

K16 TYPE -40°C +85°C 5000H

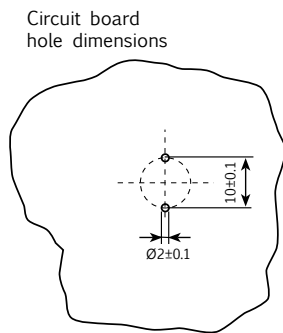
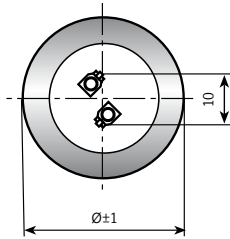
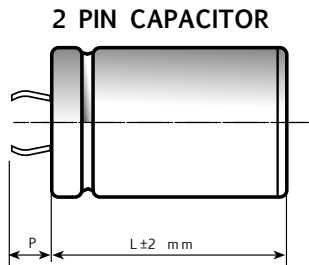
RoHS Compliant

- Surge-proof capacitor in aluminium can with insulation sleeve
- Safety vent at bottom case or aside case.
- Snap in terminals for PCB mounting.
- 2-4 pins available (d=45mm: 4 pins only)
- Large size snap in

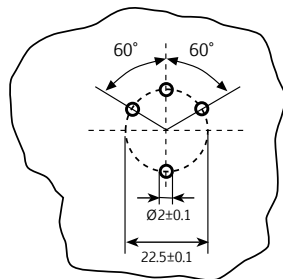
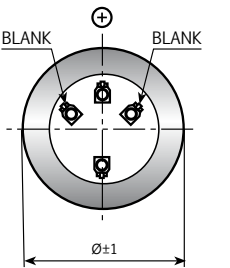
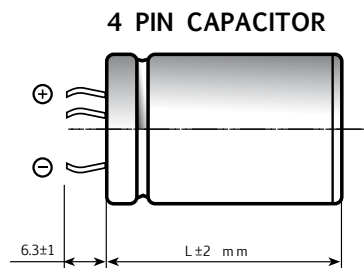
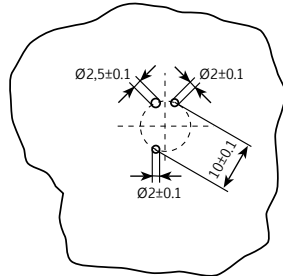
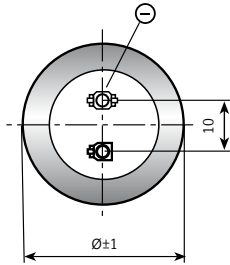
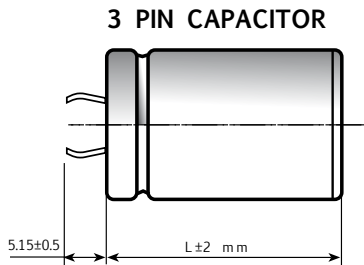
APPLICATIONS

Professional switch mode power supplies. Professional power electronics.

Dimensions in mm.



PIN LENGTH
 P 4.5 short pin
 P 6.3 long pin (standard)



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

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

SPECIFICATIONS

Temperature Range	Operating: -40°C +85°C 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 820 µF to 2700 µF	
Capacitance Tolerance	±20% at 100 Hz, 20°C [M class IEC-62]	
Leakage Current (I_L) (mA, 5 min, 20°C)	max I _L = 0.006 C _r V _r + 4 µA At 85°C max I _L = 0.04 C _r V _r µA	Kendeil product limit: I _L = 0.003 C _r V _r
Ripple current (I_r)	Refer to table at 85°C and 100Hz :	
	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
	Maximum internal temperature	98°C
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 ≤ 10% tan δ ≤ 130% Leakage current (I _L) < initial limit Impedance (Z) ≤ 130%
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 (V_n, Temp rated I ripple applied)	> 5,000 h at 85°C	
Failure percentage Failure rate	≤ 1% (during useful life) ≤ 33 fit (33 10 ⁻⁹ /h)	
Self inductance	Approx. 20 nH	
Reference standards	CECC 30.301 - IEC 60384-4 LONG LIFE GRADE	

K16 TYPE STANDARD RATINGS

**RATED
VOLTAGE
VDC**

400V

Cap μF	$\varnothing \times L$ mm	Tan δ MAX 100 Hz 20°C	ESR TYP m Ω 100 Hz 20°C	Z TYP m Ω 10 kHz 20°C	I _r a.c. A max 100 Hz 85°C	PART NUMBER termination digit excluded
1000	35x77	0.10	90	80	4.50	K16400102_PM0E077
1200	40x60	0.10	89	79	4.50	K16400122_PM0F060
1500	40x77	0.10	75	64	5.80	K16400152_PM0F077
1500	45x60	0.10	80	70	4.90	K16400152_PM0N060
1800	40x97	0.10	60	50	6.60	K16400182_PM0F097
1800	45x77	0.10	70	60	6.00	K16400182_PM0N077
1800	50x60	0.10	70	60	6.30	K16400182_PM0V060
2000	40x105	0.10	45	35	7.60	K16400202_PM0F105
2200	45x97	0.10	55	45	7.30	K16400222_PM0N097
2200	50x77	0.10	55	45	7.40	K16400222_PM0V077
2700	45x105	0.10	39	27	9.00	K16400272_PM0N105
3300	50x105	0.10	37	25	10.00	K16400332_PM0V105

**RATED
VOLTAGE
VDC**

420V

Cap μF	$\varnothing \times L$ mm	Tan δ MAX 100 Hz 20°C	ESR TYP m Ω 100 Hz 20°C	Z TYP m Ω 10 kHz 20°C	I _r a.c. A max 100 Hz 85°C	PART NUMBER termination digit excluded
820	35x77	0.15	220	200	3.65	K16420821_PM0E077
1000	40x60	0.15	200	170	4.90	K16420102_PM0F060
1200	40x77	0.15	190	150	4.90	K16420122_PM0F077
1200	45x60	0.15	180	140	4.90	K16420122_PM0N060
1500	40x97	0.15	140	110	5.56	K16420152_PM0F097
1500	45x77	0.15	150	120	5.36	K16420152_PM0N077
1500	50x60	0.10	150	110	4.70	K16420152_PM0V060
1800	40x105	0.15	120	100	6.40	K16420182_PM0F105
1800	50x77	0.10	120	106	5.60	K16420182_PM0V077
2200	45x97	0.15	112	102	6.70	K16420222_PM0N097
2200	50x105	0.10	112	100	7.00	K16420222_PM0V105
2700	50x105	0.10	101	102	7.40	K16420272_PM0V105

**RATED
VOLTAGE
VDC**

450V

Cap μF	$\varnothing \times L$ mm	Tan δ MAX 100 Hz 20°C	ESR TYP m Ω 100 Hz 20°C	Z TYP m Ω 10 kHz 20°C	I _r a.c. A max 100 Hz 85°C	PART NUMBER termination digit excluded
820	35x77	0.15	215	195	3.65	K16450821_PM0E077
1000	40x60	0.15	195	165	4.90	K16450102_PM0F060
1200	40x77	0.15	183	142	4.90	K16450122_PM0F077
1200	45x60	0.15	180	140	4.90	K16450122_PM0N060
1500	40x97	0.15	140	110	5.56	K16450152_PM0F097
1500	45x77	0.15	150	120	5.36	K16450152_PM0N077
1500	50x60	0.10	140	110	4.7	K16450152_PM0V060
1800	45x97	0.15	128	110	6.50	K16450182_PM0N097
1800	50x77	0.10	128	108	5.6	K16450182_PM0V077
2200	45x105	0.15	112	102	6.80	K16450222_PM0N105
2700	50x105	0.10	112	102	7.4	K16450272_PM0V105