G·LUXON

SURFACE MOUNT ALUMINUM ELECTROLYTIC

GV General purpose Series

●Features : 85℃ 2000 hours & Low profile vertical chip
●Recommended Applications: Suitable for AV(TV,Video,Audio),Monitor/Computer, Home appliance, OA/HA/Communication
●Corresponding product to RoHS

■ Specifications

Item	Characteristics
Operating Temperature Range	-40 ~ +85℃
Rated Voltage Range (WV)	4 ~ 100VDC
Capacitance Range	0.1 ~ 1000 μF
Capacitance Tolerance	± 20 % at 120Hz , 20℃
Leakage Current (MAX) (20℃)	I≦0.01CV or 3(μA) , whichever is greater. (After rated voltage applied for 2 minutes)
	I= Leakage Current (μA) C= Nominal Capacitance (μF) V= Rated Voltage (V)
Dissipation Factor (MAX) (tan δ) (120Hz ,20℃)	Shown in the table of standard rating
Low Temperature Stability Impedance Ratio (MAX)	

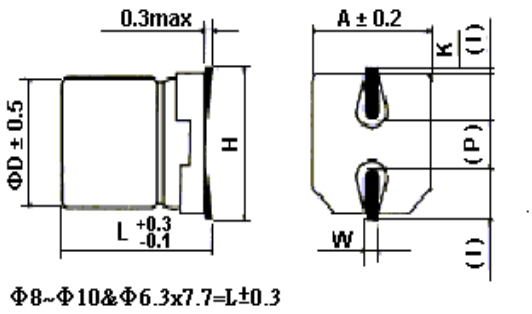
WV / Z(120HZ)	4	6.3	10	16	25	35	50	63	100
Z(-25℃) / Z(20℃)	7	4	3	2	2	2	2	2	2
Z(-40℃) / Z(20℃)	15	8	6	4	4	3	3	3	3

Endurance: After applying rated voltage for 2000hrs at 85℃, the capacitors shall meet the following requirements.

Capacitance Change	Within ±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 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,Max Equivalent Series Resistance

Capacitance (μF)	Rated (Surge) Voltage															
	4(5)				6.3(8)				10(13)				16(20)			
	Size	tan δ	Ripple	ESR	Size	tan δ	Ripple	ESR	Size	tan δ	Ripple	ESR	Size	tan δ	Ripple	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	4x5.4	0.26	27	15.6
													5x5.4	0.16	39	9.64
33	4x5.4	0.35	26	14.0	5x5.4	0.26	22	10.4	4x5.4	0.30	29	12	5x5.4	0.26	45	10.4
									5x5.4	0.20	43	8.03	6.3x5.4	0.16	66	6.43
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
													6.3x7.7	0.18	75	5.07
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
													6.3x7.7	0.20	85	2.38
220	6.3x5.4	0.35	82	2.11	6.3x7.7	0.35	235	2.11	6.3x7.7	0.26	105	1.32	6.3x7.7	0.20	105	1.08
					8x6.2	0.35	250	2.11	8x6.2	0.26	250	1.56	8x10.2	0.20	280	1.20
330					6.3x7.7	0.35	280	1.40	8x10.2	0.26	330	1.04	10x10.2	0.20	380	0.80
					8x6.2	0.35	300	1.40								
470					8x10.2	0.35	380	0.99	10x10.2	0.26	400	0.73	10x10.2	0.20	420	0.56
1000					10x10.2	0.35	700	0.46	10x10.2	0.26	580	0.34				

Capacitance (μF)	Rated (Surge) Voltage											
	25(32)				35(44)				50(63)			
	Size	tan δ	Ripple	ESR	Size	tan δ	Ripple	ESR	Size	tan δ	Ripple	ESR
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	6.3x7.7	0.12	90	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	6.3x7.7	0.12	90	4.82
									8x10.2	0.12	120	4.82
47	6.3x5.4	0.20	70	5.64	8x6.2	0.14	165	3.95	6.3x7.7	0.12	63	3.38
	8x6.2	0.16	96	4.51					10x10.2	0.12	130	3.38
100	6.3x7.7	0.16	115	2.12	6.3x7.7	0.14	140	1.85	10x10.2	0.12	190	1.59
	8x10.2	0.16	180	2.12	10x10.2	0.14	210	1.85				
220	10x10.2	0.16	310	0.96	10x10.2	0.14	310	0.84				

Capacitance (μF)	Rated (Surge) Voltage							
	63(79)				100(125)			
	Size	tan δ	Ripple	ESR	Size	tan δ	Ripple	ESR
3.3					8x10.2	0.18	30	72.3
4.7	6.3x5.4	0.18	20	50.8	8x10.2	0.18	50	50.8
10	6.3x5.4	0.18	20	23.8	8x10.2	0.18	55	23.8
22	8x10.2	0.18	30	10.8	10x10.2	0.18	60	10.8
33	8x10.2	0.18	30	7.23	10x10.2	0.18	65	7.23
47	8x10.2	0.18	30	5.08				
100	10x10.2	0.18	60	2.38				

☆Size:D φ x L(mm).☆tan δ :20℃,120Hz.☆Ripple Current: 85℃,120Hz,(mA/rms)☆ESR:20℃,120Hz,(Ω).