

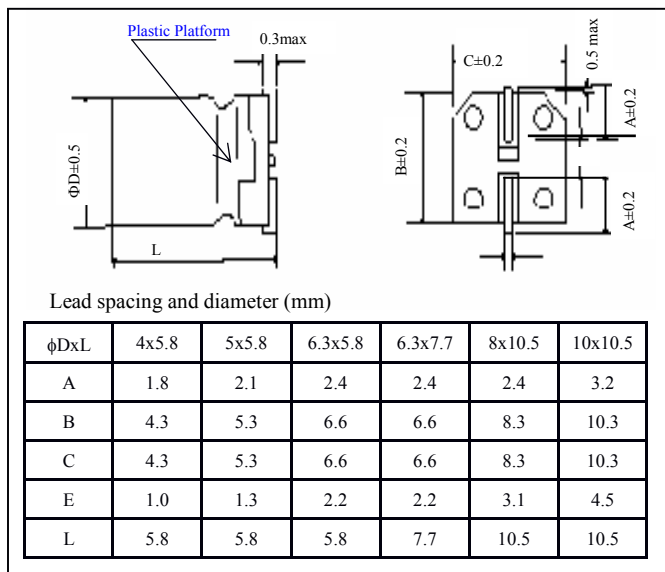
- Load life of 3000~5000 hours with temperature up to +105°
- Lead free soldering product is available subject to customers request



SPECIFICATIONS

Item	Characteristics																										
Operating Temperature Range (°C)	-40~+105 °C																										
Leakage Current (μ A)	After 2 minutes application of rated voltage, leakage current is not more than 0.002 CV or 0.5 μ A, whichever is greater.																										
Capacitance Tolerance (20°C,120 Hz)	±20% at 120 Hz, 20°C																										
Surge Voltage & Max Tan δ 120Hz, Temperature 20°C	<table border="1"> <tr> <td>Rated voltage (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>Tan δ</td> <td>0.28</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.13</td> <td>0.12</td> <td>0.18</td> <td>0.18</td> </tr> </table>	Rated voltage (V)	6.3	10	16	25	35	50	63	100	Tan δ	0.28	0.24	0.20	0.16	0.13	0.12	0.18	0.18								
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Low Temperature Stability	<table border="1"> <tr> <td>Rated voltage (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 rowspan="2">Impedance Ratio ZT/Z20(max)</td> <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> <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> <td>3</td> </tr> </table>	Rated voltage (V)	6.3	10	16	25	35	50	63	100	Impedance Ratio ZT/Z20(max)	Z-25°C/Z+20°C	4	3	2	2	2	2	2	Z-40°C/Z+20°C	10	7	5	3	3	3	3
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Load Life (85°C)	<table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±30% of initial value</td> </tr> <tr> <td>Tan δ</td> <td>300 or less of Initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance Change	Within ±30% of initial value	Tan δ	300 or less of Initial specified value	Leakage Current	Initial specified value or less																				
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Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for load life characteristics listed above.																										
Resistance to soldering heat	<p>After re-flow soldering according to re-flow soldering condition and restored at room temperature, they meet the characteristics requirements listed at right</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±10% of initial value</td> </tr> <tr> <td>Tan δ</td> <td>High specified value or less</td> </tr> <tr> <td>Leakage Current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance Change	Within ±10% of initial value	Tan δ	High specified value or less	Leakage Current	Initial specified value or less																				
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DIMENSIONS



MULTIPLIER FOR RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz
Coefficient	0.70	1.00	1.17	1.36	1.50

■ Standard Ripple Current

WV Cap(μF)		6.3		10		16		25	
10	10R					4x5.8	18	5x5.8	27
22	22R	4x5.8	22	5x5.8	30	5x5.8	30	6.3x5.8	44
33	33R	5x5.8	35	5x5.8	36	6.3x5.8	48	6.3x5.8	50
47	47R	5x5.8	38	6.3x5.8	50	6.3x5.8	50	6.3x7.7	63
100	101	6.3x5.8	69	6.3x7.7	81	6.3x7.7	81	8x10.5	116
150	151	6.3x7.7	85	8x10.5	125	8x10.5	125	10x10.5	320
220	221	6.3x7.7	120	8x10.5	141	10x10.5	216	10x10.5	320
330	331	8x10.5	290	10x10.5	290	10x10.5	290	10x10.5	450
470	471	10x10.5	320	10x10.5	320	10x10.5	320		
680	681	10x10.5	320	10x10.5	320				
1000	102	10x10.5	410						

WV Cap(μF)		35		50		63		100	
0.1	0R1			4x5.8	1.0				
0.22	R22			4x5.8	2.6				
0.33	R33			4x5.8	3.2				
0.47	R47			4x5.8	5				
1	1R0			4x5.8	8				
2.2	2R2			4x5.8	12				
3.3	3R3			4x5.8	17			6.3x7.7	30
4.7	4R7	4x5.8	16	5x5.8	22			8x10.5	50
10	10R	5x5.8	27	6.3x5.8	32	6.3x7.7	45	8x10.5	55
22	22R	6.3x5.8	44	6.3x7.7	58	8x10.5	65	10x10.5	70
33	33R	6.3x7.7	57	8x10.5	140	10x10.5	80	10x10.5	80
47	47R	8x10.5	92	10x10.5	310	10x10.5	90		
100	101	10x10.5	151	10x10.5	310				
150	151	10x10.5	290						
220	221	10x10.5	375					Case Size	Allowable Ripple