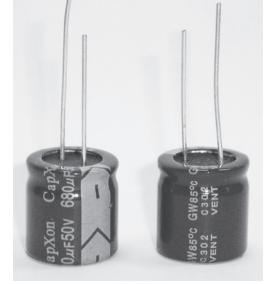


CapXon GW Series

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

Features

- ◆ Miniaturized low profile.
- ◆ Height 9mm-25mm max.
- ◆ Load life 2000 hrs at 85°C.
- ◆ Safety vent construction design.
- ◆ For detail specifications, please refer to Engineering Bulletin No. E123



Specifications

Item	Performance Characteristics	
Operating Temperature Range	-40 to +85°C	-25 to +85°C
Rated Voltage Range	6.3 to 100 VDC	160 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)	$I \leq 0.01 CV$ or $3 (\mu A)$ After 2 minutes whichever is greater measured with rated working voltage applied.	$I \leq 0.04 CV+100 (\mu A)$ After 2 minutes with rated working voltage applied.
Dissipation Factor($\tan \delta$)	(+20°C, at 120Hz)	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) 160 200 250 350 400 450
		D.F. (%)max. 15 15 15 20 20 20
For capacitance > 1000 µF, add 2% per another 1000 µF.		
Low Temperature Characteristics (120Hz)	Impedance ratio max.	Working Voltage(VDC) 6.3 10 16 25 35 50
		Z-25°C / Z+20°C 6 4 4 3 2 2
		Z-40°C / Z+20°C 12 10 8 6 4 3
		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.	

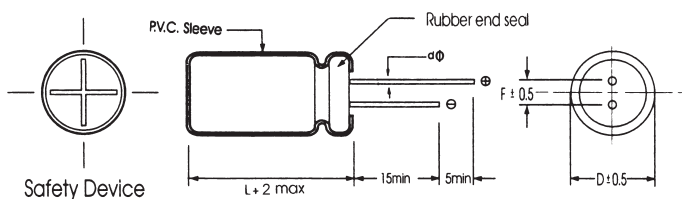
Multiplier for Ripple Current vs. Frequency

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

Multiplier for Ripple Current vs. Temperature

Temperature(°C)	50	70	85
Multiplier	1.75	1.30	1.0

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)	6.3 (8)		10 (13)		16 (20)		25 (32)		35 (44)		50 (63)		63 (79)		φDxL(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	155	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	407
												13x13	400		
330	6.3x9	247	8x9	300	8x9	340	10x9	400	10x12.5	475		13x13	530	16x16	535
					10x9	355						13x16	550		
470	8x9	360	8x9	360	10x9	410	10x12.5	525	13x13	585		13x16	700	16x16	578
									13x16	600		16x16	730		
680	10x9	420	10x9	540	10x12.5	560	10x16	700	13x16	750		16x16	805	16x21	830
							13x13	730							
1000	10x9	530	10x12.5	625	13x13	720	13x16	900	16x16	950		16x21	1050	18x25	1360
2200	13x16	1050	13x16	1050	16x16	1150	16x21	1350	18x21	1550		18x25	1650		
							18x16	1300							
3300	16x16	1200	16x16	1250	16x16	1500	18x21	1600	18x25	1750					
					18x16	1460									
4700	16x16	1500	16x21	1550	18x21	1650	18x25	2000							
6800	16x21	1550	18x21	1850	18x25	2120									
	18x16	1600													
10000	18x21	2000	18x25	2300											

WV (SV)	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	18
2.2	5x9	27									8x9	32	10x9	25
3.3	5x9	33							8x9	35	10x9	42	10x9	30
4.7	6.3x9	41	8x9	50	8x9	50	8x9	50	10x9	45	10x12.5	48	10x16	50
							10x9	52						
6.8	6.3x9	59	8x9	52	8x9	52	10x9	58	10x16	75	13x16	72	13x16	70
10	8x9	78	10x9	78	10x9	78	10x9	78	13x16	95	13x16	95	16x16	130
							10x16	100			16x16	105		
22	8x9	107	10x16	135	13x16	130	13x16	130	16x16	140	16x21	145	16x21	140
							16x16	135			18x16	150		
33	10x9	155	13x16	175	13x16	190	16x16	200	16x21	230	18x21	240	18x21	200
					16x16	200	18x16	210	18x16	240				
47	10x16	220	13x16	220	16x16	230	16x21	260	18x21	270	18x21	270	18x25	240
			16x16	230			18x16	300						
68	10x16	261	16x16	300	16x16	330	16x21	380	18x25	390	18x25	410		
	13x13	270			18x16	350								
100	13x13	350	16x21	430	16x21	450	18x21	440						
150	16x16	579	18x21	550	18x25	550	18x25	550						
220	16x21	668	18x25	730										
330	16x25	864												
470	18x25	1361												

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