

RZ 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																					
标称容量范围 Nominal capactitance range	1~1000μF																					
标称容量允许偏差 Capacitance tolerance	+20% (+20°C, 120Hz)																					
漏电流 (20°C) Leakage current	1≤0.01CRVR or 3(μA),取较大者 (2分钟) CR:标称容量 (μF) UR:额定电压 (V) 1≤0.01CRVR 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2000小时后，电容器应满足以下要求: After 2000 hours applying of rated voltage at 105°C, the capacitors Shall meet the following requirements.</p> <table border="1"> <tr> <td>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>	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	+105°C贮存1000小时后，电容器应满足以上耐久性要求 After storage for 1000 hours at + 105°C,the capacitors shall meet the requirement of load life above																					
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>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z_{-40°C}/Z_{+20°C}</td> <td>4</td> <td>4</td> <td>3</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}	2	2	2	2	2	2	Z _{-40°C} /Z _{+20°C}	4	4	3	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>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>	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*5.4	6.3*5.4	6.3*7.7	8*6.5	8*10.5	10*10.5
A	3.0	2.1	2.4	2.4	2.9	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3
E	1.0	1.3	2.2	2.2	2.3	3.1	4.5
L	5.4	5.4	5.4	7.7	6.5	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	Impedance Ω	I~mA	D×L MM	Impedance Ω	I~mA	D×L MM	Impedance Ω	I~mA	D×L MM	Impedance Ω	I~mA	D×L MM	Impedance Ω	I~mA	D×L MM	Impedance Ω	I~mA
1.0																4*5.4	5.0	30
2.2																4*5.4	5.0	30
3.3																4*5.4	5.0	30
4.7													4*5.4	3.0	60	5*5.4	3.0	50
10										4*5.4	3.0	60	5*5.4	1.8	95	6.3*5.4	2.0	70
22				4*5.4	3.0	60	5*5.4	1.8	95	5*5.4	1.8	95	5*5.4	1.8	95	6.3*5.4	2.0	70
33	5*5.4	1.8	95	5*5.4	1.8	95	6.3*5.4	1.0	140	6.3*5.4	1.0	140	6.3*5.4	1.0	140	6.3*7.7	1.4	120
47	5*5.4	1.8	95	6.3*5.4	1.0	140	6.3*5.4	1.0	140	6.3*5.4	1.0	140	6.3*5.4	1.0	140	6.3*7.7	1.4	120
100	6.3*5.4	1.0	140	6.3*5.4	1.0	140	6.3*5.4	1.0	140	6.3*7.7	0.7	220	8*10.5	0.3	300	8*10.5	0.6	300
220	6.3*5.4	1.0	140	6.3*7.7	0.7	220	6.3*7.7	0.7	220	8*10.5	0.3	450	8*10.5	0.3	450	10*10.5	0.3	500
330	6.3*7.7	0.7	220	8*10.5	0.3	450	8*10.5	0.3	450	8*10.5	0.3	450	10*10.5	0.15	650			
470	8*10.5	0.3	450	8*10.5	0.3	450	8*10.5	0.3	450	10*10.5	0.15	650						
1000	8*10.5	0.3	450	10*10.5	0.15	650												

1~ = Rated ripple current (mA)(105°C, 100Hz) 1~ = 额定纹波电流 (mA)(105°C, 100Hz)
20°C 100 KHz时的电阻 (Ω) MAX

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	0.64	0.50	0.64	0.83	1.00