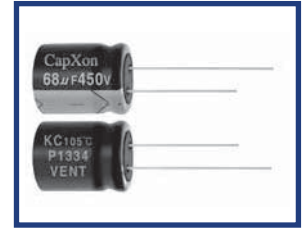


KC 105°C 3000 hours, Ultra Miniaturize

Features

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

KM Ultra miniaturized **KC**



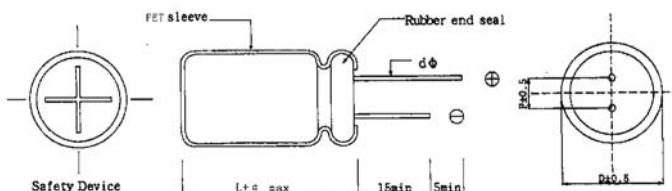
Specifications

Item	Performance Characteristics			
Operating Temperature Range	-25 to +105°C			
Rated Voltage Range	400 to 450 VDC			
Capacitance Tolerance	±20% (120Hz, +20°C)			
Leakage Current (+20°C, max.)	$I \leq 3\sqrt{CV}$ (µA) After 5 minute with rated working voltage applied. C:rated Capacitance (µF) · V:working voltage(V)			
Dissipation Factor (tan δ · at 20°C · 120Hz)	Less than the value under table			
	<table border="1"> <tr> <td>Cap(µF) / W.V.(V)</td> <td>400~450V</td> </tr> <tr> <td>tan δ</td> <td>20%</td> </tr> </table>	Cap(µF) / W.V.(V)	400~450V	tan δ
Cap(µF) / W.V.(V)	400~450V			
tan δ	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
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 ±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	1.65	1.5

Diagram of Dimensions:(unit:mm)



φ D	10~13	16~18
F	5.0	7.5
φ d	0.6	0.8
α	2.0	

Case Size

WV Cap(μ F)	400		420		450	
	Size	Ripple	Size	Ripple	Size	Ripple
82	16x25	600			16x31.5	640
100	16x31.5	710	16x31.5	690	16x35.5	730
120	16x35.5	800	16x35.5	780	16x41	820
			18x31.5	800	18x31.5	800
150	16x41	920	16x45	940	16x51	980
	18x31.5	890	18x35.5	920	18x41	970
180	16x51	1080	16x51	1050	18x45	1090
	18x41	1060	18x41	1040	18x45	1090
220	18x45	1200	18x51	1220	18x51	1220

ϕ DxL(mm)

Ripple Current (mA, rms) at 105°C 120Hz