



**CM Series**

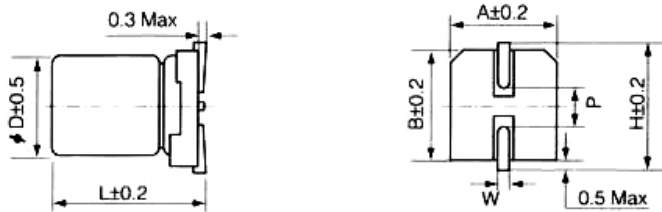
85°C, Chip Type for Surface Mounting

- Load Life 2,000 at 85°C.
- Miniature of CS
- Expand up to Ø10 case sizes
- For Surface Mounting

**Characteristics**

Voltage Range	6.3 ~ 50 VDC																					
Capacitance Range	4.7 to 1,000µF																					
Temperature Range	-40 to +85°C																					
Capacitance Tolerance	±20% at 120Hz, 20°C																					
Leakage Current (at 20°C)	I = 0.01CV or 3µA (After 2 minutes). Whichever is greater.																					
Tan δ (max., at 20°C, 120Hz)	<table border="1"> <tr> <td>Working Voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Tan δ</td> <td>0.35</td> <td>0.26</td> <td>0.20</td> <td>0.15</td> <td>0.15</td> <td>0.12</td> </tr> </table>	Working Voltage (V)	6.3	10	16	25	35	50	Tan δ	0.35	0.26	0.20	0.15	0.15	0.12							
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Tan δ	0.35	0.26	0.20	0.15	0.15	0.12																
Stability at Low Temperature (at 120Hz)	<table border="1"> <tr> <td>Working Voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z(-25°C) / Z(+20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C) / Z(+20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> </tr> </table>	Working Voltage (V)	6.3	10	16	25	35	50	Z(-25°C) / Z(+20°C)	4	3	2	2	2	2	Z(-40°C) / Z(+20°C)	8	6	4	4	3	3
	Working Voltage (V)	6.3	10	16	25	35	50															
	Z(-25°C) / Z(+20°C)	4	3	2	2	2	2															
Z(-40°C) / Z(+20°C)	8	6	4	4	3	3																
Load Life	After applying rated working voltage for 2000 hours at +85°C, and then being stabilized at +20°C, capacitors shall meet the following limits.																					
	<table border="1"> <tr> <td>Capacitance Change</td> <td>±25% or less of initial specified value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>200% or less of initial specified value</td> </tr> <tr> <td>Leakage Current</td> <td>less than initial specified value</td> </tr> </table>	Capacitance Change	±25% or less of initial specified value	D.F. (tan δ)	200% or less of initial specified value	Leakage Current	less than initial specified value															
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Leakage Current	less than initial specified value																					
Shelf Life	After storage for 1,000 hours at 105°C with no voltage applied and then being stabilized at +20°C capacitors shall meet load life specification.																					

**Dimensions (Units:mm)**



Size Code	ØD	L	A	B	P	H	W
B	4.0	5.3	4.3	4.3	1.0	5.0	0.5 ~ 0.8
C	5.0	5.3	5.3	5.3	1.5	5.9	0.5 ~ 0.8
D	6.3	5.3	6.6	6.6	2.0	7.2	0.5 ~ 0.8
D1	6.3	5.7	6.6	6.6	2.0	7.2	0.5 ~ 0.8
D2	6.3	7.7	6.6	6.6	2.0	7.2	0.5 ~ 0.8
E	8.0	6.3	8.3	8.3	2.3	9.0	0.5 ~ 0.8
F	8	10.0	8.3	8.3	3.1	9.0	0.5 ~ 1.1
G	10	10.0	10.3	10.3	4.5	11.0	0.5 ~ 1.1

