



General Purpose, 105°C



Features

- Design for space-saving and high density insertion
- Applications: VTR, car radio, car stereos, charger, etc

Specifications

RADIAL

Item	Performance Characteristics																		
Operating Temperature Range	-40 to +105°C																		
Rated voltage Range	4 to 50 VDC																		
Capacitance Range	0.1 to 470 µF																		
Capacitance Tolerance	±20%(120Hz, +20°C)																		
Leakage Current (+20°C, max.)	I ≤ 0.01 CV or 3(µA) After 1 minute whichever is greater measured with rated working voltage applied.																		
Dissipation Factor (tanδ)	<table border="1"> <tr> <td>Working Voltage (VDC)</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> </tr> <tr> <td>D.F.(%)max</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> <td>10</td> </tr> </table> <p>(+20°C, at 120Hz)</p>	Working Voltage (VDC)	16	25	35	50	63	D.F.(%)max	16	14	12	10	10						
Working Voltage (VDC)	16	25	35	50	63														
D.F.(%)max	16	14	12	10	10														
Low Temperature Characteristics (at 120Hz)	<p>Impedance ratio max.</p> <table border="1"> <tr> <td>Working Voltage (VDC)</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</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> </tr> <tr> <td>Z (-40°C)/Z(+20°C)</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> <td>4</td> </tr> </table>	Working Voltage (VDC)	16	25	35	50	63	Z (-25°C)/Z(+20°C)	2	2	2	2	2	Z (-40°C)/Z(+20°C)	4	4	4	4	4
Working Voltage (VDC)	16	25	35	50	63														
Z (-25°C)/Z(+20°C)	2	2	2	2	2														
Z (-40°C)/Z(+20°C)	4	4	4	4	4														
Load Life	<p>Test conditions</p> <p>Duration time : 1000Hrs</p> <p>Ambient temperature: +105°C</p> <p>Applied voltage: Rated DC working voltage</p> <p>After test requirements: ±25% of the initial measured value</p> <p>Dissipation Factor: ≤200% of the initial specified value</p> <p>Leakage current: ≤The initial specified value</p>																		
Shelf Life	<p>Test conditions</p> <p>Duration time : 1000Hrs</p> <p>Ambient temperature: +105°C</p> <p>Applied voltage: None</p> <p>After test requirements at +20°C: Same limits as Load life.</p> <p>Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.</p>																		

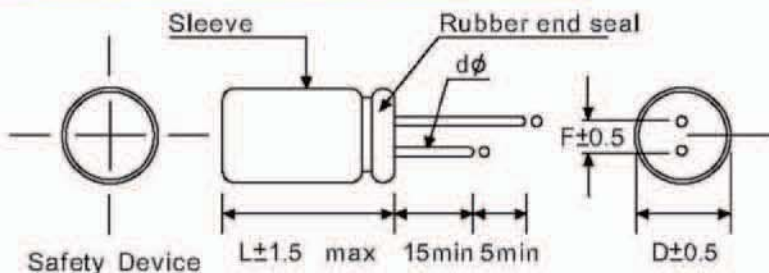
Multiplier for Ripple Current VS. Frequency

CAP(µF)/Hz	50(60)	120	500	1K	10K	
Multiplier	0.1~47	0.65	1.0	1.20	1.30	1.5
	56 UP	0.8	1.0	1.10	1.15	1.20

Multiplier for Ripple Current VS. Temperature

Temperature (°C)	45	60	70	85	105
Multiplier	2.10	1.90	1.65	1.40	1.00

Diagram of Dimensions: (Unit: mm)



Dφ	4	5	6	8
F	1.5	2.0	2.5	3.5
dφ	0.45	0.5		

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Case Size

φD x L (mm)

W.V. {S.V.}	16 {20}		25 {32}		35 {44}		50 {63}	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1-0.47							4x7	1.0~5.0
1							4x7 5x7	10 15
2.2							4x7	19
3.3							4x7	24
4.7							4x7	29
10			4x7	30	4x7 5x7	28 30	5x7	32
22	4x7	37	4x7 5x7	40 45	6x7	47	6x7	50
33	4x7 5x7	41 42	5x7	47	6x7	52	8x7	75
47	5x7	60	6x7	65	6x7	70	8x7	85
68	6x7	72	6x7	75	8x7	84	8x9	97
100	6x7	92	6x7 8x7	100 125	8x7	150	-	-
220	6x7 8x7	125 145	8x7 8x9	150 155	-	-	-	-
330	8x7	175	-	-	-	-	-	-
470	8x9	245	-	-	-	-	-	-

•Ripple Current(mA,rms) at 105°C 120Hz