



HIGH TEMPERATURE TYPE

Features

- 105□) 1000 hours assured.
- 105□) 1000 \* + , - . /
- Wide operating temperature range , from -40□ to +105□  
O 1 2 3 4 5 6 - 40□ 7 + 105□
- Excellent temperature performance  
8 9 : 2 3 ; <
- Suitable to use for industrial equipment.  
= > ? O @ A B

CHARACTERISTICS

ITEMS	CHARACTERISTIC																																													
Operating Temperature Range O 1 2 3 4 5	C 40D ~ E 105D																																													
Capacitance Tolerance ' F G H	±10% ) ±20% (at 20D 120Hz)																																													
Leakage Current I % J	I = 0.02CV or 3 (KA) Whichever is greater L M N O P (after 2 minutes applying the rated DC working voltage at 20D) (Q 20 D R S T J U V % W 2 X Y Z [ ) where: C = rated capacitance inKF. ( ' F P \ ] ^ _ ` a b c V = rated DC working voltage in V. d U V O 1 % W \ ] ^ _ e f c																																													
Dissipation Factor (Tan δ) (At 20D, 120 Hz) h i j	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>Tan g</td> <td>0.23</td> <td>0.20</td> <td>0.17</td> <td>0.15</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </table> <p>For capacitors whose capacitance exceeds 1,000KF, the specification of tan g is increased by 0.02 for every addition of 1,000µF. k % ' F l m 1000µFn ' F o p S 1000µFn h i j q r P s p S 0.02</p>	Rated voltage (V)	6.3	10	16	25	35	50	63	100	Tan g	0.23	0.20	0.17	0.15	0.12	0.10	0.09	0.08																											
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Low Temperature Characteristics • 2 f ;	<p>Impedance ratio at 120Hz. v w x y z { G 120Hz</p> <table border="1"> <tr> <td>Rated voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <td>Z (-25D)   D} 16</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>/Z (+20D)   D~ 16</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>Z (-40D)   D} 16</td> <td>10</td> <td>8</td> <td>6</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td>/Z (+20D)   D~ 16</td> <td>18</td> <td>16</td> <td>12</td> <td>10</td> <td>8</td> <td>8</td> <td>6</td> <td>6</td> </tr> </table>	Rated voltage (V)	6.3	10	16	25	35	50	63	100	Z (-25D)   D} 16	6	4	3	3	2	2	2	2	/Z (+20D)   D~ 16	8	6	4	4	3	3	3	3	Z (-40D)   D} 16	10	8	6	6	4	3	3	3	/Z (+20D)   D~ 16	18	16	12	10	8	8	6	6
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	<p>After 1000 hours application of rated voltage at 105D, capacitors meet the characteristics requirements listed at right. Q U V % W 105D € • , n f m 1000 * + [ n % ' f ; _ ... † , ‡ _</p> <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>Dissipation Factor</td> <td>Less than 200% of specified value e</td> </tr> </table>	Capacitance Change	Within ±20% of initial value	Dissipation Factor	Less than 200% of specified value e																																									
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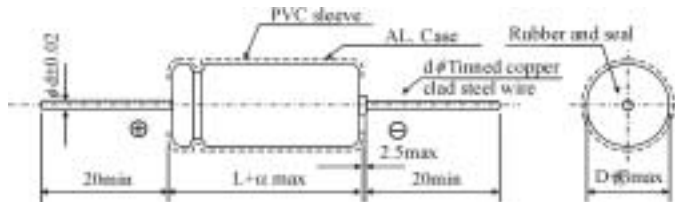
# Axial Type Aluminum Electrolytic Capacitors

TG

! " # \$ % & % ' (

## HIGH TEMPERATURE TYPE

### DIAGRAM OF DIMENSIONS



ΦD	5	6.3	8	10	13	16	18	22	25
Φd	0.6					0.8			
°	1.5					2.0			
±	0.5					1.0			

### DIMENSIONS & RIPPLE CURRENT

Diameter (D φ) × Length(L) m/m  
 $\mu F = \frac{C}{3.6} \times 10^{-6}$  (m/m)

RIPPLE CURRENT . mA at 105°C, 120Hz

$\%J = \frac{I_r}{I} \times 100$  (mA) 2 3 105D , x y z { 120Hz

μF	V.DC Contents	0J		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
			mA	φ D×L	mA	φ D×L	mA	φ D×L	mA	φ D×L	mA	φ D×L	mA	φ D×L	mA	φ D×L	mA
												5×12	2	5×12	3	5×12	3
	R22											5×12	3.5	5×12	4.5	5×12	5
0.33	R33											5×12	5	5×12	7.5	5×12	8
0.47	R47											5×12	6	5×12	8	5×12	9
1.0	010											5×12	10	5×12	13	5×12	15
2.2	2R2											5×12	18	5×12	20	5×12	22
3.3	3R3											5×12	25	5×12	27	5×12	29
4.7	4R7											5×12	30	5×12	34	6.3×13	37
10	100					5×12	35	5×12	39	5×12	44	5×12	50	6.3×13	55	6.3×13	64
22	220					5×12	55	5×12	60	6.3×13	65	6.3×13	75	6.3×13	90	8×16	106
33	330			5×12	60	5×12	70	5×12	75	6.3×13	85	6.3×13	105	8×13	110	10×17	150
47	470			5×12	75	6.3×13	85	6.3×13	90	6.3×13	114	8×13	125	8×16	155	10×21	180
100	101	6.3×13	102	6.3×13	110	6.3×13	135	8×13	145	8×16	180	10×17	210	10×17	248	13×22	287
220	221	6.3×13	167	8×13	180	8×13	231	8×16	246	10×17	305	10×21	349	13×22	420	16×28	458
330	331	8×16	236	8×16	253	8×16	285	10×17	345	10×21	391	13×22	450	13×22	495	16×33	582
470	471	8×16	281	8×16	302	10×17	359	10×21	432	13×22	490	13×22	561	13×27	632	16×36	713
1000	102	10×17	453	10×17	486	10×21	569	13×22	662	13×27	721	16×33	875	16×36	984	18×42	1096
2200	222	13×22	740	13×22	793	13×24	926	16×28	1024	16×33	1177	18×36	1408	22×43	1540	25×52	2310
3300	332	13×27	906	13×27	1015	16×28	1173	16×33	1300	18×36	1449	22×43	1724	25×52	1950		
4700	472	13×27	1168	16×28	1252	16×33	1443	18×36	1638	22×43	1878	25×43	1950	25×52	2290		