

Samcon Radial Lead Aluminum Electrolytic Capacitors

EPM SERIES

RoHS compliance

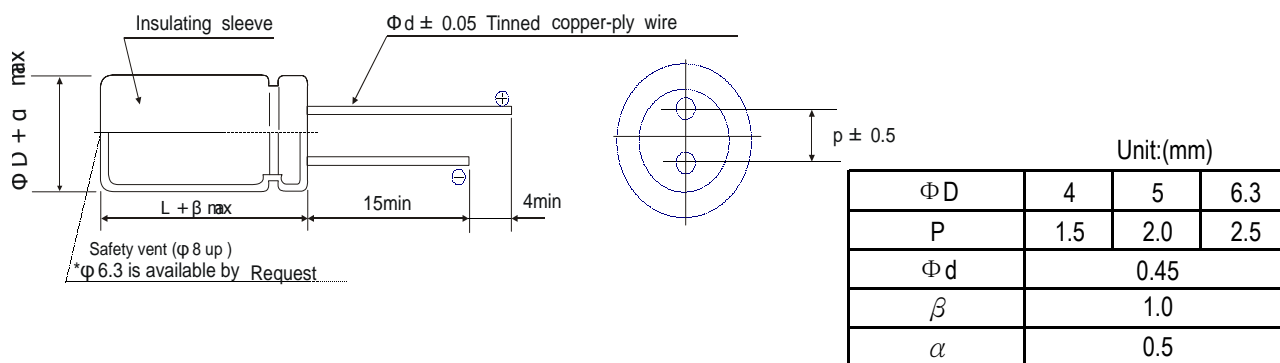
● High frequency, low impedance with 7mm height 105°C 1,000 hours guaranteed

■ SPECIFICATIONS

Item	Characteristics																		
Category Temperature Range	-55 ~ +105°C																		
Voltage Range	6.3 ~35 V.DC																		
Nominal Cap. Range	4.7 ~ 180 μF																		
Capacitance Tolerance	- 20% ~ + 20% (at 20°C, 120Hz)																		
Leakage Current	$I = 0.01CV$ or $3(\mu A)$ Whichever is greater.(after 2 minutes) where, I: Max Leakage Current(μA), C: Nominal Capacitance(μF), V: Rated Voltage(V) (at 20°C)																		
Dissipation Factor (tanδ) (at 120Hz, +20°C)	<table border="1"> <thead> <tr> <th>WV</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> </tr> </tbody> </table>	WV	6.3	10	16	25	35	tanδ	0.24	0.20	0.16	0.14	0.12						
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Low Temp. Impedance Stability at 120Hz	<table border="1"> <thead> <tr> <th>W.V.</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</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> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> </tr> </tbody> </table>	W.V.	6.3	10	16	25	35	Z(-25°C)/Z(+20°C)	4	3	2	2	2	Z(-40°C)/Z(+20°C)	8	6	4	3	3
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Impedance(Ω)	See Case Size Table																		
High Temp. Load Test	After 1,000 hours' application of DC rated working voltage at + 105°C, the capacitor shall meet the following limits. Capacitance Change ... $\cong \pm 25\%$ of the initial measured value tan δ ... $\cong 200\%$ of the initial specified value DC Leakage Current ... \cong the initial specified value																		
High Temp. Non-Load Test	After storage for 500 hours at 105°C 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)	60(50)	120	1K	10K	100K
Cap.(μF)					
4.7~47	0.70	0.85	0.90	0.95	1.00
56~180	0.75	0.80	0.95	0.98	1.00

(2) Temperature Coefficient

Ambient Temperature(°C)	40	60	70	85	105
Coefficient	2.0	1.8	1.6	1.4	1.0

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Standard Ratings

WV(Vdc)	6.3V			10V			16V		
Cap.(μ F)	Φ DxL (mm)	Impedance Ω	Ripple Current (mArms)	Φ DxL (mm)	Impedance Ω	Ripple Current (mArms)	Φ DxL (mm)	Impedance Ω	Ripple Current (mArms)
12							5X7	2.38	80
18				4x7	2.40	80			
22							5X7	2.00	150
27	4X7	2.42	80						
33				5x7	1.48	150			
47							6.3X7	1.20	200
56	4X7	1.51	150						
68				6.3x7	0.90	200	6.3x7	0.89	230
100	6.3X7	0.93	200						
120							6.3X7	0.76	230
130	6.3X7	0.9	230	6.3x7	0.82	230			
180	6.3X7	0.85	240						

WV(Vdc)	25V			35V		
Cap.(μ F)	Φ DxL (mm)	Impedance Ω	Ripple Current (mArms)	Φ DxL (mm)	Impedance Ω	Ripple Current (mArms)
4.7				4x7	2.20	80
8.2	4x7	2.38	80	4x7	2.00	80
15	4x7	2.00	150	5x7	1.65	150
22	5x7	1.70	150	5x7	1.02	150
27	6.3x7	1.35	170	6.3x7	0.85	230
33	6.3x7	0.85	200			
47	6.3x7	0.80	230			

