

SURFACE MOUNT ALUMINUM ELECTROLYTIC

>GV General purpose Series

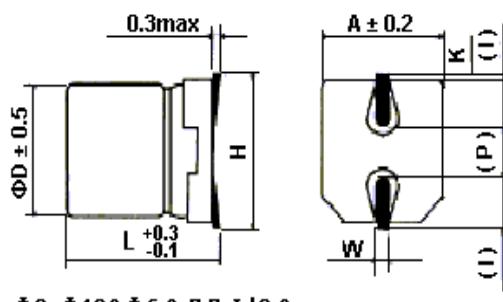
- Features : 85°C 2000 hours & Low profile vertical chip
- Recommended Applications: Suitable for AV(TV,Video,Audio),Monitor/Computer, Home appliance, OA/H.A/Communication
- Corresponding product to RoHS



■ Specifications

Item	Characteristics									
Operating Temperature Range	-40 ~ +85°C									
Rated Voltage Range (WV)	4 ~ 100VDC									
Capacitance Range	0.1 ~ 1500 μ F									
Capacitance Tolerance	$\pm 20\%$ at 120Hz , 20°C									
Leakage Current (MAX) (20°C)	I \leq 0.01CV or 3(μ A) , whichever is greater. (After rated voltage applied for 2 minutes) I= Leakage Current (μ A) C= Nominal Capacitance (μ F) V= Rated Voltage (V)									
Dissipation Factor (MAX) (tan δ) (120Hz ,20°C)	Shown in the table of standard rating									
Low Temperature Stability Impedance Ratio (MAX)	WV Z(120Hz)	4	6.3	10	16	25	35	50	63	100
	Z(-25°C) / Z(20°C)	7	4	3	2	2	2	2	2	2
	Z(-40°C) / Z(20°C)	15	8	6	4	4	3	3	3	3
Endurance	After applying rated voltage for 2000hrs at 85°C, the capacitors shall meet the following requirements.									
	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°C without voltage applied for 1000 hours, the capacitor shall meet the same requirement as Endurance.									

■ Diagram of Dimensions(mm)



() : Reference size

ϕD	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
6.3	7.7	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±0.20
10.0	10.2	10.3	12.0 Max	3.5	0.90±0.2	4.6±0.2	0.70±0.20

■ Multiplier for Ripple Current

Frequency coefficient

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

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Dimensions, Max Dissipation Factor, Max Permissible Ripple Current

Capacitance (μ F)	Rated (Surge) Voltage											
	4(5)			6.3(8)			10(13)			16(20)		
	Size	$\tan \delta$	Ripple	Size	$\tan \delta$	Ripple	Size	$\tan \delta$	Ripple	Size	$\tan \delta$	Ripple
4.7										4x5.4	0.16	20
10										4x5.4	0.16	28
22				4x5.4	0.26	20	4x5.4	0.30	28	4x5.4	0.26	28
										5x5.4	0.16	39
33	4x5.4	0.35	26	4x5.4	0.26	22	4x5.4	0.30	29	5x5.4	0.26	45
							5x5.4	0.20	43	6.3x5.4	0.16	66
47	4x5.4	0.35	34	4x5.4	0.26	36	5x5.4	0.30	43	5x5.4	0.16	45
				5x5.4	0.26	46				6.3x5.4	0.16	70
100	5x5.4	0.35	61	5x5.4	0.26	47	6.3x5.4	0.26	70	6.3x5.4	0.20	70
				6.3x5.4	0.26	71				6.3x7.7	0.20	85
220	6.3x5.4	0.35	82	6.3x5.4	0.35	74	6.3x5.4	0.26	105	6.3x7.7	0.20	162
				6.3x7.7	0.35	235	6.3x7.7	0.26	250	8x10.2	0.20	280
330	6.3x5.4	0.35	80	6.3x7.7	0.35	280	8x10.2	0.26	330	8x10.2	0.20	320
										10x10.2	0.20	380
470	6.3x7.7	0.35	200	8x10.2	0.35	380	8x10.2	0.26	390	8x10.2	0.20	350
							10x10.2	0.26	400	10x10.2	0.20	420
1000				8x10.2	0.35	500	10x10.2	0.26	580			
				10x10.2	0.35	700						
1500				10x10.2	0.35	750						

Capacitance (μ F)	Rated (Surge) Voltage									
	25(32)			35(44)			50(63)			
	Size	$\tan \delta$	Ripple	Size	$\tan \delta$	Ripple	Size	$\tan \delta$	Ripple	
0.1							4x5.4	0.12	1	
0.22							4x5.4	0.12	2	
0.33							4x5.4	0.12	3	
0.47							4x5.4	0.12	5	
1							4x5.4	0.12	10	
2.2				4x5.4	0.12	8	4x5.4	0.12	16	
3.3				4x5.4	0.12	10	4x5.4	0.12	16	
4.7	4x5.4	0.14	22	4x5.4	0.12	22	4x5.4	0.14	18	
							5x5.4	0.12	23	
10	4x5.4	0.20	24	4x5.4	0.16	24	5x5.4	0.14	27	
	5x5.4	0.14	28	5x5.4	0.12	30	6.3x5.4	0.12	35	
22	5x5.4	0.20	35	5x5.4	0.16	36	6.3x5.4	0.14	40	
	6.3x5.4	0.14	55	6.3x5.4	0.12	60	6.3x7.7	0.12	90	
33	5x5.4	0.20	42	6.3x5.4	0.16	60	6.3x7.7	0.12	90	
	6.3x5.4	0.14	65	6.3x7.7	0.14	130	8x10.2	0.12	120	
47	6.3x5.4	0.20	70	6.3x5.4	0.16	70	6.3x7.7	0.12	63	
	6.3x7.7	0.16	96	6.3x7.7	0.14	165	8x10.2	0.12	120	
100	6.3x7.7	0.16	143	6.3x7.7	0.14	140	8x10.2	0.12	200	
	8x10.2	0.16	180	8x10.2	0.14	180	10x10.2	0.12	250	
220	8x10.2	0.16	230	8x10.2	0.14	200	10x10.2	0.12	300	
	10x10.2	0.16	310	10x10.2	0.14	310				
330	8x10.2	0.16	270	10x10.2	0.14	350				
	10x10.2	0.16	340							
470	10x10.2	0.16	380							

Capacitance (μ F)	Rated (Surge) Voltage					
	63(79)			100(125)		
	Size	$\tan \delta$	Ripple	Size	$\tan \delta$	Ripple
3.3				6.3x7.7	0.18	50
4.7	6.3x5.4	0.18	20	6.3x7.7	0.18	50
10	6.3x5.4	0.18	20	6.3x7.7	0.18	50
				8x10.2	0.18	55
22	6.3x7.7	0.18	40	8x10.2	0.18	55
	8x10.2	0.18	40	10x10.2	0.18	85
33	8x10.2	0.18	45	10x10.2	0.18	90
47	8x10.2	0.18	45			
100	10x10.2	0.18	60			

☆Size:D ϕ x L(mm).☆ $\tan \delta$:20°C,120Hz.☆Ripple Current: 85°C,120Hz,(mA/rms).