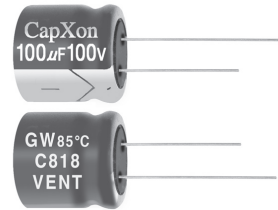


CapXon GW Series

GW Series 9-25 mm height Low Profile 85°C

Features

- ◆ Miniaturized low profile.
- ◆ Height 9mm-25mm max.
- ◆ Safety vent construction design.
- ◆ For detail specifications, please refer to Engineering Bulletin No. E123
- ◆ RoHS Compliant



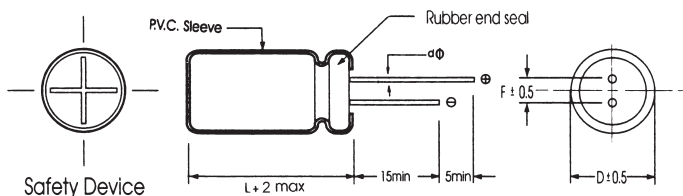
Specifications

Item	Performance Characteristics																																			
Operating Temperature Range	-40 to +85°C	-25 to +85°C																																		
Rated Voltage Range	6.3 to 100 VDC	60 to 450 VDC																																		
Capacitance Range	2.2 to 10000 µF	2.2 to 220 µF																																		
Capacitance Tolerance	±20% (120Hz, +20°C)																																			
Leakage Current (+20°C,max.)	I ≤ 0.01 CV or 3 (µA) After 2 minutes whichever is greater measured with rated working voltage applied.	I ≤ 0.04 CV+100 (µA) After 2 minutes with rated working voltage applied.																																		
Dissipation Factor (tan δ , at 20°C , 120Hz)	<table border="1"> <tr> <td>Working Voltage(VDC)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>D.F. (%)max.</td> <td>24</td> <td>22</td> <td>20</td> <td>14</td> <td>12</td> <td>12</td> <td>10</td> <td>10</td> </tr> </table>								Working Voltage(VDC)	6.3	10	16	25	35	50	63	100	D.F. (%)max.	24	22	20	14	12	12	10	10										
	Working Voltage(VDC)	6.3	10	16	25	35	50	63	100																											
D.F. (%)max.	24	22	20	14	12	12	10	10																												
	<table border="1"> <tr> <td>Working Voltage(VDC)</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> <td colspan="2"></td> </tr> <tr> <td>D.F. (%)max.</td> <td>15</td> <td>15</td> <td>15</td> <td>20</td> <td>20</td> <td>20</td> <td colspan="2"></td> </tr> </table> <p>For capacitance > 1000 µF, add 2% per another 1000 µF.</p>								Working Voltage(VDC)	160	200	250	350	400	450			D.F. (%)max.	15	15	15	20	20	20												
Working Voltage(VDC)	160	200	250	350	400	450																														
D.F. (%)max.	15	15	15	20	20	20																														
Low Temperature Characteristics (at 120Hz)	Impedance ratio max																																			
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	Working Voltage(VDC)	6.3	10	16	25	35	50	63	100																											
	Z-25°C / Z+20°C	6	4	4	3	2	2	2	2																											
Z-40°C / Z+20°C	12	10	8	6	4	3	3	3																												
<table border="1"> <tr> <td>Working Voltage(VDC)</td> <td>160</td> <td>200</td> <td>250</td> <td>350</td> <td>400</td> <td>450</td> <td colspan="2"></td> </tr> <tr> <td>Z-25°C / Z+20°C</td> <td>2</td> <td>2</td> <td>3</td> <td>5</td> <td>5</td> <td>7</td> <td colspan="2"></td> </tr> </table>									Working Voltage(VDC)	160	200	250	350	400	450			Z-25°C / Z+20°C	2	2	3	5	5	7												
Working Voltage(VDC)	160	200	250	350	400	450																														
Z-25°C / Z+20°C	2	2	3	5	5	7																														
For Capacitance > 1000 µF, add 0.5 per another 1000 µF for -25°C / +20°C add 1 per another 1000 µF for -40°C / +20°C																																				
Load Life	Test conditions Duration time :2000Hrs Ambient temperature :+85°C Applied voltage :Rated DC working voltage After test requirements at +20°C Capacitance change :≤ ±20% of the initial measured value Dissipation factor :≤ 200% of the initial specified value Leakage current :≤ The initial specified value																																			
Shelf Life	Test conditions Duration time :1000Hrs Ambient temperature :+85°C Applied voltage :None After test requirements at +20°C:Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.																																			

Multiplier for Ripple Current vs. Frequency

CAP(µF) \ Frequency(Hz)	50(60)	120	400	1K	≥10K
2.2~47 µF	0.8	1	1.20	1.30	1.50
100~1000 µF	0.8	1	1.10	1.15	1.20
2200~10000 µF	0.8	1	1.05	1.10	1.15

Diagram of Dimensions:(unit:mm)



Dψ	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
dψ	0.5		0.6		0.8		

CapXon GW Series

Case Size

WV (SV) Cap(μF)	6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		63 (79)		φ DxL(mm)
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
2.2												5x9	23	5x9	26
3.3												5x9	30	5x9	31
4.7												5x9	35	5x9	36
6.8												5x9	50	5x9	54
10												5x9	64	6.3x9	68
22												5x9	86	6.3x9	102
33										5x9	95	6.3x9	115	8x9	135
47							5x9	105	6.3x9	120	6.3x9	135	10x9	170	
68					5x9	120	6.3x9	130	6.3x9	140	8x9	155	10x9	200	
100	5x9	128	5x9	134	6.3x9	160	6.3x9	175	8x9	220	10x9	230	10x16	340	
150	5x9	150	6.3x9	180	6.3x9	260	8x9	280	8x9	300	10x9	320	13x13	384	
220	6.3x9	180	6.3x9	210	8x9	290	8x9	310	10x9	335	10x16	380	13x13	490	
330	6.3x9	247	8x9	300	8x9	340	10x9	400	10x12.5	475	13x13	530	16x16	610	
					10x9	355			13x16	550					
470	8x9	360	8x9	360	10x9	410	10x12.5	525	13x13	590	13x16	720	16x16	840	
									13x16	650	16x16	750			
680	10x9	420	10x9	540	10x12.5	560	10x16	700	13x16	730	16x16	805	16x21	950	
									13x13	730					
1000	10x9	530	10x12.5	625	13x13	750	13x16	1050	16x16	1230	16x21	1450	18x25	1600	
2200	13x16	1050	13x16	1080	16x16	1150	16x21	1350	18x21	1600	18x25	1650			
							18x16	1300							
3300	16x16	1200	16x16	1350	16x16	1500	18x21	1600	18x25	1750					
					18x16	1460									
4700	16x16	1500	16x21	1550	18x21	1650	18x25	2100							
6800	16x21	1550	18x21	1850	18x25	2120									
	18x16	1600													
10000	18x21	2000	18x25	2300											

WV (SV) Cap(μF)	100 (125)		160 (200)		200 (250)		250 (300)		350 (400)		400 (450)		450 (500)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1.5													8x9	30
2.2	5x9	27									8x9	38	10x9	46
3.3	5x9	33							8x9	45	10x9	50	10x9	55
4.7	6.3x9	41	8x9	50	8x9	55	8x9	60	10x9	78	10x9	90	10x12.5	105
							10x9	52						
6.8	6.3x9	59	8x9	75	8x9	78	10x9	82	10x16	105	13x16	125	13x16	135
10	8x9	78	10x9	87	10x9	92	10x9	98	13x16	145	13x16	160	16x16	200
							10x16	120			16x16	190		
22	8x9	107	10x16	135	13x16	150	13x16	165	16x16	190	16x21	230	16x21	250
							16x16	210			18x16	225		
33	10x9	155	13x16	175	13x16	190	16x16	230	16x21	270	18x21	300	18x21	320
					16x16	200	18x16	260	18x16	335				
47	10x16	220	13x16	285	16x16	320	16x21	340	18x21	360	18x21	385	18x25	410
			16x16	325	18x16	380								
68	10x16	261	16x16	340	16x16	360	16x21	420	18x25	510	18x25	540		
	13x13	270			18x16	390								
100	13x13	410	16x21	515	16x21	575	18x21	610						
150	16x16	579	18x21	620	18x25	645	18x25	685						
220	16x21	668	18x25	840										
330	16x25	864												
470	18x25	1361												

Ripple Current (mA, rms) at 85°C 120Hz