

# DM 低漏电标准品

- 极低漏电特性  
Extremely low leakage current
- 适用于电视机频道转换或小信号输入回路  
Used in TVs frequency channel conversion or weak signal import loop circuits.
- ROHS 指令已对应完毕。  
Adapted to the ROHS directive

## 主要技术性能 Specifications

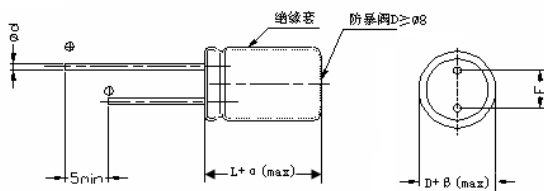
项目 Item	特性 Performance Characteristics																											
使用温度范围 Operating temperature range	-40 ~ +85°C																											
额定电压范围 Rated voltage range	6.3 ~ 100 V																											
标称电容量范围 Nominal capacitance range	0.1 ~ 2200μF																											
标称电容量允许偏差 Capacitance tolerance	± 20% (120Hz, +20°C)																											
漏电流 Leakage current	$I \leq 0.002CV$ 或 $0.4(\mu A)$ 2分钟(at 20°C, after 2 minutes) 取较大者 (whichever is greater)																											
损耗角正切值 (tg δ) Dissipation factor (+20°C, 120Hz)	<table border="1"> <thead> <tr> <th><math>U_R</math> (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>tg δ</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>0.12</td> <td>0.10</td> </tr> </tbody> </table> <p>容量大于 1000μF 者, 每增加 1000μF, 其损耗角正切值增加 0.02 When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase.</p>	$U_R$ (V)	6.3	10	16	25	35	50	63	100	tg δ	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.10									
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Z-40°C / +20°C	8	6	4	4	3	3	3	3																				
耐久性 Load life	<p>+85°C加额定电压 2000 小时, 恢复 16 小时后: After applying rated voltage for 2000 hours at +85°C and then resumed 16 hours:</p> <p>电容量变化率 Capacitance change : ±20%初始测量值以内 Initial measured value 漏 电 流 Leakage current : ≤初始规定值 Initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 2times Initial specified value</p>																											
高温贮存 Shelf life	<p>+85°C, 1000 小时贮存后, 加额定工作电压处理 30 分钟, 恢复 16 小时后: After storage for 1000 hours at +85°C, <math>U_R</math> to be applied for 30 minutes and then resumed 16 hours</p> <p>电容量变化率 Capacitance change : ±20%初始测量值以内 Initial measured value 漏 电 流 Leakage current : ≤初始规定值 Initial specified value 损耗角正切值 Dissipation factor : ≤2 倍初始规定值 2times Initial specified value</p>																											

## 频率修正系数 Frequency coefficient

F(Hz) CAP(μF)	60	120	1K	≥10k
0.1~22	0.8	1	1.5	1.7
33~100	0.8	1	1.4	1.5
220~2200	0.8	1	1.3	1.35

## 外形图及尺寸表 Case size table

单位Unit: mm



D	5	6.3	8	10	12.5	16
F	2.0	2.5	3.5	5.0		7.5
d	0.5		0.5-0.6	0.6		0.8

α MAX	( L < 20 ) 1.5
	( L ≥ 20 ) 2.0

β MAX	( D < 20 ) 0.5
	( D ≥ 20 ) 1.0

## 尺寸 DIMENSIONS

CAP(μF) \ WV		6.3V(0J)		10V(1A)		16V(1C)		25V(1E)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7	4R7							5×11	38
6.8	6R8					5×11	36	5×11	47
10	100					5×11	43	5×11	52
15	150					5×11	48	5×11	58
22	220			5×11	52	5×11	62	5×11	68
33	330			5×11	68	5×11	70	5×11	78
47	470			5×11	76	5×11	105	6.3×11	120
100	101	5×11	75	5×11	105	6.3×11	140	8×11.5	150
220	221	6.3×11	135	8×11.5	195	8×11.5	225	10×12.5	255
330	331	6.3×11	165	8×11.5	260	8×11.5	270	10×12.5	355
470	471	8×11.5	260	8×11.5	320	10×12.5	410	10×20	520
1000	102	10×12.5	390	10×20	680	12.5×20	760	12.5×25	1020
2200	222	12.5×20	670	12.5×20	860	16×25	1200		

CAP(μF) \ WV		35V(1V)		50V(1H)		63V(1J)		100V(2A)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1	0R1			5×11	8	5×11	8		
0.22	R22			5×11	9	5×11	9		
0.47	R47			5×11	10	5×11	10		
1.0	010			5×11	17	5×11	17		
2.2	2R2			5×11	26	5×11	26	6.3×11	30
3.3	3R3			5×11	30	5×11	32	6.3×11	36
4.7	4R7	5×11	34	5×11	36	5×11	40	6.3×11	45
6.8	6R8	5×11	41	5×11	43	5×11	45	6.3×11	58
10	100	5×11	48	5×11	52	6.3×11	58	8×11.5	65
22	220	6.3×11	72	6.3×11	78	6.3×11	95	8×11.5	105
33	330	6.3×11	83	6.3×11	100	8×11.5	110	10×12.5	125
47	470	6.3×11	125	8×11.5	140	8×11.5	152	10×12.5	160
68	680	6.3×11	140	8×11.5	145	10×12.5	160	10×16	180
100	101	8×11.5	185	10×12.5	220	10×16	260	12.5×20	380
220	221	10×12.5	330	10×20	380	12.5×20	440		
330	331	10×16	440	10×20	460	12.5×25	600		
470	471	12.5×20	590	12.5×25	710				
680	681	12.5×20	620						

Size  $\phi D \times L$ (mm)

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