

• For general purposes series with 85°C 2000 hours

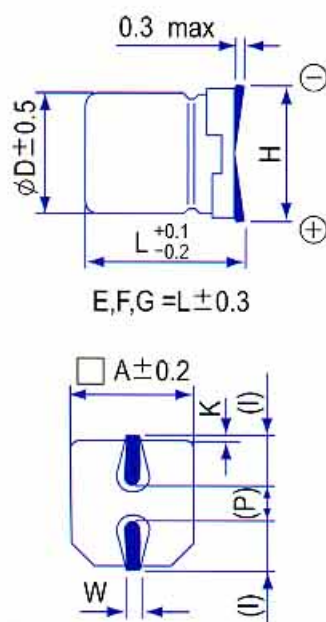
• Suitable for AV( TV, Video , Audio), Personal Computer, Home appliance

● SPECIFICATION

Item	Characteristic																																												
Operation Temperature Range	-40~+85°C																																												
Rated working Voltage	4~100 V.DC																																												
Capacitance Tolerance	± 20%(120Hz/+25°C)																																												
Leakage Current (25°C)	Polarized: $I \leq 0.01 CV$ or $3 (\mu A)$ Bi-polar : $I \leq 0.02 CV$ or $6 (\mu A)$ Whichever is greater after 2 minutes I : Leakage Current ( $\mu A$ ) C : Rated Capacitance ( $\mu F$ ) V : Working Voltage(V)																																												
Dissipation Factor( $\tan \delta$ ) (120Hz 25°C)	Polar : Add 0.02 to D.F. for $\phi 3$ case size <table border="1"> <tr> <td>W.V.(V)</td> <td>4</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><math>\phi 4\sim\phi 6.3</math></td> <td>0.35</td> <td>0.26</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>--</td> <td>--</td> </tr> <tr> <td><math>\phi 8\sim\phi 10</math></td> <td>0.40</td> <td>0.35</td> <td>0.26</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.18</td> <td>0.18</td> </tr> </table> Bi-polar : <table border="1"> <tr> <td>W.V.(V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>D.F.</td> <td>0.52</td> <td>0.40</td> <td>0.32</td> <td>0.28</td> <td>0.24</td> <td>0.24</td> </tr> </table>	W.V.(V)	4	6.3	10	16	25	35	50	63	100	$\phi 4\sim\phi 6.3$	0.35	0.26	0.20	0.16	0.14	0.12	0.12	--	--	$\phi 8\sim\phi 10$	0.40	0.35	0.26	0.20	0.16	0.14	0.12	0.18	0.18	W.V.(V)	6.3	10	16	25	35	50	D.F.	0.52	0.40	0.32	0.28	0.24	0.24
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Low Temperature Stability	Impedance ratio at 120Hz <table border="1"> <tr> <td>W.V.(V)</td> <td>4</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>-25/+25°C</td> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>3</td> <td>3</td> </tr> <tr> <td>-40/+25°C</td> <td>15</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>4</td> <td>4</td> </tr> </table>	W.V.(V)	4	6.3	10	16	25	35	50	63	100	-25/+25°C	7	4	3	2	2	2	2	3	3	-40/+25°C	15	8	6	4	4	3	3	4	4														
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-25/+25°C	7	4	3	2	2	2	2	3	3																																				
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Load Life	After 2000 hours application of W.V. at +85°C, the capacitor shall meet the following limits. Capacitance Change $\leq \pm 20\%$ of initial value( $\phi 3, 4$ W.V. : 1000h $\pm 30\%$ ) Dissipation Factor $\leq 200\%$ of initial specified value Leakage current $\leq$ initial specified value																																												
Shelf Life	At +85°C no voltage application after 1000 hours and then through the aging treatment (reference JIS C 5102, 4.4), the capacitor shall meet the limits for load life characteristics.																																												

● DIMENSIONS (mm)

ITEM SIZE CODE	D	L	A	H	I	W	P	K
A	3.0	5.4	3.3	4.5 MAX	1.5	0.55±0.1	0.6	0.35 <sup>+0.15</sup> / <sub>-0.20</sub>
B	4.0	5.4	4.3	5.5 MAX	1.8	0.65±0.1	1.0	0.35 <sup>+0.15</sup> / <sub>-0.20</sub>
C	5.0	5.4	5.3	6.5 MAX	2.2	0.65±0.1	1.5	0.35 <sup>+0.15</sup> / <sub>-0.20</sub>
D	6.3	5.4	6.6	7.8 MAX	2.6	0.65±0.1	1.8	0.35 <sup>+0.15</sup> / <sub>-0.20</sub>
E	8.0	6.2	8.3	9.5 MAX	3.4	0.65±0.1	2.2	0.35 <sup>+0.15</sup> / <sub>-0.20</sub>
F	8.0	10.2	8.3	10.0 MAX	3.4	0.90±0.2	3.1	0.70±0.2
G	10.0	10.2	10.3	12.0 MAX	3.5	0.90±0.2	4.6	0.70±0.2



● CASE SIZE & MAX RIPPLE CURRENT

• Polarized

Max ripple current : (mA) r.m.s. (120Hz/+85°C)

$\mu F$ code	V(code)	4 (0G)	6.3 (0J)	10 (1A)	16 (1C)	25 (1E)	35 (1V)	50 (1H)	63 (1J)	100 (2A)										
0.1	0R1							A,B	1,1											
0.22	R22							A,B	2,2											
0.33	R33							A,B	3,3											
0.47	R47							A,B	5,5											
1.0	010							A,B	8,10											
2.2	2R2						A	8	B	16										
3.3	3R3						A	10	B	16										
4.7	4R7					A,B	12,22	B	22	C	23		E	50						
10	100					A,B	20,28	C	28	C	30	D	35	E	35	F	85			
22	220	A	19	B	29	B	28	C	39	D	55	D	60	E	120	F	40	G	85	
33	330	B	26	B	22	C	43	C	35	D	65	E	130	F	110	F	45	G	90	
47	470	B	34	C	46	C	43	D	70			E	165	G	130					
100	101	C	61	D	71	D	70	E	200	F	180	G	210	G	250	G	60			
220	221	D	82			E	250	F	280	G	310	G	310							
330	331			E	300	F	330	G	380											
470	471			F	380	G	400	G	420											
1000	102			G	700	G	580												Size Code	R.C.

• Bi-polar

$\mu F$ code	V(code)	6.3 (0J)	10 (1A)	16 (1C)	25 (1E)	35 (1V)	50 (1H)					
0.22	R22						B	2				
0.33	R33						B	3				
0.47	R47						B	5				
1.0	010						B	10				
2.2	2R2					B	12	C	16			
3.3	3R3				B	12	C	21				
4.7	4R7			B	20	C	21	C	22	D	31	
10	100		B	25	C	25	D	28	D	30		
22	220	C	29		D	39						
33	330		D	43								
47	470	D	46								Size Code	R.C.

● PARTS NUMBER SYSTEM (example : 22  $\mu F$ , 10V)

