

SLZ SERIES (7mmL高, Low Leakage Current 低漏電)

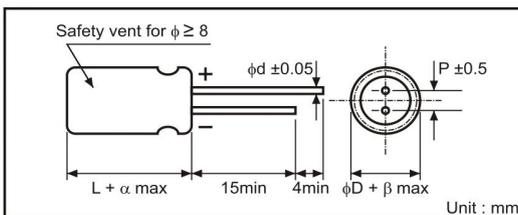
- Extremely low and stable leakage current characteristics.
- Close capacitance tolerance $\pm 20\%$ ($\pm 10\%$).



◆ SPECIFICATIONS

Item	Performance Characteristics																						
Operating temperature range	-40 to +105°C																						
Rated Working Voltage Range	6.3 to 50V																						
Nominal Capacitance Range	0.1 to 220 μ F																						
Capacitance Tolerance	± 20 (120Hz, +20°C)																						
Leakage Current	$I \leq 0.002CV$ or $0.8(\mu A)$ after 2 minutes whichever is greater measured with rated working voltage applied at +20°C																						
Dissipation Factor $\tan \delta$ (120Hz, +20°C)	<table border="1"> <thead> <tr> <th>Working Voltage(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <tr> <td>$\tan \delta$(max)</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> </tr> </tbody> </table>		Working Voltage(V)	6.3	10	16	25	35	50	$\tan \delta$ (max)	0.24	0.20	0.16	0.14	0.12	0.10							
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Low Temperature Characteristics	Impedance ratio max at 120Hz <table border="1"> <thead> <tr> <th>Working Voltage(V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> </tr> </thead> <tbody> <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>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table>		Working Voltage(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	8	6	4	4	3	3
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Z-25°C/Z+20°C	4	3	2	2	2	2																	
Z-40°C/Z+20°C	8	6	4	4	3	3																	
High Temperature Loading	Test conditions Duration : 1000 hours Ambient temp : +105°C Applied voltage: Rated DC working voltage	Post test requirements at +20°C Leakage current : \leq Initial specified value Cap . Change : $\leq \pm 20\%$ of Initial measured value $\tan \delta$: $\leq 200\%$ of Initial specified value																					
Shelf Life	Test conditions Duration : 500 hours Ambient temp : +105°C Applied voltage: (None)	Post test requirements at +20°C Leakage current : \leq Initial specified value Cap . Change : $\leq \pm 20\%$ of Initial measured value $\tan \delta$: $\leq 200\%$ of Initial specified value																					

◆ CASE SIZE TABLE



ΦD	4	5	6.3	8
P	1.5	2.0	2.5	3.5
Φd	0.45	0.45	0.45	0.45
α	1.5			
β	0.5			

◆ RIPPLE CURRENT MULTIPLIER

(1) Frequency Coefficient

cap(μ f)	50	120	300	1k	10k~
≤ 47	0.75	1.00	1.35	1.57	2.00
56~220	0.80	1.00	1.23	1.34	1.50

(2) Temperature Coefficient

Temperatu	-55	60	70	85	105
FACTOR	2.23	2.17	2.00	1.75	1.00

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◆ DIMENSIONS

Voltage	6.3V		10V		16V		25V	
Cap(μF)	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1								
0.22								
0.33								
0.47								
1								
2.2								
3.3								
4.7								
10					4*7	19	5*7	22
22	4*7	22	5*7	25	5*7	29	6.3*7	34
33	5*7	28	5*7	31	6.3*7	35	6.3*7	42
47	5*7	33	6.3*7	39	6.3*7	45	8*7	52
100	6.3*7	51	8*7	64	8*7	71	8*7	110
220	8*7	86	8*7	110	8*7	115		

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

Case Size ΦD X L (mm)

Voltage	35V		50V					
Cap(μF)	Size	Ripple	Size	Ripple				
0.1			4*7	7.0				
0.22			4*7	1.6				
0.33			4*7	2.3				
0.47			4*7	3.3				
1			4*7	6.6				
2.2			4*7	13				
3.3			4*7	16				
4.7	4*7	16	5*7	19				
10	5*7	24	6.3*7	29				
22	6.3*7	38	8*7	43				
33	8*7	48						
47								
100								
220								

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

Case Size ΦD X L (mm)