

KM Series

+105°C, General (普通品)

FEATURES

1. Rated working voltage range 6.3 to 100V DC/160 to 450V DC at operation temperature range -40 to +105°C / ±25 to +105°C.
2. This series is for communication equipments, switching power supply, industrial measuring instruments, automotive electric products, etc.



SPECIFICATIONS

Item	Performance Characteristics	
Operating Temperature Range	-40 to +105°C	
Rated Working Voltage Range	6.3 to 100V	
Nominal Capacitance Range	0.1 to 33000 μ F	
Capacitance Tolerance	±20% (120Hz, +20°C)	
Leakage Current	$I \leq 0.01CV$ or $3(\mu A)$ whichever is greater after 2 minutes application of rated working voltage at +20°C	
$\tan \delta$ (120Hz, +20°C)	Working Voltage (V)	6.3 10 16 25 35 50 63 100
	$\tan \delta$ (max.)	0.26 0.22 0.18 0.16 0.14 0.12 0.10 0.08
	Working Voltage (V)	160 200 250 250 350 400 420 450
For capacitance value > 1000 μ F, add 0.02 per another 1000 μ F	$\tan \delta$ (max.)	0.20 0.20 0.20 0.20 0.24 0.24 0.24 0.24
	Impedance ratio max. at 120Hz	
	Working Voltage (V)	6.3 10 16 25 35 50 63 100
Low Temperature Characteristics	Z-25°C / Z+20°C	5 4 3 2 2 2 2 2
	Z-40°C / Z+20°C	10 8 6 4 3 3 3 3
	Working Voltage (V)	160 200 220 250 350 400 420 450
For capacitance value > 1000 μ F, Add 0.5 per another 1000 μ F for Z-25°C / Z+20°C Add 1.0 per another 1000 μ F for Z-40°C / Z+20°C	Z-25°C / Z+20°C	3 3 3 3 4 4 6 6
	Working Voltage (V)	160 200 220 250 350 400 420 450
	Z-25°C / Z+20°C	3 3 3 3 4 4 6 6

High Temperature Loading

Test conditions	Post test requirements at +20°C	
Duration :	$\phi D \leq 6.3$	Leakage current : \leq Initial specified value
	≥ 8	Cap. change : within $\pm 20\%$ of initial measured value
	Load life 1000h	$\tan \delta$: $\leq 200\%$ of initial specified value
	2000h	
Ambient temp. : +105°C		

Applied voltage : DC voltage with maximum permissible ripple current specified at +105°C
(Sum of the DC voltage and super-imposed peak AC voltage for maximum permissible ripple current should be equal to rated DC working voltage).

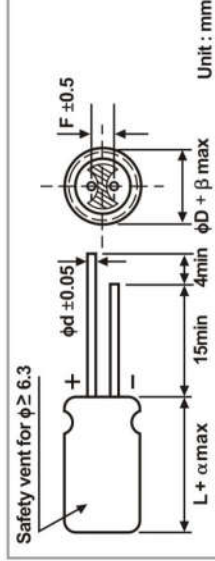
Shelf Life

Test conditions : Same limits for high temperature loading.
Duration : 1000 hours
Ambient temp. : +105°C
Applied voltage : (None)

Others

JIS C - 5101 (IES 60384)

CASE SIZE TABLE



ϕD	5	6.3	8	10	12.5	16	18	22	25
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0	10.0
ϕd	0.5		0.6		0.8				
α	(L < 20) 1.5			(L \geq 20) 2.0					
β	(D < 20) 0.5			(D \geq 20) 1.0					

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