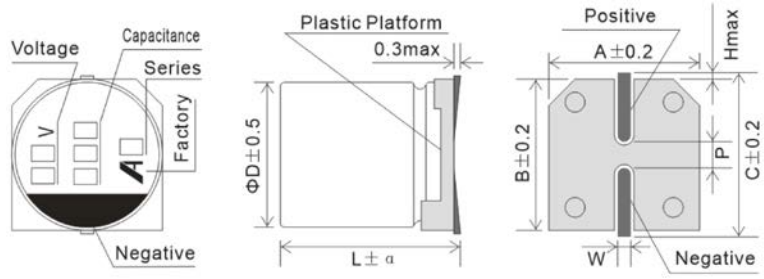
P/N: GVE1C477M0810CNVC	**PRODUCT DATA SHEET** GVE, 16v, 470uF, 8x10.5	Page: 1/2

■ Description 产品描述：

Al-Ecap, 470uF, 16v, ±20%, Low ESR, D8H10.5mm, 3000Hrs@105℃, -55~+105℃, SMD.

■ Dimension& Marking 印刷及尺寸：

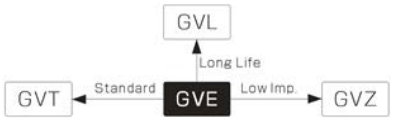


Items / Case	A	B	C	D	P	L	α	W	H
Φ8x10.5	8.3	8.3	9	8.0	3.1	10.5	±0.5	0.8~1.1	0.5max.

■ Features 特长/用途：

- 105℃, 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)	16 V
Capacitance 额定容量(C_R)	470 uF (120Hz, 20℃)
Category Temperance Range 类别温度范围	-55℃ ~ +105℃
Capacitance Tolerance 容量误差	-20% ~ +20% (120Hz, 20℃)
Surge Voltage 浪涌电压(V_S)	18.4 V_{DC}
Leakage Current 泄漏电流(I_{LC})	I_{LC}≤ 75.2 uA After 2 minutes
Dissipation Factor (Tanδ) 损失角正切值	≤ 0.16 (120Hz, 20℃)
Impedance 阻抗 (Z, Ω)	≤ 0.3 (100kHz, 20℃)
Ripple Current 纹波电流(I_{RC}, rms)	450 mA (100kHz, 105℃)
Low Temperature Characteristics 温度特性(120Hz)	Impedance ratio 阻抗比(Max.): $Z_{(-25℃)}/Z_{(+20℃)}$ = 2; $Z_{(-55℃)}/Z_{(+20℃)}$ = 4
Endurance and Shelf Life 耐久性及高温无负荷特性	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℃; V_R / 1,000 Hrs at 105℃ Cap. Change 容量变化率: Within ±20% of initial Value ≤初始值的±20% / Within ±20% of initial Value ≤初始值的±20% Tanδ 损失角正切值: Less than 200% of specified Value ≤初始规格值的±200% / Less than 200% of specified Value ≤初始规格值的±200% Leakage Current 漏电流: Whitin specified Value ≤初始规格值 / Whitin specified Value ≤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				

Series: **GVE**	**PRODUCT DATA SHEET**	Page: 1/2

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)		
	ΦDxL	Imp.	R.C.	ΦDxL	Imp.	R.C.	ΦDxL	Imp.	R.C.	ΦDxL	Imp.	R.C.	ΦDxL	Imp.	R.C.	ΦDxL	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 5x5.7	5.0 3.0	30 50
4.7													4x5.7	3.0	60	4x5.7 5x5.7	5.0 3.0	30 50
10										4x5.7	3.0	60	4x5.7 5x5.7	3.0 1.8	60 95	5x5.7 6.3x5.7	3.0 2.0	50 70
15							4x5.7	3.0	60	4x5.7	3.0	60	5x5.7	1.8	95	6.3x5.7	2.0	70
22				4x5.7	3.0	60	4x5.7 5x5.7	3.0 1.8	60 95	4x5.7 5x5.7	3.0 1.8	60 95	5x5.7	1.8	95	6.3x5.7	2.0	70
33				4x5.7	3.0	60	4x5.7 5x5.7	3.0 1.8	60 95	4x5.7 5x5.7	3.0 1.8	60 95	5x5.7 6.3x5.7	1.8 1.0	95 140	6.3x5.7 6.3x7.7	2.0 1.0	70 120
47	4x5.7	3.0	60	4x5.7 5x5.7	3.0 1.8	60 95	5x5.7 6.3x5.7	1.8 1.0	95 140	5x5.7 6.3x5.7	1.8 1.0	95 140	6.3x5.7	1.0	140	6.3x7.7	1.0	120
56	5x5.7	1.8	95	4x5.7 5x5.7	3.0 1.8	60 95	5x5.7 6.3x5.7	1.8 1.0	95 140	6.3x5.7	1.0	140	6.3x5.7	1.0	140	6.3x7.7	1.0	120
68	5x5.7	1.8	95	5x5.7	1.8	95	5x5.7 6.3x5.7	1.8 1.0	95 140	6.3x5.7	1.0	140	6.3x5.7 6.3x7.7	1.0 0.6	140 230	6.3x7.7 8x10.5	1.0 0.6	120 300
100	5x5.7	1.8	95	5x5.7 6.3x5.7	1.8 1.0	95 140	6.3x5.7 6.3x7.7	1.0 0.6	140 230	6.3x5.7 6.3x7.7	1.0 0.6	140 230	6.3x7.7	0.6	230	8x10.5 10x10.5	0.6 0.3	300 500
150	5x5.7 6.3x5.7	1.8 1.0	95 140	6.3x5.7	1.0	140	6.3x5.7 6.3x7.7	1.0 0.6	140 230	6.3x7.7 8x10.5	0.6 0.3	230 450	6.3x7.7 8x10.5	0.6 0.3	230 450	10x10.5	0.3	500
220	6.3x5.7	1.0	140	6.3x5.7 6.3x7.7	1.0 0.6	140 230	6.3x7.7	0.6	230	8x10.5	0.3	450	8x10.5 10x10.5	0.3 0.15	450 670	10x10.5 10x12.5	0.3 0.16	500 580
330	6.3x5.7 6.3x7.7	1.0 0.6	140 230	6.3x7.7	0.6	230	6.3x7.7 8x10.5	0.6 0.3	230 450	8x10.5 10x10.5	0.3 0.15	450 670	10x10.5	0.15	670			
470	6.3x7.7	0.6	230	6.3x7.7 8x10.5	0.6 0.3	230 450	8x10.5	0.3	450	10x10.5 10x12.5	0.15 0.08	670 800	10x10.5 10x12.5	0.15 0.08	670 800			
680	8x10.5	0.3	450	8x10.5	0.3	450	8x10.5 10x10.5	0.3 0.15	450 670									
1000	8x10.5	0.3	450	8x10.5 10x10.5	0.3 0.15	450 670	10x10.5	0.15	670									
1500	8x10.5 10x10.5	0.3 0.15	450 670															

WV / uF	63v(1J)			80v(1K)			100v(2A)		
	ΦDxL	Imp.	R.C.	ΦDxL	Imp.	R.C.	ΦDxL	Imp.	R.C.
4.7	5x5.7	3.0	50						
10	5x5.7 6.3x5.7	3.0 1.5	50 80	6.3x5.7 6.3x7.7	3.0 2.4	40 60	6.3x7.7	2.4	60
22	6.3x5.7 6.3x7.7	1.5 1.2	80 120	6.3x7.7 8x10.5	2.4 1.5	60 110	8x10.5	1.5	110
33	6.3x7.7 8x10.5	1.2 0.7	120 250	8x10.5	1.5	110	8x10.5 10x10.5	1.5 0.8	110 170
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 10x10.5	0.65 0.35	250 400	10x10.5	0.8	170			
100	10x10.5	0.35	400	10x10.5	0.8	170			
150	10x10.5	0.35	400						