

K26 TYPE -40°C +85°C 12000H

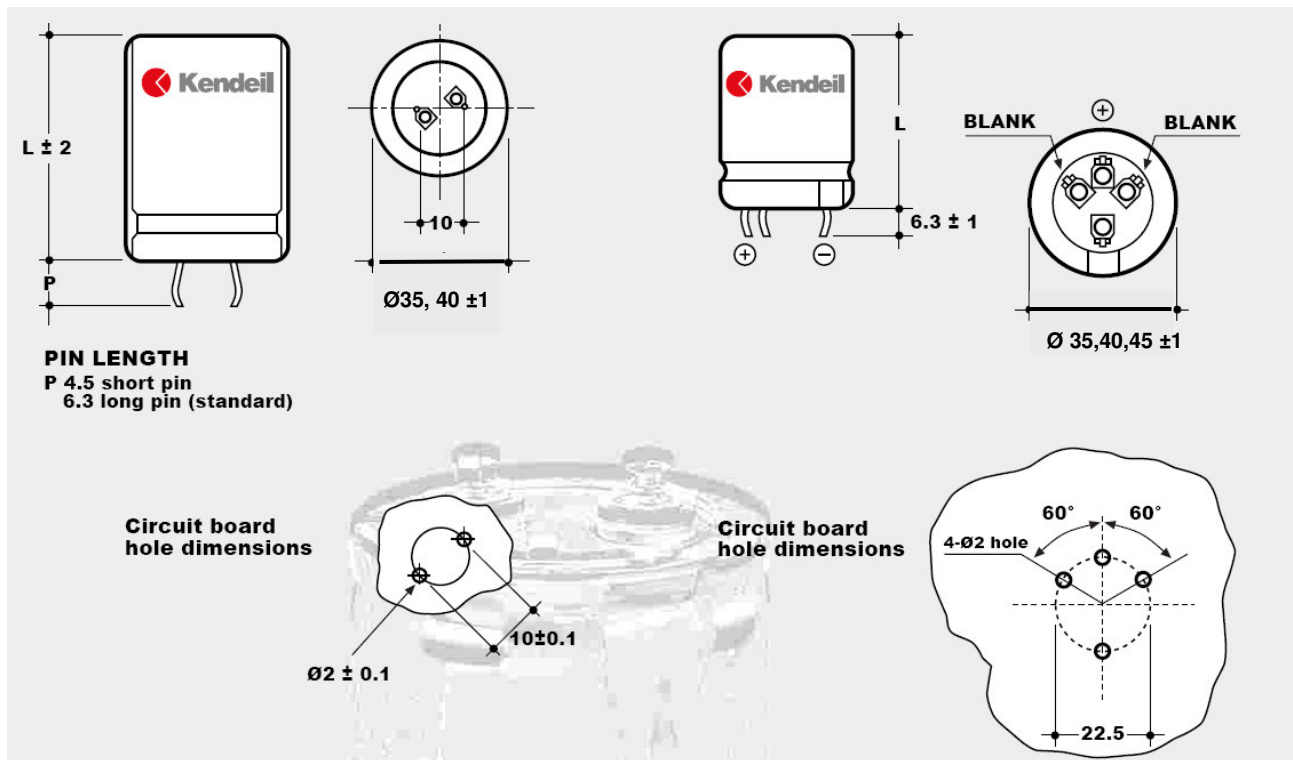
Preliminary Version

RoHS Compliant
Directive 2002/95/EC

- 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.



NOTE: Dimensions in mm

SPECIFICATIONS

Temperature Range	Operating: -40°C +85°C [Environmental classification 40/ 85 / 56 IEC-68] Storage : Preferably below +25°C, not exceeding +40°C																													
Rated Voltage Range (V _r)	from 400V to 450V DC																													
Surge Voltage (V _p)	V _p = 1.10 V _r																													
Rated Capacitance Range	from 1000 µF to 2700 µF																													
Capacitance Tolerance	±20% at 100 Hz, 20°C [M class IEC-62] on request: -10% +30% at 100 Hz, 20°C [Q class IEC-62]																													
Leakage Current (I _L) (5 min, 20°C)	max I _L = 0.006 C _r V _r + 4 µA																													
Ripple current (I _r)	Refer to table at 85°C and 100Hz : <table border="1"> <tr> <td>FREQUENCY</td> <td>50Hz</td> <td>100Hz</td> <td>500 Hz</td> <td>1000Hz</td> <td>>10kHz</td> </tr> <tr> <td>MULTIPLIER</td> <td>0.88</td> <td>1.0</td> <td>1.45</td> <td>1.5</td> <td>1.55</td> </tr> </table> <table border="1"> <tr> <td>AMBIENT TEMP</td> <td>35°C</td> <td>45°C</td> <td>55°C</td> <td>65°C</td> <td>75°C</td> <td>85°C</td> <td>95°C</td> </tr> <tr> <td>MULTIPLIER</td> <td>2.2</td> <td>2.1</td> <td>1.8</td> <td>1.6</td> <td>1.4</td> <td>1.0</td> <td>0.5</td> </tr> </table> Maximum internal temperature 98°C		FREQUENCY	50Hz	100Hz	500 Hz	1000Hz	>10kHz	MULTIPLIER	0.88	1.0	1.45	1.5	1.55	AMBIENT TEMP	35°C	45°C	55°C	65°C	75°C	85°C	95°C	MULTIPLIER	2.2	2.1	1.8	1.6	1.4	1.0	0.5
FREQUENCY	50Hz	100Hz	500 Hz	1000Hz	>10kHz																									
MULTIPLIER	0.88	1.0	1.45	1.5	1.55																									
AMBIENT TEMP	35°C	45°C	55°C	65°C	75°C	85°C	95°C																							
MULTIPLIER	2.2	2.1	1.8	1.6	1.4	1.0	0.5																							
Insulation Resistance	At 100V DC for 1 min is >100 MΩ across insulating sleeve and terminals.																													
Vibration Resistance	Frequency range: 10 Hz to 55 Hz, amplitude 0.75 mm max acceleration 10 G for 3x2 h																													
Life test	After 2,000 hours application of rated voltage at 85°C capacitors meet characteristics aside	Cap change ≤ 20% tan δ ≤ 200% Leakage current (I _L) < initial limit Impedance (Z) ≤ 200%																												
Shelf life	After leaving capacitors under no load for 500 hours at 85°C, when restored at 20°C meet specifications aside	Cap change ≤ ±15% tan δ ≤ 150% Leakage current (I _L) < initial limit																												
Useful life	> 200000 h 40°C > 6000 h 85°C (> 12.000H 85°C under testing)																													
Failure percentage Failure rate	≤ 1% (during working life) ≤ 70 fit (70 10 ⁻⁹ /h)																													
Self inductance	Approx. 20 nH																													
Reference standards	CECC 30.300 IEC 60384-4 LONG LIFE GRADE																													

K26 TYPE STANDARD RATINGS

RATED VOLTAGE VDC	Capacitance	Ø x L	Tan δ	ESR	Z	Ir a.c.	PART NUMBER
	µF	mm	MAX 100 Hz 20°C	TYP mΩ 100 Hz 20°C	TYP mΩ 10KHz 20°C	A max 100 Hz 85°C	Termination digit excluded
400V	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
	2000	40x105	0.12	61	44	7.6	K26400202_PM0F105
	2200	45x105	0.13	47	40	7.8	K26400222_PM0N105
	2700	45x105	0.13	46	39	9.2	K26400272_PM0N105

RATED VOLTAGE VDC	Capacitance	Ø x L	Tan δ	ESR	Z	Ir a.c.	PART NUMBER
	µF	mm	MAX 100 Hz 20°C	TYP mΩ 100 Hz 20°C	TYP mΩ 10KHz 20°C	A max 100 Hz 85°C	Termination digit excluded
420V	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
	2200	45x105	0.13	47	40	7.8	K26420222_PM0N105

RATED VOLTAGE VDC	Capacitance	Ø x L	Tan δ	ESR	Z	Ir a.c.	PART NUMBER
	µF	mm	MAX 100 Hz 20°C	TYP mΩ 100 Hz 20°C	TYP mΩ 10KHz 20°C	A max 100 Hz 85°C	Termination digit excluded
450V	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
	2200	45x105	0.13	47	40	7.8	K26450222_PM0N105

PLEASE TO CONTACT OUR TECHNICAL SERVICE FOR MORE INFORMATION