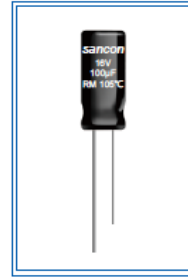


RM 高纹波, 极低阻抗品 (CD287M)

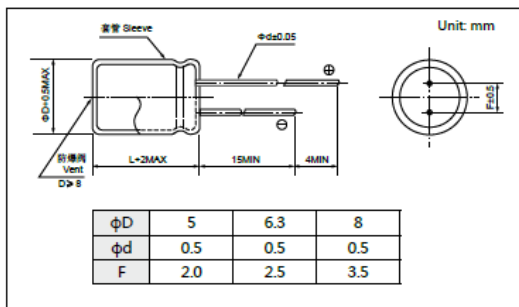
- 保证寿命: 105°C 10000 小时, Endurance: 105°C 10000 hrs.
- 小型化, 长寿命, Miniaturized, Long Life.
- 符合 RoHS, RoHS Compliant.



主要技术性能 Specifications

项目 Item	特性 Performance Characteristics																
工作温度范围 Operating Temperature Range	-25~+105°C																
额定电压范围 Rated Voltage Range	10~100V																
标称电容容量范围 Nominal Capacitance Range	0.47~330µF																
标称电容容量允许偏差 Capacitance Tolerance	±20% (M)																
漏电流 Leakage Current	$1 \leq 0.01CV$ 或者 $3\mu A$ 中任意一个较大值 $1 \leq 0.01CV$ or $3\mu A$, Whichever is greater I: 漏电流 (µA), C: 静电容量 (µF) V: 额定电压 (V) (20°C, 2分钟) Where, I: Max. leakage current(µA), C: Nominal capacitance(µF), V: Rated voltage(V) (at 20°C, after 2 minutes)																
损耗角正切值 (tgδ) Dissipation Factor (+20°C, 120Hz)	<table border="1"> <thead> <tr> <th>$U_n(V)$</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>tgδ</td> <td>0.45</td> <td>0.35</td> <td>0.30</td> <td>0.22</td> <td>0.19</td> <td>0.17</td> <td>0.15</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>	$U_n(V)$	10	16	25	35	50	63	100	tgδ	0.45	0.35	0.30	0.22	0.19	0.17	0.15
$U_n(V)$	10	16	25	35	50	63	100										
tgδ	0.45	0.35	0.30	0.22	0.19	0.17	0.15										
温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	<table border="1"> <thead> <tr> <th>$U_n(V)$</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°C / +20°C</td> <td>8</td> <td>6</td> <td>4</td> <td></td> <td></td> <td>3</td> <td></td> </tr> </tbody> </table>	$U_n(V)$	10	16	25	35	50	63	100	Z-25°C / +20°C	8	6	4			3	
$U_n(V)$	10	16	25	35	50	63	100										
Z-25°C / +20°C	8	6	4			3											
耐久性 Load Life	<p>在 105°C 环境中, 连续加载额定直流电压与额定纹波电流 (所加电压峰值不超过额定工作电压) 规定时间后, 待温度恢复到 20°C 进行测量时, 应满足以下要求。 The following specification shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for the specified period of time at 105°C</p> <p>额定电压 V_{dc}: 10~100V_{dc} 电容量变化率 Capacitance change: ±25% 初始测量值以内 ±25% 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: ≤ 3 倍初始规定值 ≤ 300% of the initial specified value</p>																
高温贮存 Shelf Life	<p>在 105°C 环境中, 无负荷放置 1000 小时后, 待温度恢复到 20°C 进行测量时, 应满足以下要求。 The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied. Capacitance change: ±20% of the initial measured value 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 ≤ 200% of the initial specified value 损耗角正切值 Dissipation factor: ≤ 2 倍初始规定值 ≤ 200% of the initial specified value</p>																

外形图及尺寸 Diagram of Dimensions



纹波电流修正系数 Multiplier for Ripple Current

频率系数 Frequency coefficient		120	1K	10k	100k
Cap(µF)	Frequency (Hz)				
	1.0~4.7	0.42	0.60	0.80	1.00
	10~33	0.55	0.75	0.90	1.00
	47~330	0.70	0.85	0.95	1.00

额定值标准 Standard Size

WV (V _a)	Capacitance (μ F)	Size Φ D×L (mm)	tan δ	Rated ripple current (mA _{rms}) 105°C /100kHz
10 (1A)	100	5×11	0.45	130
	220	6.3×12	0.45	210
	330	8×12	0.45	330
16 (1C)	47	5×11	0.35	130
	100	6.3×12	0.35	210
	220	8×12	0.35	330
25 (1E)	33	5×11	0.30	130
	47	5×12	0.30	130
	100	6.3×12	0.30	210
35 (1V)	33	5×11	0.22	130
	47	6.3×12	0.22	210
	100	8×12	0.22	330
50 (1H)	0.47	5×11	0.19	12
	1	5×11	0.19	25
	2.2	5×11	0.19	35
	3.3	5×11	0.19	70
	4.7	5×11	0.19	80
	10	5×11	0.19	90
	22	5×12	0.19	110
	33	6.3×12	0.19	190
	47	6.3×12	0.19	190
100	8×12	0.19	270	
63 (1J)	10	5×11	0.17	80
	22	6.3×12	0.17	170
	33	6.3×12	0.17	170
	47	8×12	0.17	240
100 (2A)	0.47	5×11	0.15	20
	1	5×11	0.15	40
	2.2	5×11	0.15	50
	3.3	5×11	0.15	60
	4.7	5×12	0.15	70
	10	6.3×12	0.15	150
	22	8×12	0.15	230

可根据客户要求定制产品 Customer products are available on request.