

TEA Series

• 105°C 2,000Hrs assured.

- Non-solvent proof.
- Height 15mm.
- For SMPS, Inverter.
- RoHS compliant.
- Halogen-free capacitors are also available.



SPECIFICATIONS

Item	Characteristics				
Rated Voltage Range	160 ~ 400 V _{DC}				
Operating Temperature Range	-25 ~ +105°C				
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)				
Leakage Current	I = 0.02CV(µA) or 3mA, whichever is smaller. Where, I: Leakage current(µA), C:Nominal capacitance(µF), V:Rated voltage(V _{DC}) (at 20°C, 5 minutes)				
※ Dissipation Factor(Tanδ)	<table border="1"> <tr> <td>Rated voltage(V_{DC})</td> <td>160 ~ 400</td> </tr> <tr> <td>Tanδ(Max.)</td> <td>0.20</td> </tr> </table> (at 20°C, 120Hz)	Rated voltage(V _{DC})	160 ~ 400	Tanδ(Max.)	0.20
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Temperature Characteristics (Max. Impedance ratio)	<table border="1"> <tr> <td>Rated voltage(V_{DC})</td> <td>160 ~ 400</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>4</td> </tr> </table> (at 120Hz)	Rated voltage(V _{DC})	160 ~ 400	Z(-25°C)/Z(20°C)	4
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Load Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 105°C.</p> <p>Capacitance change ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value</p>				
Shelf Life	<p>The following specifications shall be satisfied when the capacitors are restored to 20°C after the exposing them at 105°C for 1,000 hours without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.</p> <p>Capacitance change ≤ ±20% of the initial value Tanδ ≤ 200% of the initial specified value Leakage current ≤ The initial specified value</p>				
Others	Satisfied characteristics KS C IEC 60384-4				

※ For capacitors with CV products > 100,000 higher Tanδ value may apply.
 When the capacitance exceeds 1,000µF, 0.01 shall be added every 1,000µF increase.

RATED RIPPLE CURRENT

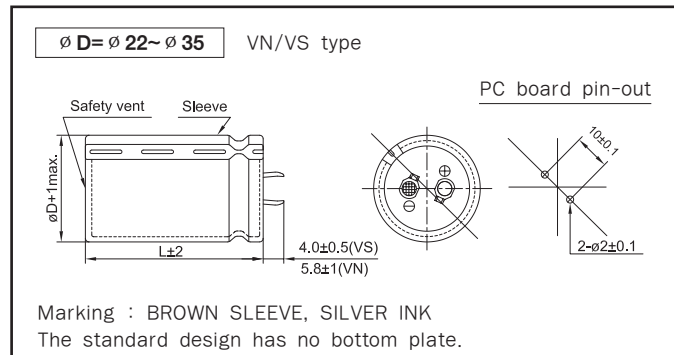
When capacitors are operated in any other conditions at 120Hz the maximum ripple current must be multiplied by the figure shown in the table.

Frequency multiplying factor

V _{DC}	Freq.(Hz)	60	120	300	1k	10k~
160~250V _{DC}		0.81	1.00	1.17	1.32	1.45
350~400V _{DC}		0.77	1.00	1.16	1.30	1.41

DIMENSIONS OF TEA Series

Unit(mm)



RATINGS OF TEA series

μF	V_{DC} ϕD	160				200			
		22	25.4	30	35	22	25.4	30	35
120						22 × 15 0.61			
150		22 × 15 0.68					25.4 × 15 0.73		
180			25.4 × 15 0.79					30 × 15 0.79	
220			25.4 × 15 0.88					30 × 15 0.90	
270				30 × 15 0.96					35 × 15 1.00
330				30 × 15 1.06					35 × 15 1.07
390					35 × 15 1.20				

μF	V_{DC} ϕD	250				400			
		22	25.4	30	35	22	25.4	30	35
39						22 × 15 0.35			
47							25.4 × 15 0.40		
56							25.4 × 15 0.44		
68								30 × 15 0.46	
82		22 × 15 0.50						30 × 15 0.51	
100			25.4 × 15 0.59						35 × 15 0.56
120			25.4 × 15 0.65						35 × 15 0.62
150				30 × 15 0.71					
180				30 × 15 0.79					
220					35 × 15 0.90	← Case Size $\phi D \times L$ (mm) ← Rated Ripple Current(Arms/105°C, 120Hz)			