

DRAWING (Unit: mm) 外形图



DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT 规格尺寸及最大允许纹波电流

WV Code μF	4		6.3		10		16		25		
	0G		0J		1A		1C		1E		
4.7	4R7								4 × 5.4	19	
10	100						4 × 5.4	25	5 × 5.4 (4 × 5.4)	28 (20)	
15	150						4 × 5.4	28	5 × 5.4	34	
22	220			4 × 5.4	31	5 × 5.4 (4 × 5.4)	35 (28)	5 × 5.4 (4 × 5.4)	39 (28)	6.3 × 5.4 (5 × 5.4)	52 (35)
33	330	4 × 5.4	26	5 × 5.4 (4 × 5.4)	39 (31)	5 × 5.4 (4 × 5.4)	43 (32)	6.3 × 5.4 (5 × 5.4)	57 (40)	6.3 × 5.4 (5 × 5.4)	63 (42)
47	470	4 × 5.4	34	5 × 5.4 (4 × 5.4)	47 (36)	5 × 5.4	43	6.3 × 5.4 (5 × 5.4)	68 (44)	6.3 × 5.4	68
56	560	4 × 5.4	39	5 × 5.4	46	6.3 × 5.4	57	6.3 × 5.4	74	6.3 × 5.4	82
68	680	5 × 5.4	45	6.3 × 5.4 (5 × 5.4)	62 (52)	6.3 × 5.4	72	6.3 × 5.4	80	6.3 × 5.4	94
100	101	5 × 5.4	61	6.3 × 5.4 (5 × 5.4)	71 (55)	6.3 × 5.4	76 (70)	6.3 × 5.4	86	6.3 × 7.7	130
150	151	6.3 × 5.4	74	6.3 × 5.4	78	6.3 × 5.4	88	6.3 × 7.7	135	8 × 10.5 (6.3 × 7.7)	200 (130)
220	221	6.3 × 5.4	82	6.3 × 5.4	95	6.3 × 7.7	150	8 × 10.5 (6.3 × 7.7)	215 (150)	8 × 10.5	250
330	331	6.3 × 7.7	150	6.3 × 7.7	150	8 × 10.5	280	8 × 10.5	280	10 × 10.5 (8 × 10.5)	340 (310)
470	471	6.3 × 7.7	150	8 × 10.5 (6.3 × 7.7)	300 (150)	10 × 10.5 (8 × 10.5)	320 (300)	10 × 10.5 (8 × 10.5)	420 (330)	10 × 10.5	400
680	681	8 × 10.5	300	8 × 10.5	300	10 × 10.5	380	10 × 10.5	450	10 × 13.5	550
1000	102	8 × 10.5	330	10 × 10.5 (8 × 10.5)	430 (330)	10 × 10.5	450	12.5 × 13.5 (10 × 13.5) (10 × 10.5)	710 (550) (490)	12.5 × 13.5	820
1500	152	10 × 10.5	450	10 × 13.5 (10 × 10.5)	650 (450)	10 × 13.5	650	12.5 × 13.5	750	12.5 × 16	1000
2200	222	10 × 13.5 (10 × 10.5)	620 (480)	12.5 × 13.5 (10 × 13.5)	890 (720)	12.5 × 13.5	960	16 × 16.5 (12.5 × 16)	1150 (1000)	16 × 16.5	1250
3300	332	10 × 13.5	700	12.5 × 16 (12.5 × 13.5)	1000 (900)	16 × 16.5 (12.5 × 16)	1300 (1050)	16 × 16.5	1350		
4700	472	12.5 × 13.5	850	16 × 16.5	1400	16 × 16.5	1450			Case size 尺寸	Ripple current 纹波电流
6800	682	16 × 16.5 (12.5 × 16)	1350 (900)								

WV Code μF	35		50		63		100	
	1V		1H		1J		2A	
0.1	0R1			4 × 5.4	1.0	4 × 5.4	1.0	
0.22	R22			4 × 5.4	2.3	4 × 5.4	2.3	
0.33	R33			4 × 5.4	3.5	4 × 5.4	3.5	
0.47	R47			4 × 5.4	5.0	4 × 5.4	5.0	
1	010			4 × 5.4	10	4 × 5.4	10	4 × 5.4
1.5	1R5			4 × 5.4	12	4 × 5.4	12	6.3 × 5.4
2.2	2R2			4 × 5.4	15	4 × 5.4	15	6.3 × 5.4
3.3	3R3	4 × 5.4	18	4 × 5.4	18	5 × 5.4	20	6.3 × 7.7 (6.3 × 5.4)
4.7	4R7	4 × 5.4	20	5 × 5.4 (4 × 5.4)	23 (19)	5 × 5.4	23	6.3 × 7.7 (6.3 × 5.4)
10	100	5 × 5.4 (4 × 5.4)	30 (20)	6.3 × 5.4 (5 × 5.4)	34 (27)	6.3 × 7.7 (6.3 × 5.4)	55 (34)	8 × 10.5 (6.3 × 7.7)
22	220	6.3 × 5.4 (5 × 5.4)	54 (42)	6.3 × 5.4	60	8 × 10.5 (6.3 × 7.7)	140 (70)	10 × 10.5 (8 × 10.5)
33	330	6.3 × 5.4	60	6.3 × 7.7	85	8 × 10.5 (6.3 × 7.7)	160 (85)	10 × 10.5
47	470	6.3 × 5.4 (6.3 × 7.7)	70 (90)	10 × 10.5 (8 × 10.5)	130 (110) (90)	10 × 10.5 (8 × 10.5)	230 (170)	Case size 尺寸

•Case size $\varnothing D \times L$ (mm), ripple current (mA rms) at 105°C, 120Hz •尺寸 $\varnothing D \times L$ (mm), 纹波电流(mA rms) 于 105°C, 120Hz

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT 规格尺寸及最大允许纹波电流

WV Code μF	35		50		63		100		160		
	1V		1H		1J		2A		2C		
22	220								10 × 13.5	50	
33	330								12.5 × 13.5	95	
47	470								12.5 × 13.5 (16 × 16.5)	205 (240)	
56	560	6.3 × 7.7	80	6.3 × 7.7	110	10 × 10.5	250				
68	680	6.3 × 7.7	110	8 × 10.5	170	10 × 10.5	260				
100	101	8 × 10.5 (6.3 × 7.7)	175 (120)	10 × 10.5 (8 × 10.5)	240 (200)	12.5 × 13.5 (10 × 13.5) (10 × 10.5)	380 (290) (280)	12.5 × 13.5	440	16 × 16.5	250
150	151	8 × 10.5	220	10 × 10.5	240	10 × 13.5	310				
220	221	10 × 10.5 (8 × 10.5)	310 (270)	10 × 13.5 (10 × 10.5)	400 (320)	12.5 × 13.5	580	16 × 16.5	700		
330	331	10 × 10.5	350	12.5 × 13.5 (10 × 13.5)	600 (420)	16 × 16.5 (12.5 × 16)	820 (720)				
470	471	12.5 × 13.5 (10 × 13.5) (10 × 10.5)	600 (530) (400)	16 × 16.5 (12.5 × 16)	850 (740)	16 × 16.5	950				
680	681	12.5 × 13.5	750	16 × 16.5	950						
1000	102	16 × 16.5 (12.5 × 16)	1100 (800)							Case size 尺寸	Ripple current 纹波电流

WV Code μF	200		250		350		400		450		
	2D		2E		2V		2G		2W		
3.3	3R3										
4.7	4R7			10 × 13.5		10 × 13.5	85	10 × 13.5	40	10 × 13.5	40
10	100	10 × 13.5	75	10 × 13.5	75	12.5 × 13.5	105	12.5 × 13.5 (12.5 × 13.5)	45 (48)	10 × 13.5 (12.5 × 13.5)	42 (45)
22	220	12.5 × 13.5	105	12.5 × 13.5	105	16 × 16.5	130	16 × 16.5	85	16 × 16.5	85
33	330	12.5 × 13.5	120	16 × 16.5	135						
47	470			16 × 16.5	220						
100	101									Case size 尺寸	Ripple current 纹波电流

•Case size $\varnothing D \times L$ (mm), ripple current (mA rms) at 105°C, 120Hz •尺寸 $\varnothing D \times L$ (mm), 纹波电流(mA rms) 于 105°C, 120Hz

FREQUENCY COEFFICIENT OF ALLOWABLE RIPPLE CURRENT 纹波电流频率补偿系数

Coefficient 系数	Frequency 频率					
		50Hz	120Hz	300Hz	1KHz	10KHz~
$\varnothing 4 \sim \varnothing 10$	0.1 ~ 68μF	0.70	1.00	1.17	1.36	1.50
	100 ~ 3300μF	0.85	1.00	1.08	1.20	1.30
	~ 68μF	0.75	1.00	1.35	1.57	2.00
	100 ~ 680μF	0.80	1.00	1.23	1.34	1.50
$\varnothing 12.5 \sim \varnothing 16$	1000 ~ 6800μF	0.85	1.00	1.10	1.13	1.15

• The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 10°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

• 铝电解电容器由于在纹波电流叠加时自我发热，温度上升而老化，每升温10°C寿命减少一半；要想保持长寿命请在使用过程中降低纹波电流。