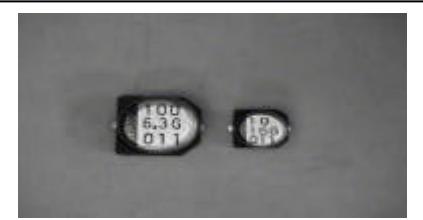


GV Series

Specifications

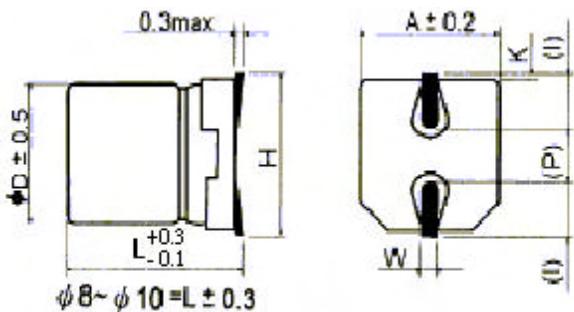
Features
Lifetime: 85 ,2000hrs
Low profile vertical chip

Recommended Applications
AV(TV, Video, Audio)
Monitor/Computer
OA/HA/Communication



Items	Characteristics														
Capacitance Tolerance	$\pm 20\%$ (M) (120Hz,20)														
Rated Voltage Range (WV)	4~50 VDC														
Operating Temperature Range	-40 ~ +85														
Surge Voltage (V) (20)	WV	4	6.3	10	16	25	35	50							
	SV	5	8	13	20	32	44	63							
Leakage Current (Max) (20)	I 0.01CV or 3 μ A whichever is greater (After rated voltage applied for 2 minutes)														
Dissipation Factor (Max) (tan) (120Hz ,20)	I= Leakage Current (μ A) C= Nominal Capacitance (μ F) V= Rated Voltage (V)														
Low Temperature Stability Impedance Ratio (Max)	Shown in the table of standard rating														
	WV Z(120Hz)	4	6.3	10	16	25	35	50							
	Z(-25) / Z(20)	7	4	3	2	2	2	2							
	Z(-40) / Z(20)	15	8	6	4	4	3	3							
Load Life	After applying rated voltage for 2000 hours at 85 , the capacitor shall meet the following requirement.														
	Capacitance Change	Within $\pm 20\%$ of the initial value													
	Dissipation Factor	Not more than 200% of the specified value													
	Leakage Current	Not more than the specified value													
Shelf Life	After placed at 85 without voltage applied for 1000 hours, the capacitor shall meet the same requirement as load life.														
Applicable standards	Refer to JIS C 5101														

Dimensions (mm)



() : Reference size

D	L	A	H	I	W	P	K
4.0	5.4	4.3	5.5 Max	1.8	0.65 ± 0.1	1.0 ± 0.2	0.35 +0.15 -0.20
5.0	5.4	5.3	6.5 Max	2.2	0.65 ± 0.1	1.5 ± 0.2	0.35 +0.15 -0.20
6.3	5.4	6.6	7.8 Max	2.6	0.65 ± 0.1	1.8 ± 0.2	0.35 +0.15 -0.20
8.0	6.2	8.3	9.5 Max	3.4	0.65 ± 0.1	2.2 ± 0.2	0.35 +0.15 -0.20
8.0	10.2	8.3	10.0 Max	3.4	0.90 ± 0.2	3.1 ± 0.2	0.70 ± 0.2
10.0	10.2	10.3	12.0 Max	3.5	0.90 ± 0.2	4.6 ± 0.2	0.70 ± 0.2

Multiplier for Ripple Current

Frequency coefficient

Frequency (Hz)	60	120	1K	10K~100K
Coefficient	0.80	1.00	1.15	1.25

Temperature coefficient

Ambient Temperature ()	50	70	85
Coefficient	1.36	1.25	1.00

Tel: (949)642-7324

SECI Engineers & Buyers' Guide

Fax: (949)642-7327

Case Size / tan / Max Ripple Current / ESR

CASE SIZE (DxL(mm)) / MAX DISSIPATION FACTOR (tan / 120Hz,20) / MAX PERMISSIBLE RIPPLE CURRENT (RC(mArms) / 120Hz,85) / MAX EQUIVALENT SERIES RESISTANCE (ESR() / 120Hz,20)

WV	4				6.3				10				16				
	SPEC μF	DxL	tan	RC	ESR	DxL	tan	RC	ESR	DxL	tan	RC	ESR	DxL	tan	RC	ESR
4.7														4x5.4	0.16	20	45.1
10														4x5.4	0.16	28	21.1
22	4x5.4	0.35	19	21.1	4x5.4	0.26	20	15.6	4x5.4	0.30	28	18.0	4x5.4	0.26	27	15.6	
33	4x5.4	0.35	26	14.0	5x5.4	0.26	22	10.4	4x5.4	0.30	29	12.0	5x5.4	0.26	45	10.4	
47	4x5.4	0.35	34	9.87	5x5.4	0.26	46	7.33	5x5.4	0.30	43	8.46	6.3x5.4	0.16	70	4.51	
100	5x5.4	0.35	61	4.64	6.3x5.4	0.26	71	3.44	6.3x5.4	0.26	70	3.44	6.3x5.4	0.20	70	2.65	
220	6.3x5.4	0.35	82	2.11	8x6.2	0.35	250	2.11	8x6.2	0.26	250	1.56	8x10.2	0.20	280	1.20	
330					8x6.2	0.35	300	1.40	8x10.2	0.26	330	1.04	10x10.2	0.20	380	0.803	
470					8x10.2	0.35	380	0.987	10x10.2	0.26	400	0.733	10x10.2	0.20	420	0.564	
1000					10x10.2	0.35	700	0.464	10x10.2	0.26	580	0.344					

WV	25				35				50			
	SPEC μF	DxL	tan	RC	ESR	DxL	tan	RC	ESR	DxL	tan	RC
0.1									4x5.4	0.12	1	1593
0.22									4x5.4	0.12	2	723
0.33									4x5.4	0.12	3	482
0.47									4x5.4	0.12	5	338
1									4x5.4	0.12	10	159
2.2					4x5.4	0.12	8	72.3	4x5.4	0.12	16	72.3
3.3					4x5.4	0.12	10	48.2	4x5.4	0.12	16	48.2
4.7	4x5.4	0.14	22	39.5	4x5.4	0.12	22	33.8	5x5.4	0.12	23	33.8
10	4x5.4	0.20	24	26.5	4x5.4	0.16	24	21.2	6.3x5.4	0.12	35	15.9
	5x5.4	0.14	28	18.5	5x5.4	0.12	30	15.9				
22	6.3x5.4	0.14	55	8.44	6.3x5.4	0.12	60	7.23	8x6.2	0.12	110	7.23
33	6.3x5.4	0.14	65	5.62	8x6.2	0.14	130	5.62	8x10.2	0.12	120	4.82
47	6.3x5.4	0.20	70	5.64	8x6.2	0.14	165	3.95	10x10.2	0.12	130	3.38
	8x6.2	0.16	96	4.51								
100	8x10.2	0.16	180	2.12	10x10.2	0.14	210	1.85	10x10.2	0.12	190	1.59
220	10x10.2	0.16	310	0.964	10x10.2	0.14	310	0.844				