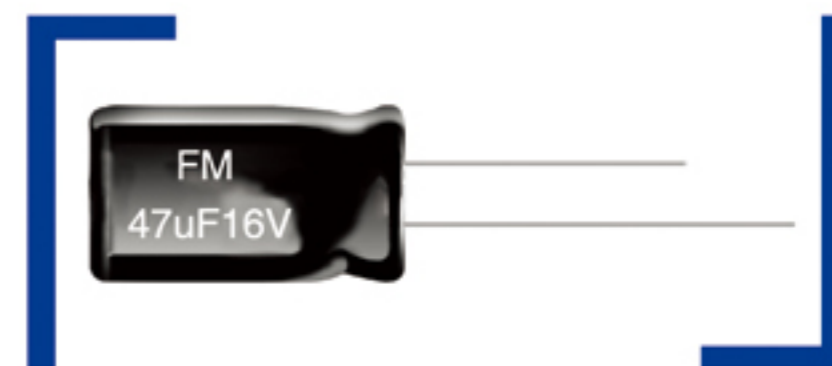


# FM

## 105℃ 低漏电标准品



- ◎ 极低漏电特性，标准尺寸。  
Extremely low leakage current, standard size.
- ◎ 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.

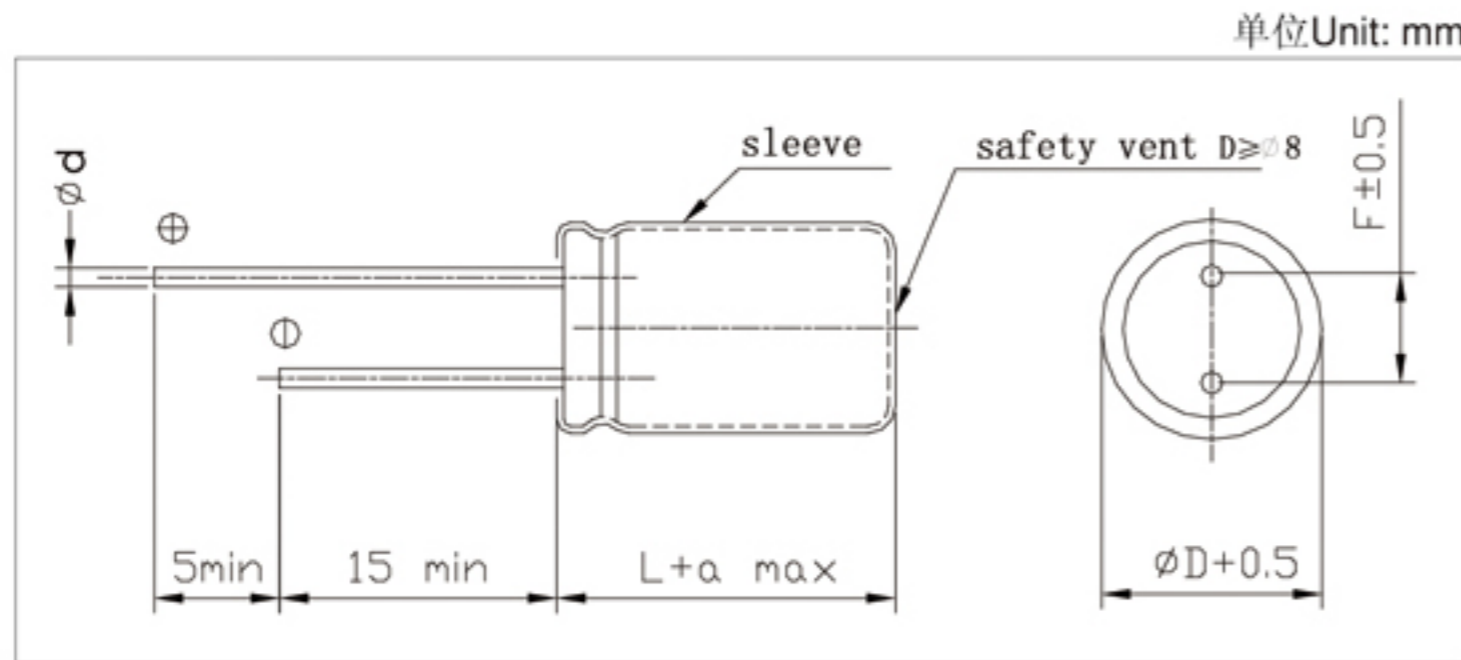
### ■ 主要技术性能 Specifications

项目 Item	特性 Performance Characteristics																											
使用温度范围 Operating temperature range	-40 ~ +105℃																											
额定电压范围 Rated voltage range	6.3 ~ 100 V																											
标称容量范围 Nominal capacitance range	0.1~ 2200 μ F																											
标称容量允许偏差 Capacitance tolerance	±20% (120Hz, +20℃)																											
漏电流 Leakage current	$I \leq 0.002CV$ 或 $0.4(\mu A)$ 2分钟(at 20℃, after 2 minutes) 取较大者 (whichever is greater)																											
损耗角正切值 (tg δ) Dissipation factor (+20℃, 120Hz)	<table border="1"> <thead> <tr> <th>U<sub>R</sub> (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1000 μ F者，每增加1000 μ F，其损耗角正切值增加0.02 When nominal capacitance exceeds 1000 μ F, add 0.02 to the value above for each 1000 μ F increase.</p>	U <sub>R</sub> (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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温度特性 Temperature characteristics (Impedance ratio at 120Hz)	<table border="1"> <thead> <tr> <th>U<sub>R</sub> (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>Z-25℃ / +20℃</td> <td>4</td> <td>3</td> <td>2</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> <td>1.5</td> </tr> <tr> <td>Z-40℃ / +20℃</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	U <sub>R</sub> (V)	6.3	10	16	25	35	50	63	100	Z-25℃ / +20℃	4	3	2	1.5	1.5	1.5	1.5	1.5	Z-40℃ / +20℃	8	6	4	4	3	3	3	3
U <sub>R</sub> (V)	6.3	10	16	25	35	50	63	100																				
Z-25℃ / +20℃	4	3	2	1.5	1.5	1.5	1.5	1.5																				
Z-40℃ / +20℃	8	6	4	4	3	3	3	3																				
耐久性 Load life	<p>+105℃加额定电压2000小时，恢复16小时后： After applying rated voltage for 2000 hours at +105℃ and then resumed 16 hours:                      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>+105℃, 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 +105℃, U<sub>R</sub> to be applied for 30 minutes and then resumed 16 hours:                      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

CAP(μF) \ F(Hz)	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



D	5	6.3	8	10	12.5
F	2.0	2.5	3.5	5.0	
d	0.5		0.5, 0.6		0.6

α MAX	( L < 20 ) 1.5
	( L ≥ 20 ) 2.0

■ 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							5x11	32
10	100					5x11	39	5x11	43
22	220	5x11	36	5x11	50	5x11	62	5x11	65
33	330	5x11	44	5x11	66	5x11	68	5x11	76
47	470	5x11	53	5x11	75	5x11	105	6.3x11	116
100	101	5x11	74	5x11	104	6.3x11	138	8x11.5	149
220	221	6.3x11	131	8x11.5	193	8x11.5	220	10x12.5	246
330	331	6.3x11	161	8x11.5	256	8x11.5	268	10x12.5	352
470	471	8x11.5	242	8x11.5	319	10x12.5	407	10x16	484
1000	102	10x12.5	390	10x16	605	10x20	704	12.5x20	847
2200	222	12.5x20	665	12.5x20	860	12.5x25	890		

CAP (μF) \ WV		35V(1V)		50V(1H)		63V(1J)		100V(2A)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1	0R1			5x11	6	5x11	6		
0.22	R22			5x11	8	5x11	8		
0.33	R33			5x11	10	5x11	10		
0.47	R47			5x11	12	5x11	12		
1.0	010			5x11	17	5x11	17		
2.2	2R2			5x11	24	5x11	24	5x11	26
3.3	3R3			5x11	29	5x11	32	5x11	32
4.7	4R7	5x11	34	5x11	36	5x11	39	5x11	40
10	100	5x11	48	5x11	52	6.3x11	58	6.3x11	52
22	220	6.3x11	71	6.3x11	77	6.3x11	94	8x11.5	130
33	330	6.3x11	83	6.3x11	99	8x11.5	110	10x12.5	140
47	470	6.3x11	125	8x11.5	138	8x11.5	152	10x16	175
100	101	8x11.5	187	10x12.5	217	10x16	260	12.5x20	300
220	221	10x12.5	330	10x20	380	12.5x20	440		
330	331	10x16	440	12.5x20	506	12.5x25	594		
470	471	12.5x20	590	12.5x25	705				
1000	102	12.5x25	1012						

Size φD×L(mm)

Maximum Allowable Ripple Current (mA rms) at 105°C 120Hz