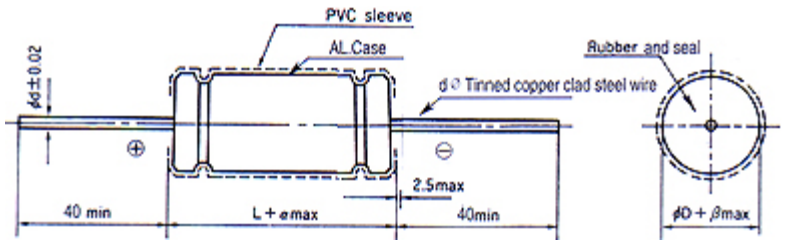
NA series NON-POLARIZED AT 120HZ

<table>
<tr><th>Item</th><th>Characteristics</th></tr>
<tr><td>Operating Temperature Range</td><td>- 40~85°C</td></tr>
<tr><td>Rated Working Voltage Range</td><td>50V~100V DC</td></tr>
<tr><td>Capacitance Tolerance
(120Hz,25°C)</td><td>±20%(M)</td></tr>
<tr><td>Leakage Current (25°C)</td><td>I≦0.04CV or 10(μA)
I: Leakage Current (μA)
C: Rated Capacitance(μ F)
V:Working Voltage(V)
After 5 minutes applying the DC working voltage</td></tr>
<tr><td>Surge Voltage (25°C)</td><td><table><tr><td>W.V.</td><td>50</td><td>63</td><td>100</td></tr><tr><td>S.V.</td><td>63</td><td>79</td><td>125</td></tr></table></td></tr>
<tr><td>Disspation Fator (120Hz,25°C)
(Tan.θ)</td><td><table><tr><td>W.V.</td><td>50</td><td>63</td><td>100</td></tr><tr><td>S.V.</td><td>0.12</td><td>0.12</td><td>0.10</td></tr></table></td></tr>
<tr><td>Temperature Characteristics</td><td><table><tr><td>W.V.</td><td>50</td><td>63</td><td>100</td></tr><tr><td>-25°C /+25°C</td><td>2</td><td>2</td><td>2</td></tr><tr><td>-40°C /+25°C</td><td>3</td><td>3</td><td>3</td></tr></table>Impedance ratio at 120Hz</td></tr>
<tr><td>Load Test</td><td>After 1000 hours application of W.V. at +85°C
the capacitor shall meet the following limits<table><tr><td>Capacitance change</td><td>≦±25% C of initial value</td></tr><tr><td>Tan.θ</td><td>≦±200% C of initial specified value</td></tr><tr><td>Leakage current</td><td>≦initial specified value</td></tr></table></td></tr>
<tr><td>Shelf Test</td><td>After 500 hours application of W.V. at +85°C
the capacitor shall meet the following limits<table><tr><td>Capacitance change</td><td>≦±25% C of initial value</td></tr><tr><td>Tan.θ</td><td>≦±200% C of initial specified value</td></tr><tr><td>Leakage current</td><td>≦200% of initial specified value</td></tr></table></td></tr>
</table>

NA series Dimensions



L≦16→α=1 Ø D≦10→β=0.5

L>16→α=2 Ø D≦10→β=1.0

Unit(mm)

D	6	8	10	13	16	18
d±0.02	0.5	0.5	0.6	0.6	0.8	0.8

DxL (m/m)

μF\WV	50		63		100	
1	6x16	16	6x16	16	6x16	20
2.2	6x16	24	6x16	24	6x16	32
3.3	6x16	29	6x16	35	6x16	47
4.7	6x16	39	6x16	42	8x17	55
10	8x17	67	8x17	70	10x20	95
22	8x17	109	8x20	124	10x24	171
33	10x20	143	10x20	166	13x26	210
47	10x20	181	10x24	219	13x26	271
100	10x24	295	13x26	390	16x33	
220	13x31	542	16x33	627		
330	16x33	751	16x42			
470	16x42	790				

A-CAP PART NUMBER SYSTEM FOR ALUMINUM ELECTROLYTIC CAPACITORS

RoHS Compliant Pb Free

ORDERING INFORMATION

OPTIONAL DIMENSIONS AND LEAD SPACING (IF NOT STANDARD)

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
S R	1 0 3	M	0 1 6	B	2 0 3 6	G	10.5
Series	Capacitance (µF)	Capacitance Tolerance (EIA Code)	Voltage Code	Packing Code	Diameter x Height (mm)	Lead Spacing	Lead Length (mm) (For lead cut only)

Series
SR
SA
GR
GA
SS
SK
SL
SZ
NR
NA
BA
LS
LB
SG

EXAMPLES:	
Capacitance	Code
0.1 µF	R10
0.68 µF	R68
1.0 µF	1R0
6.8 µF	6R8
10 µF	100
68 µF	680
100 µF	101
680 µF	681
1000 µF	102
6800 µF	682
10000 µF	103

Code	Tolerance
K	± 10%
*M	± 20%
Q	-10 ~ +30%
T	-10 ~ +50%

Rated Voltage	Code
10 V	010
16 V	016
25 V	025
35 V	035
50 V	050
63 V	063
100 V	100
160 V	160
200 V	200
250 V	250
350 V	350
400 V	400
450 V	450

Code	Packing Form and Lead
B	Bulk
A	Ammo Taping
T	Tape & Reel
C	Lead cut only
Z	Lead formed only
F	Lead cut & formed
Y	Lead kinked

EXAMPLES: Dimensions	
Diameter x Height (mm)	Code
4 x 7 mm	0407
5 x 11 mm	0511
6 x 7 mm	0607
6 x 11 mm	0611
8 x 9 mm	0809
8 x 12 mm	0812
10 x 17 mm	1017
13 x 21 mm	1321
16 x 26 mm	1626
20 x 36 mm	2036
22 x 41 mm	2241
25 x 56 mm	2556

Code	Lead Spacing Denoted By "F" (mm)
A	1.5 mm
B	2.0 mm
C	2.5 mm
D	3.5 mm
E	5.0 mm
F	7.5 mm
G	10.5 mm
H	12.5 mm

Can be any custom length. Examples.	
Code	Lead Length (mm)
3.5	3.5 mm
5.0	5.0 mm
7.5	7.5 mm
10.5	10.5 mm

ORDERING DESCRIPTION

(1) CAPACITOR SERIES

(2) CAPACITANCE CODE expressed in microfarads (µF) with three digit codes. The first two digits are significant ("R" indicates decimal point for under 10 µF) and the third digit represents the number of zeros to be added following the 2nd significant figure.

(3) TOLERANCE CODE [(M) is standard]

(4) RATED VOLTAGE in volts

(5) PACKAGING AND LEAD CONFIGURATION CODES

(6) SIZE (DIAMETER x HEIGHT in mm)

(7) LEAD SPACING in mm (Not applicable for AXIAL TYPE)

(8) LEAD LENGTH in mm (For lead cut only)

When placing an order for A-CAP ELECTROLYTIC CAPACITORS, product specifications are applied to develop part numbers as shown below:

EXAMPLE:
General purpose 1000 µF / 50 Volts / 20% / Radial Lead Cut / Lead spacing = 7.5mm / Lead Length = 7.5mm
NOTE: For Capacitance Value 1000 µF, 1 & 0 are significant digits then 2 zeros follow the 2nd signficant digit = Code 102

SR	102	M	050	C	1626	F	7.5

EXAMPLE:
High temperature load 470 µF / 25 Volts / 20% Radial Type (Tape & Reel) / Lead spacing = 5.0mm
NOTE: For Capacitance Value 470 µF, 4 & 7 are significant digits then 1 zero follows the 2nd significant digit = Code 471

GR	471	M	025	T	1021	E