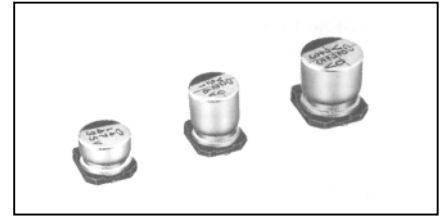


Higher capacitance in larger case sizes

- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.



SPECIFICATIONS

Item	Performance																													
Category temperature range ()	-40~+85																													
Rated voltage range	4~50V																													
Rated capacitance range	0.1~330 μ F																													
Capacitance tolerance	\pm 20% (20 , 120Hz)																													
Leakage current (μ A)	After 1 minutes' application of rated voltage, leakage current is not more than 0.03CV (μ A)																													
Tangent of loss angle (tan δ)	<table border="1" style="width: 100%; text-align: center;"> <tr> <th>Rated voltage (V)</th> <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> <th>tan δ (max.)</th> <td>0.35</td><td>0.28</td><td>0.24</td><td>0.20</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.12</td><td>0.12</td> </tr> </table>	Rated voltage (V)	4	6.3	10	16	25	35	50	63	100	tan δ (max.)	0.35	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.12									
	Rated voltage (V)	4	6.3	10	16	25	35	50	63	100																				
tan δ (max.)	0.35	0.28	0.24	0.20	0.16	0.14	0.12	0.12	0.12																					
(20 , 120Hz)																														
Stability at low temperature	<table border="1" style="width: 100%; text-align: center;"> <tr> <th>Rated voltage (V)</th> <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> <th rowspan="2">Impedance ratio (max.)</th> <td>Z25 /Z+20</td> <td>7</td><td>5</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td> </tr> <tr> <td>Z40 /Z+20</td> <td>15</td><td>10</td><td>8</td><td>6</td><td>4</td><td>3</td><td>3</td><td>3</td> </tr> </table>	Rated voltage (V)	4	6.3	10	16	25	35	50	63	100	Impedance ratio (max.)	Z25 /Z+20	7	5	4	3	2	2	2	2	Z40 /Z+20	15	10	8	6	4	3	3	3
	Rated voltage (V)	4	6.3	10	16	25	35	50	63	100																				
Impedance ratio (max.)	Z25 /Z+20	7	5	4	3	2	2	2	2																					
	Z40 /Z+20	15	10	8	6	4	3	3	3																					
(120Hz)																														
Endurance (85) (Applied ripple current)	Capacitance change	Within \pm 20% of initial value																												
	tan δ	200% or less of initial specified value																												
	Leakage Current	Initial specified value or less																												
After 2000 hours' application of rated voltage at 85 , capacitors meet the characteristic requirements listed at right.																														
Shelf life	After leaving capacitors under no load at 85 for 1000 hours, they meet the specified value for endurance characteristics listed above.																													
Resistance to soldering heat	Capacitance change	Within \pm 10% of initial value																												
	tan δ	Initial specified value or less																												
	Leakage Current	Initial specified value or less																												
The capacitors shall be kept on the hot plate maintained at 250 for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.																														
Frequency coefficient of rated ripple current	Frequency (Hz)																													
	Cap.(μ F)	50	120	300	1k	10k~																								
	~47	0.80	1.00	1.15	1.40	1.67																								
100~1500	0.85	1.00	1.08	1.20	1.30																									

CHIP TYPE

(ϕ 6.3, ϕ 8 \times 6.2)

*1. Size ϕ 8 \times 6.2 only.
 *2. Voltage mark for 6.3V is 「6V」.
 In case of marking for ϕ 3 units, "V" for rated voltage is omitted.

(ϕ 8 \times 10, ϕ 10 \times 10)

Outside Size ϕ D \times L	6.3 \times 5.8	6.3 \times 7.7	8 \times 6.2	8 \times 10	10 \times 10
A	2.4	2.4	3.3	2.9	3.2
B	6.6	6.6	8.3	8.3	10.3
C	6.6	6.6	8.3	8.3	10.3
E	2.2	2.2	2.3	3.1	4.5
L	5.8	7.7	6.2	10	10
H	0.5~0.8	0.5~0.8	0.5~0.8	0.8~1.1	0.8~1.1

DIMENSIONS

V		4		6.3		10		16		25		35		50		63		100	
Cap. (µF)	Code	0G		0J		1A		1C		1E		1V		1H		1J		2A	
		3.3	3R3																
4.7	4R7															6.3×5.8	31	6.3×5.8 8×6.2	35 40
10	100															8×6.2	46	8×10	77
22	220													6.3×5.8	45	8×10	96	8×10	100
33	330											6.3×5.8	65	6.3×7.7 8×6.2	94 95	8×10	117	10×10	130
47	470									6.3×5.8	65	6.3×5.8 8×6.2	94 105	6.3×7.7 8×10	105 140	8×10	140	10×10	155
100	101					6.3×5.8	70	8×6.2	125	6.3×7.7 8×6.2	143 145	6.3×7.7 8×10	132 175	8×10 10×10	181 195	10×10	232		
150	151					6.3×5.8	85	6.3×7.7	151	8×10	192	8×10	214	10×10	238				
220	221			6.3×5.8 8×6.2	143 160	6.3×7.7 8×6.2	173 175	6.3×7.7 8×10	162 215	8×10 10×10	232 250	8×10 10×10	246 265	10×10	289				
330	331	6.3×5.8	152	6.3×7.7 8×6.2	188 190	8×10	240	8×10	270	8×10 10×10	284 305	10×10	324						
470	471	6.3×7.7	200	8×10	265	8×10	290	8×10 10×10	307 330	10×10	393								
680	681	8×10	284	8×10	318	10×10	374	10×10	396										
1000	102	8×10	344	8×10 10×10	372 400	10×10	454												
1500	152	10×10	347	10×10	489														Case size Rated ripple

Rated Ripple (mA rms) at 85 120Hz