

# K26 TYPE -40°C +85°C 12000H

RoHS Compliant

- Surge-proof capacitor in aluminium can with insulation sleeve.
- Snap in terminals for PCB mounting.
- Design optimized for high ripple current applications.

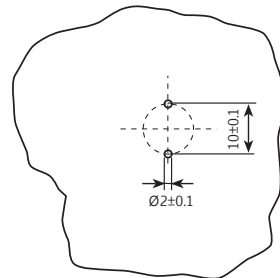
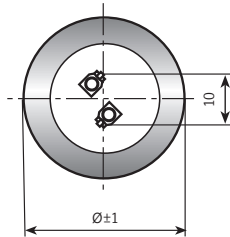
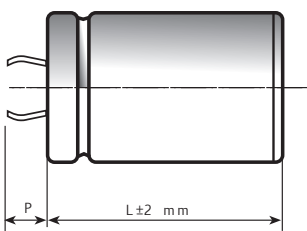
## APPLICATIONS

Designed for professional application.  
Ultra compact UPS, Solar inverters, High ripple current converters, Motor drives.

Dimensions in mm.

Circuit board hole dimensions

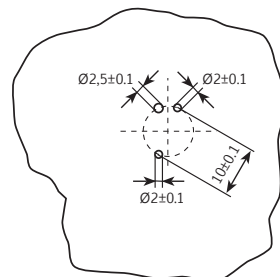
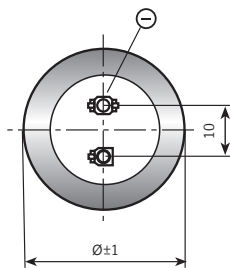
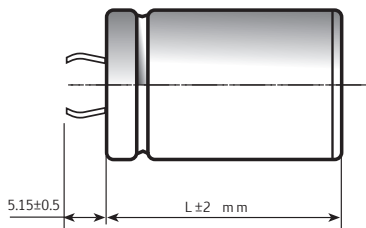
### 2 PIN CAPACITOR



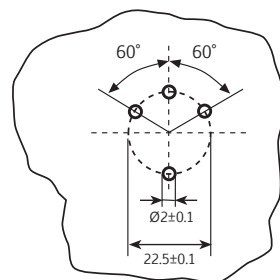
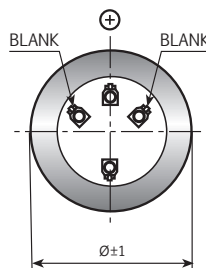
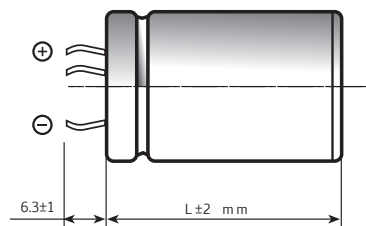
PIN LENGTH

P 4.5 short pin - P 6.3 long pin (standard)

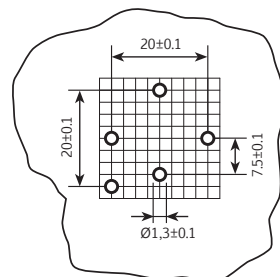
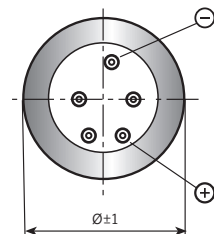
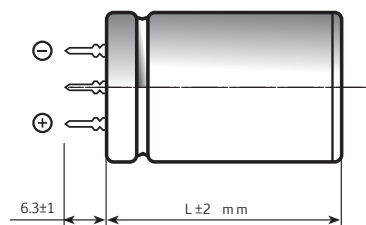
### 3 PIN CAPACITOR



### 4 PIN CAPACITOR



### 5 PIN CAPACITOR



Ø	22	25	30	35	40	45	50
2 PIN	●	●	●	●	●		
3 PIN		●	●	●			
4 PIN				●	●	●	●
5 PIN					●		

On demand, only for capacitors with diam ≥ 35mm: octagonal can shape for long stress vibration applications.

## SPECIFICATIONS

<b>Temperature Range</b>	Operating: -40°C +85°C [Environmental classification 40/85/56 IEC-68] Storage : Preferably below +25°C, not exceeding +40°C							
<b>Rated Voltage Range (V<sub>r</sub>)</b>	from 400V to 500V DC							
<b>Surge Voltage (V<sub>p</sub>)</b>	V <sub>p</sub> = 1.10 V <sub>r</sub>							
<b>Rated Capacitance Range</b>	from 1000 µF to 2700 µF							
<b>Capacitance Tolerance</b>	±20% at 100 Hz, 20°C [M class IEC-62] on request: -10% +30% at 100 Hz, 20°C [Q class IEC-62]							
<b>Leakage Current (I<sub>L</sub>) (mA, 5 min, 20°C)</b>	max I <sub>L</sub> = 0.006 C <sub>r</sub> V <sub>r</sub> + 4 µA At 85°C max I <sub>L</sub> = 0.04 C <sub>r</sub> V <sub>r</sub> µA		Kendeil product limit: I <sub>L</sub> = 0.003 C <sub>r</sub> V <sub>r</sub>					
<b>Ripple current (I<sub>r</sub>)</b>	Refer to table at 85°C and 100Hz:							
	FREQUENCY MULTIPLIER	50Hz 0.88	100Hz 1.0	500 Hz 1.45	1000Hz 1.50	>10kHz 1.55		
	AMBIENT TEMP. MULTIPLIER	35°C 2.2	45°C 2.1	55°C 1.8	65°C 1.6	75°C 1.4	85°C 1.0	95°C 0.5
	Maximum internal temperature	98°C						
<b>Insulation Resistance</b>	At 100V DC for 1 min is >100 MΩ across insulating sleeve and terminals.							
<b>Vibration Resistance</b>	Frequency range: 10 Hz to 500 Hz, amplitude 0.75 mm max acceleration 10g for 3x2 h							
<b>Withstand voltage (between terminals bundled and plate)</b>	2500 VAC for 1 min							
<b>Life test</b>	After 2,000 hours application of rated voltage at 85°C capacitors meet characteristics aside		Cap change tan δ Leakage current (I <sub>L</sub> ) Impedance (Z)	≤ 10% ≤ 130% < initial limit ≤ 200%				
<b>Shelf life</b>	After leaving capacitors under no load for 500 hours at 85°C, when restored at 20°C meet specifications aside		Cap change tan δ Leakage current (I <sub>L</sub> )	≤ ±15% ≤ 150% < initial limit				
<b>Useful life (V<sub>n</sub>, Temp rated I ripple applied)</b>	> 200000 h at 40°C > 12000 h at 85°C							
<b>Failure percentage Failure rate</b>	≤ 1% (during useful life) ≤ 33 fit (33 10 <sup>-9</sup> /h)							
<b>Self inductance</b>	Approx. 20 nH							
<b>Damp heat test (V<sub>n</sub> applied, 2000 hours, 85% RH)</b>	Stable electrical parameters in humidity ambient condition 85°C							
<b>Electrolyte</b>	All the capacitors of this series have self-extinguishing electrolyte in accordance with IEC EN 60695-11-10							
<b>Marking information</b>	minus pole band aside within an angle of 41° ± 25°							
<b>Reference standards</b>	CECC 30.300 - IEC 60384-4 LONG LIFE GRADE							

## K26 TYPE STANDARD RATINGS

Cap $\mu\text{F}$	$\varnothing \times L$ mm	Tan $\delta$ MAX 100 Hz 20°C	ESR TYP m $\Omega$ 100 Hz 20°C	Z TYP m $\Omega$ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER termination digit excluded
1000	40x60	0.12	99	74	5.1	K26400102_PM0F060
1200	40x77	0.12	94	64	5.2	K26400122_PM0F077
1500	45x60	0.12	84	61	5.4	K26400152_PM0N060
1800	45x77	0.12	70	51	6.2	K26400182_PM0N077
1800	50x60	0.10	70	51	6.5	K26400182_PM0V060
2000	40x105	0.12	61	44	7.6	K26400202_PM0F105
2200	45x105	0.13	47	40	7.8	K26400222_PM0N105
2200	50x77	0.10	47	40	7.6	K26400222_PM0V077
2700	45x105	0.13	46	39	9.2	K26400272_PM0N105
3300	50x105	0.10	37	30	10.2	K26400332_PM0V105

**RATED  
VOLTAGE  
VDC**

**400V**

Cap $\mu\text{F}$	$\varnothing \times L$ mm	Tan $\delta$ MAX 100 Hz 20°C	ESR TYP m $\Omega$ 100 Hz 20°C	Z TYP m $\Omega$ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER termination digit excluded
1000	40x60	0.11	99	74	5.1	K26420102_PM0F060
1200	40x77	0.11	94	64	5.2	K26420122_PM0F077
1200	45x60	0.11	94	64	5.2	K26420122_PM0N060
1500	40x105	0.12	75	55	6.3	K26420152_PM0F105
1500	45x77	0.12	75	55	5.6	K26420152_PM0N077
1500	50x60	0.10	75	55	5.7	K26420152_PM0V060
1800	50x77	0.10	67	50	6.9	K26420182_PM0V077
2200	45x105	0.13	47	40	7.8	K26420222_PM0N105
2700	50x105	0.10	37	30	9.5	K26420272_PM0V105

**RATED  
VOLTAGE  
VDC**

**420V**

Cap $\mu\text{F}$	$\varnothing \times L$ mm	Tan $\delta$ MAX 100 Hz 20°C	ESR TYP m $\Omega$ 100 Hz 20°C	Z TYP m $\Omega$ 10 kHz 20°C	I <sub>r</sub> a.c. A max 100 Hz 85°C	PART NUMBER termination digit excluded
1000	40x60	0.11	99	74	5.1	K26450102_PM0F060
1200	40x77	0.11	94	64	5.2	K26450122_PM0F077
1200	45x60	0.11	94	64	5.2	K26450122_PM0N060
1500	40x105	0.12	75	55	6.3	K26450152_PM0F105
1500	45x77	0.12	75	55	5.6	K26450152_PM0N077
1500	50x60	0.10	75	55	5.7	K26450152_PM0V060
1800	50x77	0.10	67	50	6.9	K26450182_PM0V077
2200	45x105	0.13	47	40	7.8	K26450222_PM0N105
2700	50x105	0.10	37	30	9.5	K26450272_PM0V105

**RATED  
VOLTAGE  
VDC**

**450V**

PLEASE TO CONTACT OUR TECHNICAL SERVICE FOR MORE INFORMATION OR SPEC-IN ANALYSIS.

## K26 TYPE STANDARD RATINGS

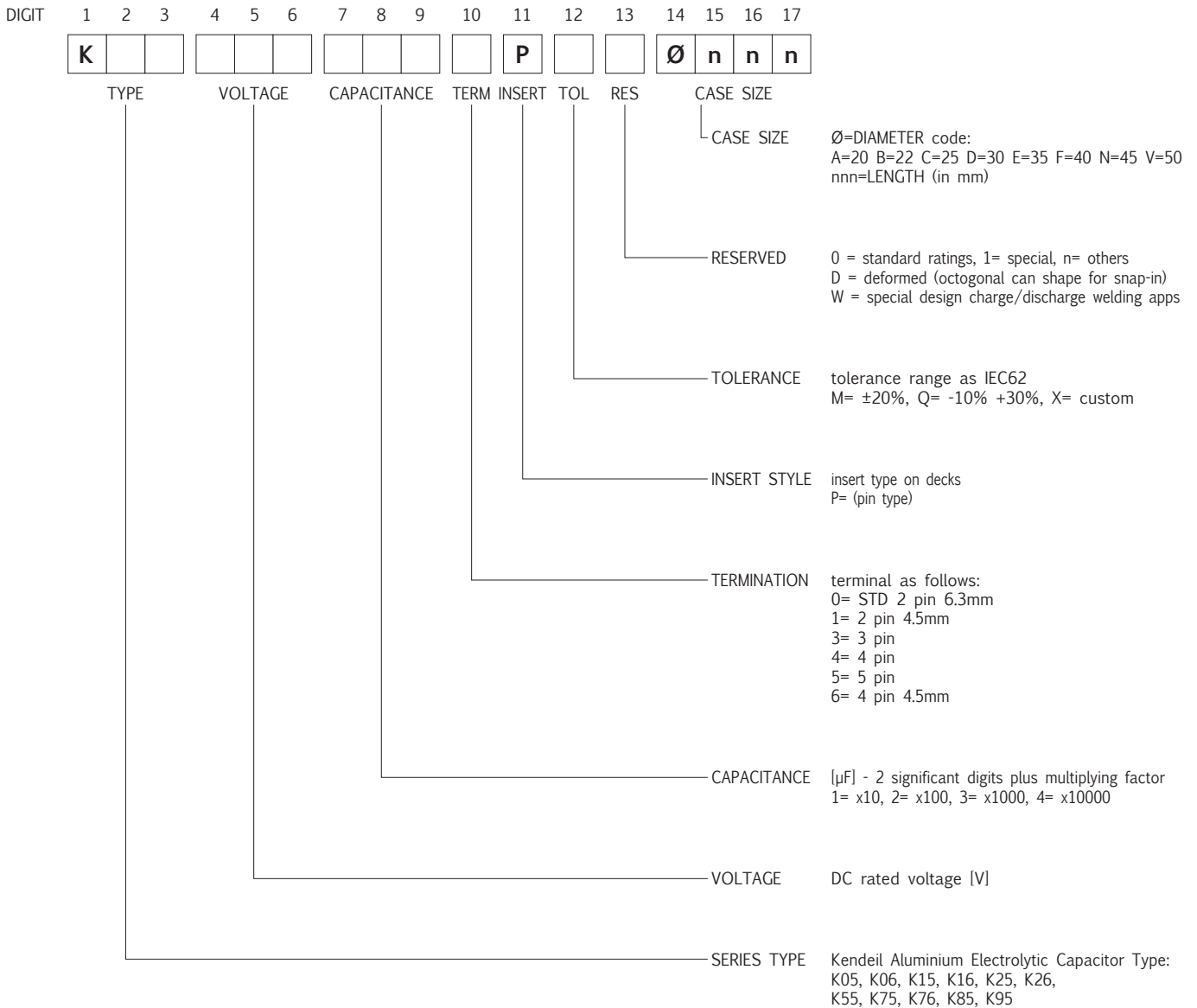
Cap $\mu\text{F}$	$\varnothing \times L$ Mm	Tan $\delta$ MAX 100 Hz 20°C	ESR TYP $m\Omega$ 100 Hz 20°C	Z TYP $m\Omega$ 10KHz 20°C	Ir a.c. A max 100 Hz 85°C	PART NUMBER Termination digit excluded
330	35x40	0.12	250	180	2.2	K26500331_PM0E040
470	35x50	0.12	187	153	2.6	K26500471_PM0E050
560	40x50	0.12	176	134	3.1	K26500561_PM0F050
560	35x60	0.12	176	134	3.2	K26500561_PM0E060
680	35x77	0.12	165	120	3.8	K26500681_PM0E077
680	40x60	0.12	165	120	3.8	K26500681_PM0F060
820	40x77	0.12	138	108	4.7	K26500821_PM0F077
1000	40x97	0.12	115	95	6.0	K26500102_PM0F097
1500	45x97	0.12	90	80	7.1	K26500152_PM0N097
1700	45x105	0.12	77	72	7.3	K26500172_PM0N105

**RATED  
VOLTAGE  
VDC**

**500V**

## PART NUMBER SYSTEM FOR SNAP-IN TYPE CAPACITORS

New PART-NUMBER CODE in use since Sep 2010. Total length is 17 digits.  
Please see examples below and have a reference code from the standard ratings capacitors pages.



### EXAMPLES

K	0	5	4	5	0	4	7	1	0	P	M	0	E	0	5	0
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K05 450V 470µF, standard pin, ±20%, 35x50

Specifications subject to change without notice