

GVE 105°C, Low Impedance. Series



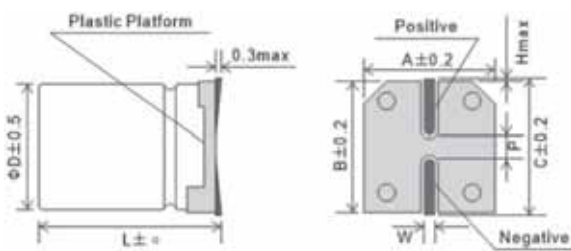
Features

105°C, 2000~3000 hours assured, Low Impedance.
 Available for high density surface mounting.
 High stability and reliability.

Specifications

Item	Condition		Specifications							
Category Temperature Range(°C)	—		-55°C ~ +105°C							
Capacitance Tolerance (%)	120Hz, 20°C		±20%							
Rated Voltage (V)	—		6.3	10	16	25	35	50	63	100
Dissipation Factor (tanδ)	120Hz, 20°C (Max.)	tanδ	0.26	0.20	0.16	0.14	0.12	0.12	0.12	0.08
		Notes	Exceeding 1,000uF, +0.02 every 1,000uF							
Leakage Current (LC)	After 2 minutes, 20°C (uA, Max.)		0.01CV or 3uA, whichever is greater.							
Low Temperature Characteristics	Impedance Ratio (Max.)	Z _{-25°C} /Z _{+20°C}	4	3	2	2	2	2	2	2
		Z _{-55°C} /Z _{+20°C}	8	5	4	3	3	3	3	3
Endurance	105°C, Rated Voltage Applied (With the rated ripple current)	Hours	3,000 (2,000hrs. for Ø4~Ø6.3)							
		ΔC/C	Within ±30% of initial value							
		tanδ	300% or less of the initial specified value							
		LC	The initial specified value or less							
Shelf life	105°C	Hours	1,000							
		Other Items	same as those for the endurance.							

Dimensions



D	L	A	B	C	P	α	W
4	5.7	4.3	4.3	5.0	1.0	±0.3	0.5-0.8
5	5.7	5.3	5.3	6.0	1.5	±0.3	0.5-0.8
6.3	5.7	6.6	6.6	7.3	2.0	±0.3	0.5-0.8
6.3	7.7	6.6	6.6	7.3	2.0	±0.3	0.5-0.8
8	10.5	8.3	8.3	9.0	3.1	±0.5	0.7-1.2
10	10.5	10.3	10.3	11.0	4.7	±0.5	0.7-1.2

Rated Ripple Current Multipliers

Frequency (Hz)	50	120	1k	10k	100K
Capacitance (uF)					
Under 100	0.35	0.50	0.70	0.90	1.00
100 ~ 2200uF	0.40	0.65	0.85	0.95	1.00

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■ Dimensions

uF	WV	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	5.0	30	5x5.7	3.0	50						
4.7													4x5.7	3.0	60	4x5.7	5.0	30	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	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									
22				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	2.0	70						
33				4x5.7	3.0	60	4x5.7	3.0	60	5x5.7	1.8	95	4x5.7	3.0	60	5x5.7	1.8	95	6.3x5.7	2.0	70	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	6.3x7.7	1.0	120						
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	6.3x7.7	1.0	120						
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	6.3x5.7	1.0	140	6.3x7.7	1.0	120	8x10.5	0.6	300			
100	5x5.7	1.8	95	5x5.7	1.8	95	6.3x5.7	1.0	140	6.3x7.7	0.6	230	6.3x5.7	1.0	140	6.3x7.7	0.6	230	8x10.5	0.6	300	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	6.3x5.7	1.0	140	6.3x7.7	0.6	230	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	6.3x7.7	0.6	230	8x10.5	0.3	450	8x10.5	0.3	450	10x10.5	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	8x10.5	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	8x10.5	0.3	450	10x10.5	0.15	670	10x10.5	0.15	670									
680	8x10.5	0.3	450	8x10.5	0.3	450	8x10.5	0.3	450	10x10.5	0.15	670															
1000	8x10.5	0.3	450	8x10.5	0.3	450	10x10.5	0.15	670																		
1500	8x10.5	0.3	450	10x10.5	0.15	670																					

Note1: Case size ΦD x L(mm), ripple current (mA, rms) at 105°C, 100KHz.

Note2: Produce custom product too, which are not found in these tables.

GVE Series

■ Dimensions

uF \ WV	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	6.3x7.7	2.4	60
	6.3x5.7	1.5	80	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			
33	6.3x7.7	1.2	120	8x10.5	1.5	110	8x10.5	1.5	110
	8x10.5	0.7	250				10x10.5	0.8	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	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						

Note1: Case size $\Phi D \times L$ (mm), ripple current (mA, rms) at 105°C, 100KHz.

Note2: Produce custom product too, which are not found in these tables.