

Samcon Radial Lead Aluminum Electrolytic Capacitors

ELE SERIES

Low leakage current series with 5mm height
Designed for use in light weight and portable equipment

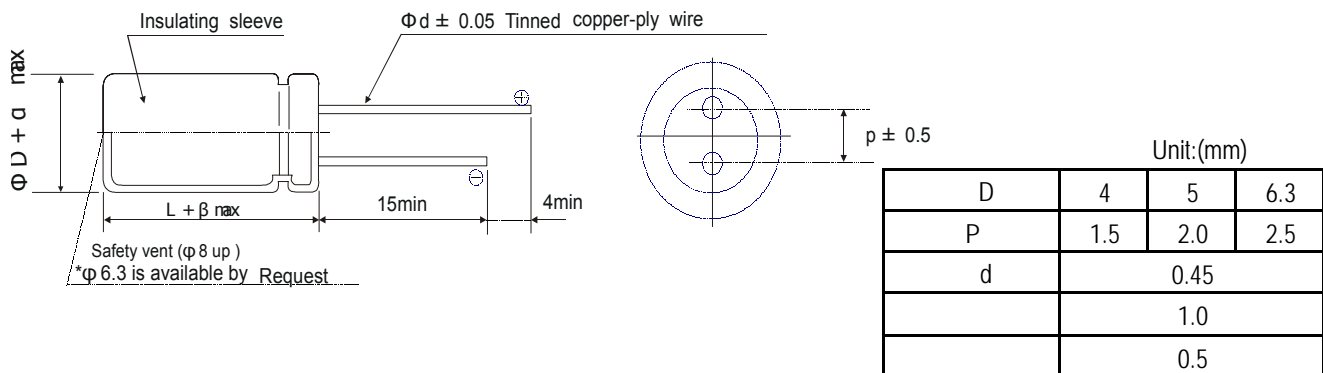
RoHS
compliance

SPECIFICATIONS

Item	Characteristics																					
Category Temperature Range	- 40 ~ +85																					
Voltage Range	4 ~50 V.DC																					
Nominal Cap. Range	0.1 ~ 100 μ F																					
Capacitance Tolerance	- 20% ~ + 20% (at 20 , 120Hz)																					
Leakage Current	$I = 0.002CV$ or $0.4 \mu A$ whichever is greater.(after 2 minutes) where, I: Max Leakage Current(μA), C: Nominal Capacitance(μF), V: Rated Voltage(V) (at 20)																					
Dissipation Factor($\tan\delta$) (at 120Hz, +20)	<table border="1"> <tr> <td>WV</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>\tan</td> <td>0.35</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> </table>	WV	4	6.3	10	16	25	35	50	\tan	0.35	0.24	0.20	0.16	0.14	0.12	0.10					
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\tan	0.35	0.24	0.20	0.16	0.14	0.12	0.10															
Low Temp. Impedance Stability at 120Hz	<table border="1"> <tr> <td>W. V.</td> <td>4</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35,50</td> </tr> <tr> <td>$Z(-25) / Z(+20)$</td> <td>7</td> <td>5</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>$Z(-40) / Z(+20)$</td> <td>15</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> </tr> </table>	W. V.	4	6.3	10	16	25	35,50	$Z(-25) / Z(+20)$	7	5	3	2	2	2	$Z(-40) / Z(+20)$	15	10	8	6	4	3
W. V.	4	6.3	10	16	25	35,50																
$Z(-25) / Z(+20)$	7	5	3	2	2	2																
$Z(-40) / Z(+20)$	15	10	8	6	4	3																
High Temp. Load Test	After applying rated voltage for 1000 hours at 85 , the capacitors shall meet the following requirements. Capacitance Change ... $\pm 20\%$ of the initial measured value \tan ... 200% of the initial specified value DC Leakage Current ... the initial specified value																					
High Temp.Non-Load Test	After storage for 500 hours at 85 with no voltage applied ,voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirements specified in the table "High Temperature Loading " can be met.																					

Note: Some cleaning solvents may adversely affect the capacitors . Consult us about the suitable type of cleaning solvents to be used.

DRAWING



MULTIPLIER FOR RIPPLE CURRENT

(1) Frequency Coefficient

Freq.(Hz) Cap.(μ F)	60(50)	120	1K	10K
0.1 ~ 47	0.8	1.0	1.3	1.50
68 ~ 100	0.8	1.0	1.15	1.2

(2) Temperature Coefficient

Ambient Temperature()	40	50	60	75	85
Coefficient	2.0	1.8	1.6	1.3	1.0

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Standard Ratings

WV(Vdc)	4		6.3		10		16		25		35		50	
Cap.(μ F)	DxL (mm)	Ripple Current (mArms)	DxL (mm)	Ripple Current (mArms)	DxL (mm)	Ripple Current (mArms)	DxL (mm)	Ripple Current (mArms)	DxL (mm)	Ripple Current (mArms)	DxL (mm)	Ripple Current (mArms)	DxL (mm)	Ripple Current (mArms)
0.1													4X5	3.9
0.15													4X5	4.8
0.22													4X5	5.9
0.33													4X5	7.2
0.47													4X5	8.6
0.68													4X5	10
1.0													4X5	12
1.5													4X5	15
2.2													4X5	18
3.3													4X5	22
4.7											4X5	25	5X5	31
6.8									4X5	27	5X5	34	6.3X5	43
10							4X5	31	5X5	39	5X5	42	6.3X5	52
15					4X5	34	5X5	44	6.3X5	54	6.3X5	59		
22			4X5	38	5X5	48	6.3X5	62	6.3X5	66				
33	5X5	44	5X5	54	6.3X5	67	6.3X5	76						
47	5X5	53	6.3X5	74	6.3X5	81								
68	6.3X5	73	6.3X5	89										
100	6.3X5	89												

