

ECA 2 Series

High Temp. Electrolytic Capacitors



Features:

- Axial leaded electrolytic.
- Wide operating temperature range, from -40°C to +105°C.
- Excellent temperature performance.
- Suitable to use for industrial equipment.
- Lead Length = 30m.

Characteristics

Item	Characteristics																																						
Operating Temperature Range	-40°C to +105°C																																						
Capacitance Tolerance	±20% (at 20°C, 120Hz)																																						
Leakage Current	I = 0.02CV or 4μA whichever is greater (after 2 minutes applying the rated DC working voltage at 20°C) where : C = Rated capacitance in μF V = Rated DC working voltage in V																																						
Dissipation Factor (tanδ) (at 20°C, 120Hz)	<table><tr><td>Rated Voltage (V)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>63</td><td>100</td></tr><tr><td>(tanδ)</td><td>0.20</td><td>0.17</td><td>0.15</td><td>0.12</td><td>0.09</td><td>0.08</td></tr></table> For capacitors whose capacitance exceeds 1000μF the specification of tanδ is increased by 0.02 for every addition of 1000μF ≤12% (120Hz, 20°C) for 913-716	Rated Voltage (V)	10	16	25	35	63	100	(tanδ)	0.20	0.17	0.15	0.12	0.09	0.08																								
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Low Temperature Characteristics	1. Capacitance at +105°C shall not be higher than 115% of the value at 20°C (120Hz) 2. Impedance ratio at 120Hz <table><tr><td colspan="2">Rated Voltage (V)</td><td>10</td><td>16</td><td>25</td><td>35</td><td>63</td><td>100</td></tr><tr><td rowspan="2">Z(-25°C) /Z(+20°C)</td><td>φD<16</td><td colspan="2">3</td><td colspan="4">2</td></tr><tr><td>φD≥16</td><td colspan="2">4</td><td colspan="4">3</td></tr><tr><td rowspan="2">Z(-40°C) /Z(+20°C)</td><td>φD<16</td><td colspan="2">6</td><td colspan="2">4</td><td colspan="2">3</td></tr><tr><td>φD≥16</td><td>10</td><td colspan="3">8</td><td colspan="2">6</td></tr></table>	Rated Voltage (V)		10	16	25	35	63	100	Z(-25°C) /Z(+20°C)	φD<16	3		2				φD≥16	4		3				Z(-40°C) /Z(+20°C)	φD<16	6		4		3		φD≥16	10	8			6	
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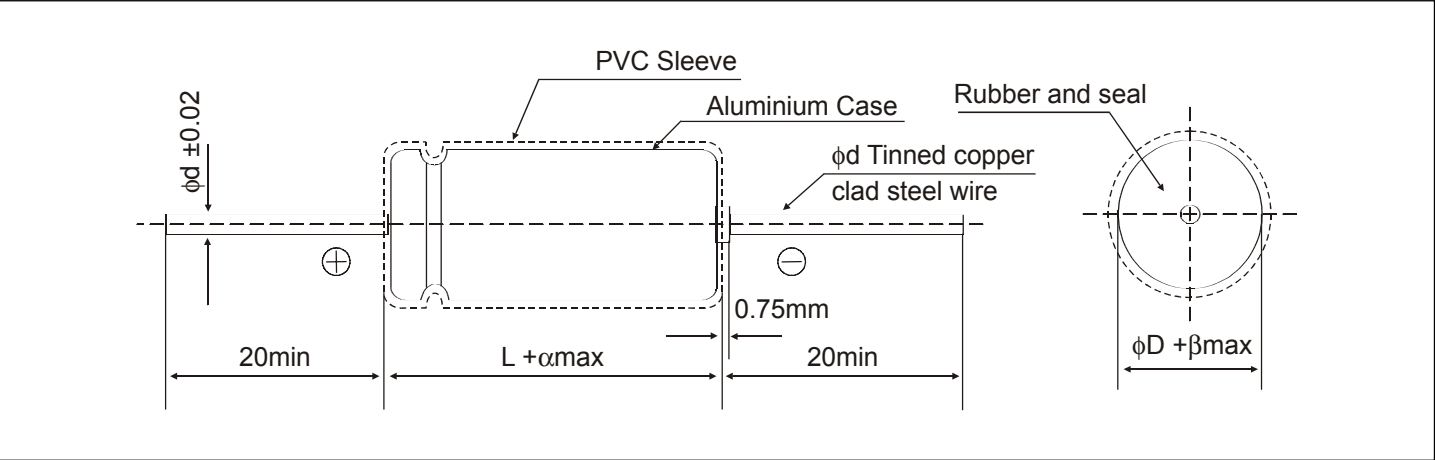
High Temp. Electrolytic Capacitors



Characteristics

Item	Characteristics	
Load Life	After 1000 hours application of rated voltage at 105°C, capacitors meet the characteristics requirements listed at right	Leakage Current
		Initial specified value or less
		Dissipation Factor
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours and applying voltage they meet the specified value for load life characteristics listed above	Less than 200% of specified value
		Capacitance Change
		Within $\pm 20\%$ of initial value

Diagram of Dimensions



ϕD	05	06	6.3	08	10	13	16	18	20	22
ϕd	0.6						0.8			
∞	1.5				2.0					
β	0.5				1.0					

Dimensions : Millimetres



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Part Numbers

Capacitance (μF)	Voltage (V)	Length (L)	Diameter (φD)	Lead Diameter (φd)	Part Number
47	10	13	5	0.6	913-479
100			6		913-480
220			8		913-492
470		16	913-509		
1000		17	913-510		
2200		22	13		913-522
47	16	13	6	0.6	913-534
100		14	6.3		913-546
220		13	8		913-558
470		16			913-560
1000		21	10		913-571
2200		24	13		913-583
4700		33	16	0.8	913-595
10	25	13	5	0.6	913-601
22			6		913-613
47					913-625
100		8	913-637		
220			16		913-649
470		21	10		913-650
1000		22	13	913-662	
2200		28	16	0.8	913-674
4700		36	18		913-686
10	35	13	5	0.6	913-698
22			6		913-704
47		14	6.3		913-716*
100		16	8		913-728
220		17	10		913-730
470		22	13		913-741
1000		27		913-753	
2200		36	16	0.8	913-765
4700		42	22		913-777

* Ripple current (rms 120Hz) : 114mA

Dimensions : Millimetres



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High Temp. Electrolytic Capacitors



Part Numbers

Capacitance (μF)	Voltage (V)	Length (L)	Diameter (φD)	Lead Diameter (φd)	Part Number
10	63	13	6	0.6	913-789
22		14	6.3		913-790
47		16	8		913-807
100		17	10		913-819
220		22	13		913-820
470		27	13		913-832
1000		33	16		1633
2200		42	20		913-856
0.1	100	13	5		913-868
2.2			6		913-870
4.7					913-881
10		14	6.3		913-893
22		16	8		913-900
47		21	10		913-911
100		22	13		913-923

Dimensions : Millimetres

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Notes:

International Sales Offices:



AUSTRALIA – Farnell InOne
Tel No: ++ 61 2 9645 8888
Fax No: ++ 61 2 9644 7898



FINLAND – Farnell InOne
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Fax No: ++ 65 6788 0300



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Fax No: ++ 358 9 345 5411



MALAYSIA – Farnell-Newark InOne
Tel No: ++ 60 3 7873 8000
Fax No: ++ 60 3 7873 7000



SWEDEN – Farnell InOne
Tel No: ++ 46 8 730 50 00
Fax No: ++ 46 8 83 52 62

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