

RL

贴片式铝电解电容



- A. 工作温度范围宽 (-55°C~+105°C)
Operating over wide temperature range
- B. 适用于高密度表面组装
Available for high density surface mounting
- C. 适用于再流焊
Reflow soldering is available
- D. 性能稳定、可靠性高
High stability and reliability
- E. ROHS.REACH指令已对应完毕
Adapted to the ROHS .REACH directive

主要技能性能 Specifications

使用温度范围 Operating temperature range	-55°C~+105°C																					
额定电压范围 Reted voltage range	6.3V~50V																					
标称电容量范围 Nominal capactitance range	1~1000μF																					
标称电容量允许偏差 Capacitance tolerance	+20% (+20°C, 120Hz)																					
漏电流 (20°C) Leakage current	1≤0.01CRV _R or 3(μA),取较大者 (2分钟) CR:标称电容量 (μF) UR:额定电压 (V) 1≤0.01CRV _R or 3(μA) Whichever is greater(at20°C, after 2 minutes) CR: Nominal Capacitance(μF) UR: Rated voltages (V)																					
损耗角正切值 Dissipation factor (120Hz 20°C)	<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> </tr> <tr> <td>tgδ</td> <td>0.26</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	tgδ	0.26	0.20	0.16	0.14	0.12	0.10							
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耐久性 Load Life	<p>+105°C施加额定电压5000小时后 (∅D=4, 5和) 6.3为3000小时), 电容器应满足以下要求: After 5000 hours (3000 hours for ∅D=4, 5 and 6.3). application of rated volatge at 105°C, the capacitor shall meet the following requirement.</p> <table border="1"> <tr> <td>电容量变化率 Capacitance change</td> <td>±30%初始值内 Within 30% of initial value</td> </tr> <tr> <td>损耗角正切值 Dissipation factor</td> <td>≤300%初始规定值 300% or less of initial specified value</td> </tr> <tr> <td>漏电流值 Leakage</td> <td>≤初始规定值 Not more than the initial specified value</td> </tr> </table>	电容量变化率 Capacitance change	±30%初始值内 Within 30% of initial value	损耗角正切值 Dissipation factor	≤300%初始规定值 300% or less of initial specified value	漏电流值 Leakage	≤初始规定值 Not more than the initial specified value															
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高温贮存 shelf life	<p>+105°C贮存1000小时后, 加额定工作电压30分钟, 电容器应满足以上耐久性要求: After storage for 1000 hours at +105°C, UR to be applied for 30 minutes, the capacitors shall meet the requirement of load life above</p>																					
低温特性 low temperature stability 阻抗比 Impedance ratio (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> </tr> <tr> <td>Z_{-25°C}/Z_{+20°C}</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z_{-40°C}/Z_{+20°C}</td> <td>10</td> <td>7</td> <td>5</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table>	U _R (V)	6.3	10	16	25	35	50	Z _{-25°C} /Z _{+20°C}	4	3	2	2	2	2	Z _{-40°C} /Z _{+20°C}	10	7	5	3	3	3
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耐焊接热 Resistance to Soldering Heat	<p>在250°C的条件下, 电容器应在热板上保持30秒, 然后从热板上取出电容器, 让其在温度下恢复, 电容器应满足以下要求: The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds.After removing from the hot plate and restored room temperature , then meet the following requirement:</p> <table border="1"> <tr> <td>电容量变化率 Capacitance change</td> <td>±10%初始值内 Within 10% of initial value</td> </tr> <tr> <td>损耗角正切 Dissipation factor</td> <td>≤初始规定值 Not more than the initial specified value</td> </tr> <tr> <td>漏电流 Leakage Current</td> <td>≤初始规定值 Not more than the initial specified value</td> </tr> </table>	电容量变化率 Capacitance change	±10%初始值内 Within 10% of initial value	损耗角正切 Dissipation factor	≤初始规定值 Not more than the initial specified value	漏电流 Leakage Current	≤初始规定值 Not more than the initial specified value															
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外形图及尺寸表 Case Size Table



	4*5.4	5*5.8	6.3*5.8	6.3*7.7	8*10.5	10*10.5
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.3	4.5
L	5.8	5.8	5.8	7.7	10.5	10.5
H	0.5~0.8				0.8~1.1	

标称电容量、额定电压、额定纹波电流与外形尺寸对应表
Nominal capacitance, rated voltage, rated ripple current and case size table

V μF	6.3		10		16		25		35		50	
	D×L MM	I~mA	D×L MM	I~mA	D×L MM	I~mA	D×L MM	I~mA	D×L MM	I~mA	D×L MM	I~mA
1.0											4*5.8	8
2.2											4*5.8	12
3.3											4*5.8	17
4.7									4*5.8	20	5*5.8	21
10					4*5.8	20	5*5.8	30	5*5.8	30	6.3*5.8	35
22			5*5.8	30	5*5.8	35	6.3*5.8	45	6.3*5.8	50	6.3*7.7	52
33	5*5.8	40	5*5.8	40	6.3*5.8	50	6.3*5.8	50	6.3*7.7	62	8*10.5	80
47	5*5.8	45	6.3*5.8	55	6.3*5.8	60	6.3*7.7	65	8*10.5	100	8*10.8	95
100	6.3*5.8	70	6.3*5.8	75	6.3*7.7	90	8*10.5	140	10*10.5	260	10*10.5	99
220	6.3*7.7	105	8*10.5	170	10*10.5	230	10*10.5	230	10*10.5	230		
330	8*10.5	245	10*10.5	245	10*10.5	240	10*10.5	250				
470	10*10.5	350	10*10.5	350	10*10.5	360						
1000	10*10.5	350										

1~ = Rated ripple current (mA)(105°C, 120Hz) 1~ = 额定纹波电流 (mA)(105°C, 120Hz)

额定纹波电流的频率系数
Frequency coefficient of rated ripple current

频率 Frequency	50Hz	120Hz	300Hz	1KHz	≥10KHz
系数 Coefficient	0.70	1.00	1.17	1.36	1.50