

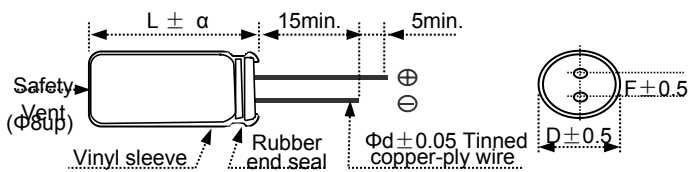
ME Series

- 105°C High-temperature resistance, standard product
- Downsized, quick charge, power adapter
- RoHS2.0 Compliant

◆ 规格表 Specifications

项目 Items	特性参数 Characteristics																																	
使用温度范围 Category	- 40 ~ +105°C (6.3 ~ 100V.DC)	-25 ~ +105°C (160~450V.DC)																																
Temperature Range																																		
额定工作电压范围 Rated Voltage Range	6.3 ~ 450V.DC																																	
静电容量允许偏差 Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)																																	
漏电流 Leakage Current	6.3 ~ 100V.DC	160 ~ 450V.DC																																
	$I \leq 0.01CV$ or $3\mu A$, 二者取大值 (施加额定工作电压2分钟后) Whichever is greater (After 2 minute application of rated voltage) $I \leq 0.02CV + 10(\mu A)$ (施加额定工作电压2分钟后) (After 2 minute application of rated voltage) Note: I=Max,leakage current (μA), C=Nominal capacitance(μF), V=Rated voltage(V) (at 20°C)																																	
损耗角正切值 tanδ Dissipation Factor	<table border="1"> <tr> <td>Rated voltage(V)</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><td>160 ~ 250</td><td>350 ~ 450</td> </tr> <tr> <td>tanδ(Max)</td> <td>0.28</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.08</td><td>0.20</td><td>0.24</td> </tr> </table>												Rated voltage(V)	6.3	10	16	25	35	50	63	100	160 ~ 250	350 ~ 450	tanδ(Max)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.24
	Rated voltage(V)	6.3	10	16	25	35	50	63	100	160 ~ 250	350 ~ 450																							
tanδ(Max)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.24																								
标称容量超过1000 μF,则每增加1000 μF,损耗角正切值增加0.02 For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. Measurement frequency : 120Hz at 20°C																																		
低温特性 Stability at Low Temperature	阻抗比值不得超过下表中列出的值 The impedance ratio shall not exceed the values listed in the below table. (at 120Hz)																																	
	Rated voltage(V)	6.3	10	16	25	35	50	63~100	160 ~ 200	250	350	400	450																					
Impedance Ratio (Max)	Z(-25°C)/Z(+20°C)	≤Φ8	5	4	3	2	2	2	2	3	3	4	4	6																				
		≥Φ10	5	4	3	2	2	2	2	3	3	4	4	6																				
	Z(-40°C)/Z(+20°C)	≤Φ8	10	8	6	4	3	3	3	8	10	8	8	-																				
		≥Φ10	10	8	6	4	3	3	3	4	4	6	6	-																				
耐久性 Endurance	在105°C环境中, 不超过额定电压的范围内叠加最大允许纹波电流, 连续加载2000小时, 经恢复到20°C后, 电容器满足以下各项要求。 The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to rated voltage with the allowable maximum ripple current is applied for 2000 hours at 105°C.																																	
	Capacitance change	≅ ±20% of the initial value																																
	D.F.(tanδ)	≅ 200% of the initial specified value																																
	Leakage current	≅ The initial specified value																																
高温储存特性 Shelf Life	在105°C环境中, 不施加电压条件下储存1000小时, 经恢复到20°C后, 电容器满足以下各项要求。 After storing the capacitors under no load at 105°C for 1000 hours and then restoring to 20°C, they shall meet the specified values listed as below.																																	
	Rated voltage	6.3 ~ 100V.DC						160 ~ 450V.DC																										
	Capacitance change	≅ ±20% of the initial value						≅ ±20% of the initial value																										
	D.F.(tanδ)	≅ 200% of the initial specified value						≅ 200% of the initial specified value																										
	Leakage current	≅ The initial specified value						≅ 200% of the initial specified value																										

◆ 尺寸图 (单位: mm) DIMENSIONS (Unit:mm)



ΦD	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5/0.6	0.6	0.6	0.8	0.8

α	(L < 20) 1.5
	(L ≥ 20) 2.0

◆ 纹波电流修正系数 Rated Ripple Current Coefficient

- 频率系数 Frequei

Frequency(Hz) Cap.(μF)	50	120	300	1k	10k	100k
1.0~4.7	0.65	1.00	1.35	1.75	2.30	2.50
10~68	0.75	1.00	1.25	1.50	1.75	1.80
100~1000	0.80	1.00	1.15	1.30	1.40	1.50

2,200 ~	0.85	1.00	1.03	1.05	1.08	1.08
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ME Series

◆ 标准品一览表 Standard Ratings

WV (Vdc)	Cap (μF)	Case size ΦD*L(mm)	Rated ripple current (mA _{rms}) 105°C/120Hz	
6.3	1000	8X12	390	
	2200	10X16	635	
	3300	10X20	840	
	4700	13X20	1090	
	6800	13X25	1350	
	10000	16X26	1650	
	15000	16X32	1820	
	22000	18X35	2280	
10	220	5X11	155	
	330	6.3X11	210	
	470	6.3X11	250	
	1000	10X13	460	
	2200	10X16	705	
	3300	13X20	1000	
	4700	13X25	1260	
	6800	16X26	1570	
	10000	16X32	1820	
	15000	16X35	2050	
	22000	18X40	2420	
	16	220	6.3X11	190
330		6.3X11	225	
470		8X12	315	
1000		10X13	500	
2200		10X20	710	
3300		13X25	1170	
4700		16X26	1500	
6800		16X26	1600	
10000		16X35	1930	
15000		18X40	2210	
25		100	5X11	125
		220	6.3X11	200
	330	8X12	310	
	470	10X13	380	
	1000	10X16	610	
	2200	13X25	1090	
	3300	16X26	1400	
	4700	16X26	1570	
	6800	16X35	1850	
	10000	18X40	2000	
35	47	5X11	93	
	68	6.3X11	110	
	100	6.3X11	150	
	220	8X12	270	
	330	10X13	350	
	470	10X16	460	
	1000	13X20	810	
	2200	16X26	1260	
	3300	16X32	1500	
	4700	16X35	1780	
6800	18X40	2000		

WV (Vdc)	Cap (μF)	Case size ΦD*L(mm)	Rated ripple current (mA _{rms}) 105°C/120Hz
50	1.0	5X11	13
	2.2	5X11	20
	3.3	5X11	25
	4.7	5X11	30
	10	5X11	46
	22	5X11	68
	33	5X11	90
	47	6.3X11	115
	68	6.3X11	150
	100	8X12	190
	220	10X13	300
	330	10X16	410
	470	10X20	540
	1000	13X25	950
	2200	16X32	1410
	3300	18X35	1770
63	22	5X11	71
	33	6.3X11	100
	47	6.3X11	120
	68	8X12	155
	100	8X12	200
	220	10X16	335
	330	10X20	510
	470	13X20	640
100	1000	16X26	930
	2200	18X35	1650
	1.0	5X11	15
	2.2	5X11	21
	3.3	5X11	29
	4.7	5X11	32
	10	5X11	50
	22	6.3X11	93
	33	8X12	130
	47	8X12	140
	68	10X13	190
	100	10X16	240
160	220	13X20	390
	330	13X25	540
	470	16X26	715
	1000	18X35	960
	10	8X12	41
	22	10X13	92
	33	10X16	125
	47	10X20	150
	68	13X20	250
	100	13X25	310
	220	16X32	540
	330	18X35	705
470	18X40	855	

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◆ 标准品一览表 Standard Ratings

WV (Vdc)	Cap (μ F)	Case size Φ D*L(mm)	Rated ripple current (mA _{rms}) 105°C/120Hz
200	1.0	6.3X11	16
	2.2	6.3X11	25
	3.3	6.3X11	30
	4.7	6.3X11	35
	10	8X12	57
	22	10X16	105
	33	10X20	140
	47	13X20	195
	68	13X25	250
	100	16X26	335
	220	16X35	500
	330	18X40	675
250	3.3	6.3X11	28
	4.7	6.3X11	35
	10	10X13	71
	22	10X20	105
	33	10X20	140
	47	13X20	290
	68	16X26	270
	100	16X26	310
220	18X35	485	
350	2.2	6.3X11	21
	3.3	8X12	30
	4.7	8X12	39
	10	10X13	64
	22	13X20	130
	33	13X25	170
	47	16X26	230
	68	16X26	285
100	18X32	375	

WV (Vdc)	Cap (μ F)	Case size Φ D*L(mm)	Rated ripple current (mA _{rms}) 105°C/120Hz
400	1.0	6.3X11	15
	2.2	8X12	27
	3.3	8X12	34
	4.7	10X13	42
	10	10X16	64
	22	13X25	145
	33	16X26	195
	47	16X26	200
	68	16X32	340
	100	18X35	410
	450	2.2	8X12
3.3		10X13	28
4.7		10X13	32
10		10X20	56
22		13X25	100
33		16X26	125
47		16X32	155
68		18X35	185
100	18X40	200	

※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，中心温度每升温5°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。

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.