

GM 标准品

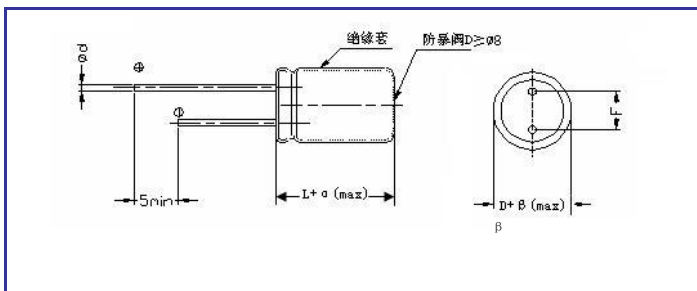
- 85℃, 2000 小时
85℃, 2000hours
- 适用于开关电源、适配器、彩电、音响、空调等电子线路中
Used in Smpls、Adapter、color-TV, audio sets, air conditioning circuits etc.
- ROHS 指令已对应完毕。
Adapted to the ROHS directive.

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℃	-25 ~ +85℃																																											
额定电压范围 Rated voltage range	6.3 ~ 100V	160 ~ 500V																																											
标称电容量范围 Nominal capacitance range	0.1 ~ 33000μF																																												
标称电容量允许偏差 Capacitance tolerance	± 20% (120Hz, +20℃)																																												
漏电流 Leakage current	I ≤ 0.01CV (μA) 或 3μA 2 分钟 取较大者 (at 20℃, after 2 minutes) (Whichever is greater)	I ≤ 0.03CV (μA) + 10μA 2 分钟(2 minute)																																											
损耗角正切值 (tg δ) Dissipation factor (+20℃, 120Hz)	<table border="1"> <tr> <td>U_R (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> </tr> <tr> <td>tg δ</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>0.10</td> <td>0.08</td> </tr> </table> <table border="1"> <tr> <td>U_R (V)</td> <td>160</td> <td>200</td> <td>250</td> <td>400</td> <td>420</td> <td>450</td> <td>500</td> </tr> <tr> <td>tg δ</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.24</td> </tr> </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	0.24	0.20	0.16	0.14	0.12	0.10	0.10	0.08	U _R (V)	160	200	250	400	420	450	500	tg δ	0.20	0.20	0.20	0.20	0.20	0.20	0.24									
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温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <tr> <td>U_R (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> </tr> <tr> <td>Z-25℃ / Z+20℃</td> <td>5</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z-40℃ / Z+20℃</td> <td>10</td> <td>8</td> <td>6</td> <td>5</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table> <table border="1"> <tr> <td>U_R (V)</td> <td>160</td> <td>200</td> <td>250</td> <td>400</td> <td>420</td> <td>450</td> <td>500</td> </tr> <tr> <td>Z-25℃ / Z+20℃</td> <td>3</td> <td>3</td> <td>4</td> <td>6</td> <td>7</td> <td>7</td> <td>8</td> </tr> </table> <p>Z-25℃ / Z+20℃, 容量大于 1000μF 者, 每增加 1000μF 阻抗比增加 0.5 when nominal capacitance exceeds 1000μF, Add 0.5 to the value of Z-25℃ / Z+20℃ above for each 1000μF increase. Z-40℃ / Z+20℃, 容量大于 1000μF 者, 每增加 1000μF 阻抗比增加 1.0 when nominal capacitance exceeds 1000μF, Add 1.0 to the value of Z-40℃ / Z+20℃ above for each 1000μF increase.</p>		U _R (V)	6.3	10	16	25	35	50	63	100	Z-25℃ / Z+20℃	5	4	3	2	2	2	2	2	Z-40℃ / Z+20℃	10	8	6	5	3	3	3	3	U _R (V)	160	200	250	400	420	450	500	Z-25℃ / Z+20℃	3	3	4	6	7	7	8
U _R (V)	6.3	10	16	25	35	50	63	100																																					
Z-25℃ / Z+20℃	5	4	3	2	2	2	2	2																																					
Z-40℃ / Z+20℃	10	8	6	5	3	3	3	3																																					
U _R (V)	160	200	250	400	420	450	500																																						
Z-25℃ / Z+20℃	3	3	4	6	7	7	8																																						
耐久性 Load life	<p>+85℃加额定电压 2000 小时, 恢复 16 小时后: After applying rated voltage for 2000 hours at +85℃ and then resumed for 16 hours:</p> <p>电容量变化率 Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value 漏 电 流 Leakage current : ≤初始规定值 ≤The initial specified value 损耗角正切值 Dissipation factor : ≤2 倍初始规定值 ≤2times of the initial specified value</p>																																												
高温贮存 Shelf life	<p>+85℃, 1000 小时贮存后, 恢复 16 小时后: After storage for 1000 hours at +85℃ and then resumed for 16 hours</p> <p>电容量变化率 Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value 漏 电 流 Leakage current : ≤2 倍初始规定值 ≤2times of the initial specified value 损耗角正切值 Dissipation factor : ≤2 倍初始规定值 ≤2times of the initial specified value</p>																																												

外形图及尺寸表 Case size table

单位 Unit:
mm



D	5	6.3	8	10	12.5	16~18	22
F	2	2.5	3.5	5.0		7.5	10
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

WV		63V(1J)		100V(2A)		160V(2C)		200V(2D)		250V(2E)		350V(2V)	
CAP(μF)		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47	R47			5x11	10					6.3x11	10	6.3x11	12
1	010			5x11	25			6.3x11	18	6.3x11	18	6.3x11	20
2.2	2R2	5x11	28	5x11	40	6.3x11	30	6.3x11	30	6.3x11	32	6.3x11	38
3.3	3R3			5x11	45	6.3x11	38	6.3x11	38	6.3x11	40	8x11.5	55
4.7	4R7			5x11	55	6.3x11	56	6.3x11	56	6.3x11	58	8x11.5	70
6.8	6R8			5x11	65	6.3x11	63	8x11.5	73	8x11.5	75	8x14	83
10	100	5x11	80	5x11	80	8x11.5	90	8x11.5	95	10x12.5	105	10x16	120
22	220	5x11	115	6.3x11	135	10x16	172	10x16	175	10x20	195	12.5x20	210
				8x11.5	155								
33	330	6.3x11	160	8x11.5	190	10x20	230	10x20	240	12.5x20	260	12.5x25	300
47	470	6.3x11	190	10x12.5	260	10x20	285	12.5x20	310	12.5x20	310	16x25	390
68	680			10x16	290	12.5x20	370	12.5x25	410	16x20	430	16x30	500
100	101	8x11.5	325	10x20	455	12.5x25	490	16x20	520	16x25	580	16x35	640
	120	121		16x25	850	16x20	560	16x25	630	16x30	680		
220	221	10x16	615	12.5x20	745	16x30	900	16x35	960	18x35	1020		
330	331	10x20	825	12.5x25	990	18x30	1150	18x35	1250				
470	471	12.5x20	1155	16x25	1395	18x35	1460	18x45	1610				
680	681	12.5x25	1515			18x45	1600						
1000	102	16x25	2040	18x35	1995								
2200	222	18x35	2300										
3300	332	18x40	2500										
4700	472	22x50	3400										
WV		400V(2G)		450V(2W)		500V(2H)							
CAP(μF)		Size	Ripple	Size	Ripple	Size	Ripple						
0.47	R47	6.3x11	12	6.3x11	12								
1	010	6.3x11	20	6.3x11	20	6.3x11	20						
2.2	2R2	6.3x11	38	8x11.5	38	8x11.5	34						
3.3	3R3	8x11.5	55	8x11.5	50	10x12.5	50						
4.7	4R7	8x11.5	70	10x12.5	70	10x16	68						
		10x8	65										
5.6	5R6	10x8	71										
6.8	6R8	8x12	83	10x12.5	80	10x20	80						
		10x8.5	73										
10	100	10x16	120	10x16	105	12.5x20	105						
22	220	12.5x20	210	12.5x25	210	16x20	195						
33	330	12.5x25	300	16x25	300	16x25	260						
47	470	16x25	390	16x30	380	16x30	320						
68	680	16x30	500	16x35	480	18x35	430						
82	820	16x30	580	18x30	560	18x40	500						
100	101	16x35	640	18x35	640	18x45	590						
120	121	16x40	750	18x40	720								
150	151	18x40	860	18x45	850								

