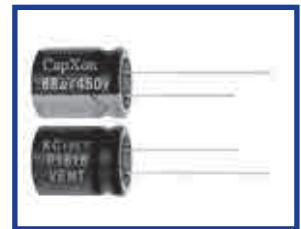


## KC 105°C 3000 hours,Ultra Miniaturize



### Features

- ◆ Endurance 3000 hours 105°C
- ◆ ROHS compliant

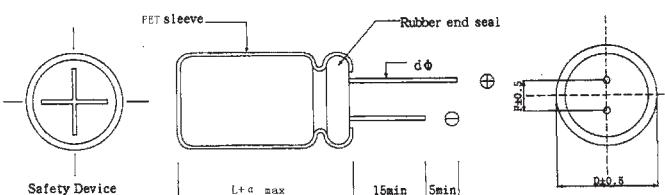
### Specifications

Item	Performance Characteristics					
Operating Temperature Range	-25 to +105°C					
Rated Voltage Range	400 to 450 VDC					
Capacitance Tolerance	$\pm 20\%$ (120Hz, +20°C)					
Leakage Current (+20°C,max.)	$I \leq 3 \sqrt{CV} (\mu A)$ After 5 minute with rated working voltage applied. C:rated Capacitance ( $\mu F$ ) , V:working voltage(V)					
Dissipation Factor ( $\tan \delta$ , at 20°C , 120Hz)	Less than the value under table <table border="1"> <tr> <td>Cap( <math>\mu F</math> ) / W.V.(V)</td><td>400~450V</td></tr> <tr> <td><math>\tan \delta</math></td><td>20%</td></tr> </table>		Cap( $\mu F$ ) / W.V.(V)	400~450V	$\tan \delta$	20%
Cap( $\mu F$ ) / W.V.(V)	400~450V					
$\tan \delta$	20%					
Low Temperature Characteristics (at 120Hz)	Impedance ratio max <table border="1"> <tr> <td>Rated voltage(V)</td><td>400~450</td></tr> <tr> <td>Z-25°C / Z+20°C</td><td>8</td></tr> </table>		Rated voltage(V)	400~450	Z-25°C / Z+20°C	8
Rated voltage(V)	400~450					
Z-25°C / Z+20°C	8					
Endurance	Test conditions Duration time :3000Hrs Ambient temperature :+105°C Applied voltage :Rated DC working voltage After test requirement at +20°C Capacitance change :Within $\pm 20\%$ of the initial measured value Dissipation factor :Not more than 200% of the initial specified value Leakage current :Not more than The initial specified value					
Shelf Life	Test conditions Duration time :1000Hrs Ambient temperature :+105°C Applied voltage :None After test requirement at +20°C:Same limits as Endurance. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.					

### Multiplier for Ripple Current vs. Frequency

Frequency(Hz)	50(60)	120	400	1K	10K	50K-100K
Coefficient	400~450V	0.8	1	1.30	1.45	1.5

### Diagram of Dimensions:(unit:mm)



$\phi D$	10~13	16~18
F	5.0	7.5
$\phi d$	0.6	0.8
$\alpha$	2.0	

## Case Size

WV (Vdc)	Cap (uF)	Size (mm)	Rated Ripple current (mArms/105°C /120Hz)
400	82	16x25	600
400	100	16x31.5	710
400	120	16x35.5	800
400	150	16x40	920
400	150	18x31.5	890
400	180	16x50	1080
400	180	18x40	1060
400	220	18x45	1200
420	100	16x31.5	690
420	120	16x35.5	780
420	120	18x31.5	800
420	150	16x45	940
420	150	18x35.5	920
420	180	16x50	1050

WV (Vdc)	Cap (uF)	Size (mm)	Rated Ripple current (mArms/105°C /120Hz)
420	180	18x40	1040
420	220	18x50	1220
450	82	16x31.5	640
450	100	16x35.5	730
450	120	16x40	820
450	120	18x31.5	800
450	150	16x50	980
450	150	18x40	970
450	180	18x45	1090
450	180	18x45	1090
450	220	18x50	1220