

## KM Series

### +105°C, General (普通品)

#### FEATURES

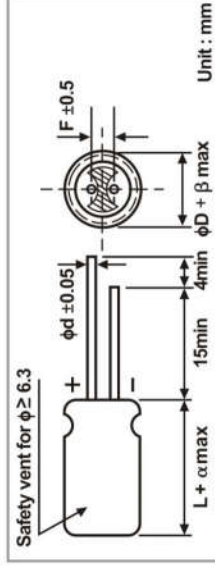
1. Rated working voltage range 6.3 to 100V DC/160 to 450V DC at operation temperature range -40 to +105°C / ±25 to +105°C.
2. This series is for communication equipments, switching power supply, industrial measuring instruments, automotive electric products, etc.



#### 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 33000µF	
Capacitance Tolerance	±20% (120Hz, +20°C)	
Leakage Current	I ≤ 0.01CV or 3(µA) whichever is greater after 2 minutes application of rated working voltage at +20°C	
tan δ (120Hz, +20°C)	Working Voltage (V)	6.3 10 16 25 35 50 63 100
	tan δ (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 > 1000µF, add 0.02 per another 1000µF	tan δ (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
High Temperature Loading	Z-25°C / Z+20°C	3 3 3 4 4 4 6 6
	For capacitance value > 1000µF, Add 0.5 per another 1000µF for Z-25°C / Z+20°C	
	Add 1.0 per another 1000µF for Z-40°C / Z+20°C	
Shelf Life	Test conditions	Post test requirements at +20°C
	Duration : φD ≤ 6.3 ≥ 8	Leakage current : ≤ Initial specified value
	Load life 1000h 2000h	Cap. change : within ±20% of initial measured value
Others	Ambient temp. : +105°C	tan δ : ≤ 200% of initial specified value
	Applied voltage : (None)	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).
	JIS C - 5101 ( IES 60384 )	Test conditions : 1000 hours Duration : +105°C Ambient temp. : (None) Applied voltage : (None)

#### 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 ≥ 20) 2.0					
β	(D < 20) 0.5			(D ≥ 20) 1.0					

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