



# GH Small size, Wide temperature range

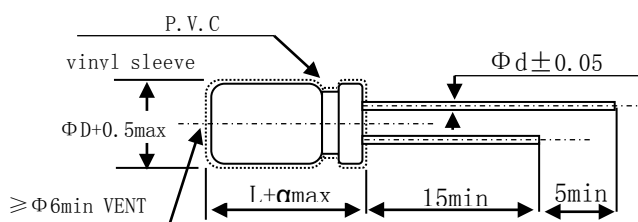
- ☆ Has characteristics of withstanding high temperature 105°C and reliability.
- ☆ Suitable for communication equipment and pc industrial measurement instruments.

## ■ Specifications

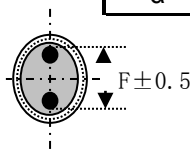
Operating temperature range	-40~+105°C		-25~+105°C								
Rated voltage range	6.3~100V DC		160~250V DC								
Nominal capacitance range	0.1~10000μF		1~330μF								
Capacitance tolerance	±20%(25°C, 120Hz)										
Leakage current	1 ≤ 0.01C <sub>R</sub> U <sub>R</sub> or 3(μA), Whichever is greater( 2minutes )		1 ≤ 0.03C <sub>R</sub> U <sub>R</sub> +10(μA), (2minutes)								
tg δ	U <sub>R</sub> (V)	6.3	10	16	25	35	50	63	100	160	250
Dissipation factor(25°C, 120HZ)	tg δ	0.24	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.18	0.18
	0.02 is added to every 1000μF increase over 1000μF										
Temperature characteristics (120HZ)	U <sub>R</sub> (V)	6.3	10	16	25	35	50	63	100	160	250
	Z-25°C / Z+20°C	5	4	3	2	2	2	2	2	3	4
	Z-40°C / Z+20°C	9	8	6	4	3	3	3	3	4	5
1 is added to every 1000μF increase over 1000μF											
Load life	After applying rated voltage with specified ripple current for 2000hours at +105°C and then resumed 16h Capacitance change : Within ±20% of the initial measured value Leakage current : Not more than the initial specified value Dissipation factor: Not more than 150% of the initial specified value										
Shelf life	After storage for 1000hours at +105°C then resumed 16hours; Capacitance change : With ±20% of the initial measured value Leakage current : Not more than 200% of the initial specified value Dissipation factor : Not more than 120% of the initial specified value										

## ■ Case size table

Unit:mm



ΦD	5	6	8	10	12	13	16	18	21	22
F	2.0	2.5	3.5	5.0		7.5		10.0		
Φd	0.5		0.6		0.8					
α	1.0		1.5		2.0					





ALUMINUM ELECTROLYTIC CAPACITOR

■Nominal capacitance, rated voltage, rated ripple current and case size table

C <sub>R</sub> (μF)	U <sub>R</sub> (V) Item code	6 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)	
		D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)
4.7	4R7							5×11	20	5×11	25
10	100			5×11	28	5×11	28	5×11	30	5×11	32
22	220	5×11	32	5×11	37	5×11	41	5×11	44	5×11	52
33	330	5×11	41	6.3*11	46	5×11	51	5×11	60	5×11	64
47	470	5×11	50	5×11	54	5×11	67	5×11	70	6×12	85
100	101	5×11	80	5×11	85	5×11	110	6×11	110	6×12	140
220	221	5×11	136	6×12	143	6×12	180	8×12	220	8×12	270
330	331	6×11	187	6×12	200	8×11	250	8*12	300	10×12	350
470	471	6×12	213	6×12	280	8×12	330	10×12	400	10×16	480
1000	102	8×12	400	8*14	480	10×12	550	10×20	720	13×20	750
2200	222	10×15	700	10×20	850	13×20	900	13×25	1200	16×25	1300
3300	332	10×20	950	13*20	1100	13×25	1200	16×25	1500	16×35	1700
4700	472	13×20	1100	13×25	1300	16×25	1600	16×30	1920	18×35	2060
6800	682	13×25	1400	16×25	1600	16×30	2115	18×35	2280	22×40	2325
10000	103	16×25	1800	16×30	2160	18×35	2365	22*40	2730		
15000	153	16×35	2400	18×35	2850						

C <sub>R</sub> (μF)	U <sub>R</sub> (V) Item code	50 (1H)		63 (1J)		100 (2A)		160 (2C)		250 (2E)	
		D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)	D×L (mm)	Ripple (mA)
0.1	0R1	5×11	3			5×11	4				
0.22	R22	5×11	5			5×11	6				
0.33	R33	5×11	6			5×11	7				
0.47	R47	5×11	8			5×11	8				
1	010	5×11	10			5×11	12	5×11	9	6×12	11
2.2	2R2	5×11	16			5×11	18	6×11	16	6*12	18
3.3	3R3	5×11	20			5×11	22	6×11	21	8×12	25
4.7	4R7	5×11	24	5×11	25	5×11	29	8×11	30	8*16	30
10	100	5×11	35	5×11	41	6×11	50	8×12	40	10×15	53
22	220	5×11	58	6*12	70	8×11	80	10×15	75	13*20	100
33	330	6×12	80	6×12	85	8×12	110	10×20	103	12×20	125
47	470	6×12	95	8×11	110	8×14	140	12×20	149	12×25	163
100	101	8×11	180	10*12	200	10×20	220	16×25	245	16×30	280
220	221	10×15	330	10×15	340	13×25	410	16×35	480		
330	331	10×20	410	10×20	450	16×25	560	21×30	680		
470	471	10*20	560	13×20	560	16*25	730	22×40	900		
1000	102	13×25	800	16×25	950	22*40	1150				
2200	222	16*30	1400	18×35	2000						
3300	332	18*35	1800	22×40	2100						
4700	472	22×40	2240								