

FEATURES

1. Directly mountable on printed circuit board without holders.
2. Smaller low profile sizes than ordinary capacitors.
3. Terminal spacing fixed at 10mm for PC board plug in.
4. Aluminum case designed explosion-proof vent.

SPECIFICATIONS

Item	Performance Characteristics																					
Operating Temperature Range	-40 to +85°C	-25 to +85°C																				
Rated Working Voltage Range	16 to 250V	400 to 450V DC																				
Nominal Capacitance Range	56 ~ 56000μF																					
Capacitance Tolerance	±20% (120Hz, +20°C)																					
Leakage Current	$I \leq 3\sqrt{CV}$ after 5 minutes application of rated working voltage at +20°C																					
Dissipation Factor tan δ (120Hz, +20°C)	<table border="1"> <tr> <td>Working voltage (V)</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> <td>160~250</td> <td>400~450</td> </tr> <tr> <td>tan δ (max.)</td> <td>0.50</td> <td>0.40</td> <td>0.35</td> <td>0.35</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> <td>0.20</td> </tr> </table>		Working voltage (V)	16	25	35	50	63	80	100	160~250	400~450	tan δ (max.)	0.50	0.40	0.35	0.35	0.30	0.25	0.20	0.15	0.20
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Low Temperature Characteristics	Impedance ratio max. at 120Hz <table border="1"> <tr> <td>Working voltage (V)</td> <td>16~100</td> <td>160~250</td> <td>400~450</td> </tr> <tr> <td>Z-25°C/ Z+20°C</td> <td>4</td> <td>3</td> <td>8</td> </tr> <tr> <td>Z-40°C/ Z+20°C</td> <td>15</td> <td>12</td> <td>-</td> </tr> </table>		Working voltage (V)	16~100	160~250	400~450	Z-25°C/ Z+20°C	4	3	8	Z-40°C/ Z+20°C	15	12	-								
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High Temperature Loading	Test conditions The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied for 2000 hours at 85°C Post test requirements at +20°C Leakage current : ≤ Initial specified value Capacitance change : ≤ ±20% of initial measured value tan δ : ≤ 200% of initial specified value																					
Shelf Life	At 85°C no voltage applied after 1000 hours the capacitors shall meet the following limits Leakage current : ≤ 200% of Initial specified value Capacitance change : ≤ ±15% of initial measured value tan δ : ≤ 150% of initial specified value																					
Others	JIS C - 5141 JIS C - 5102																					

RIPPLE CURRENT MULTIPLIERS

- 1) Maximum rms ripple current at 120Hz, 85°C are given in the table.
- 2) Temperature multiplying factor :

Where capacitors are operated at temperature other than 85°C, the maximum ripple current must be multiplied by the figure shown in the table below.

Temperature coefficient

Temperature (°C)	20 ~ 45	65	75	85
Factor	1	0.91	0.86	0.73

- 3) Frequency multiplying factor:

If capacitors are used to filter circuits at a frequency other than 120Hz, the maximum ripple current must be multiplied by the figure shown in the table below.

Frequency coefficient

Frequency (Hz)	60	120	1k	10 ~ 50k
25 ~ 100V	0.9	1.0	1.15	1.25
160 ~ 250V	0.8	1.0	1.15	1.47
350 ~ 450V	0.8	1.0	1.15	1.47

CASE SIZE TABLE



