

### WK Series

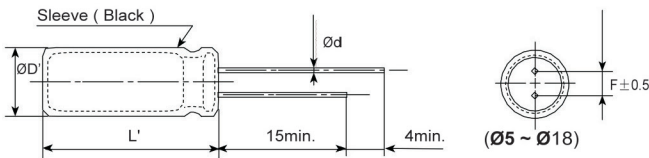
- Standard series for general purpose
- Endurance: +85°C 2,000 hours
- RoHS Compliant



#### ◆ SPECIFICATIONS

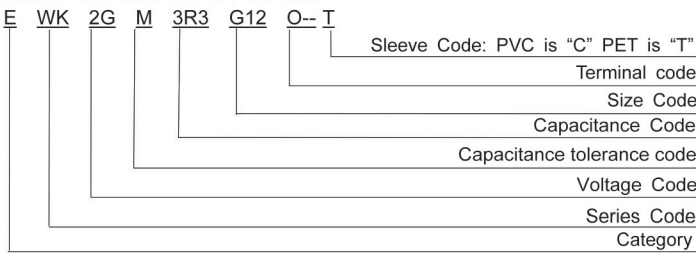
Items	Characteristics														
Category	-40 to +85°C (6.3 to 100V <sub>dc</sub> )						-25 to +85°C (160 to 450V <sub>dc</sub> )								
Temperature Range															
Rated Voltage Range	6.3 to 450V <sub>dc</sub>														
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)														
Leakage Current	6.3 to 100V <sub>dc</sub>			160 to 450V <sub>dc</sub>			Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)								
	I ≅ 0.01CV or 3μA Whichever is greater			I ≅ 0.03CV+10μA									(at 20°C after 2minutes)		
Dissipation Factor (tanδ)	Rated voltage (V <sub>dc</sub> )														
	tanδ (Max.)														
When nominal capacitance exceeds 1,000 uF, add 0.02 to the value above for each 1,000 uF increase.													(at 20°C, 120Hz)		
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V <sub>dc</sub> )														
	Z(-25°C)/Z(+20°C)														
	Z(-40°C)/Z(+20°C)														
The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000hours at 85°C.													(at 120Hz)		
Endurance	Capacitance change														
	D.F. (tanδ)														
	Leakage current														
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 85°C without voltage applied.														
	Capacitance change														
	D.F. (tanδ)														
	Leakage current														

#### ◆ DIMENSIONS [mm]



ØD	5	6.3	8	10	12.5	16	18
Ød	0.5	0.5	0.5	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ØD'	ØD+0.5max.						
L'	L+2max.						

#### ◆ PART NUMBER SYSTEM



※Sleeve code and Terminal Code should follow the part number system

#### ◆ RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current Φ5 to Φ18

Freq. (Hz)	50	120	300	1k	10k	100k
Cap. <10	0.65	1.00	1.35	1.75	2.30	2.50
10 ≤ Cap. <100	0.75	1.00	1.25	1.50	1.75	1.80
100 ≤ Cap. ≤ 1000	0.80	1.00	1.15	1.30	1.40	1.50
Cap. >1000	0.85	1.00	1.03	1.05	1.08	1.08

The endurance of capacitors is shorted with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.