

K05 TYPE

- Surge-proof electrolytic capacitor in aluminium can with insulation sleeve.
- Safety vent at bottom case or aside case.
- Snap in terminals for PCB mounting.

Very high CV for unit volume with low ESR.
High ripple current, in small dimensions case size.
Extended temperature range with outstanding reliability.



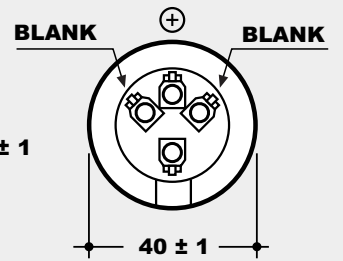
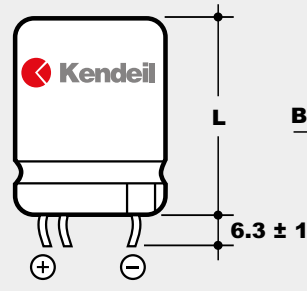
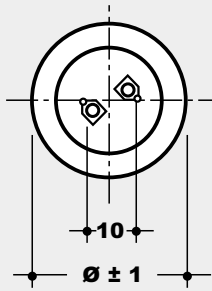
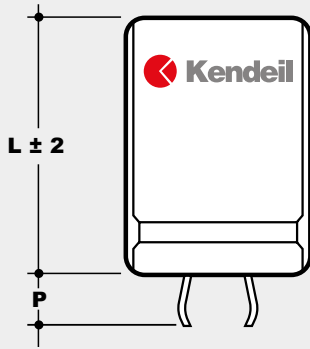
APPLICATIONS

Professional switch mode power supplies. Professional power electronics.

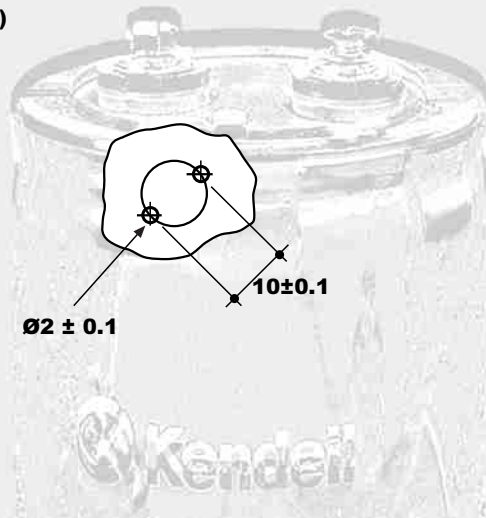
SPECIFICATIONS

GENERAL CHARACTERISTICS

Temperature Range	Operating: -40°C +105°C Storage : Preferably below +25°C, not exceeding +40°C	[Environmental classification 40/105/56 IEC-68]							
Rated Voltage Range (V_r)	from 16V to 450V DC								
Surge Voltage (V_p)	V _p = 1.15 V _r (V _r ≤ 250V DC) V _p = 1.10 V _r (V _r > 250V DC)								
Rated Capacitance Range	from 68 µF to 47,000 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 = 0.02 C _r V _r µA	Kendeil product limit : I _L = 0.003 C _r V _r							
Ripple current (I_r)	Refer to table at 105°C and 100Hz. For different temperature and frequency multiplier must be used as follows:								
	FREQUENCY	50Hz	100Hz	500 Hz	1000Hz	>10kHz			
	MULTIPLIER (0-25V V _r DC)	0.91	1.0	1.15	1.15	1.2			
	MULTIPLIER (40-100V V _r DC)	0.88	1.0	1.35	1.40	1.45			
	MULTIPLIER (160-450V V _r DC)	0.88	1.0	1.45	1.50	1.55			
	AMBIENT TEMP.	35°C	45°C	55°C	65°C	75°C	85°C	95°C	105°C
	MULTIPLIER	3.0	2.80	2.60	2.40	2.20	1.80	1.50	1.0
	Maximum internal temperature	108°C							
Insulation Resistance	At 100V DC for 1 min is >100 MΩ across insulating sleeve and terminals.								
Vibration Resistance	Frequency range: 10 Hz to 500 Hz, amplitude 0.75 mm max acceleration 10g for 3x2 h								
Life test	After 2,000 hours application of rated voltage at 105°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	250,000 h at 40°C 15,000 h at 85°C 5,000 h at 105°C								
Failure percentage	1% (during useful life)								
Failure rate	40 fit (40 10 ⁻⁹ /h (V _r 160V DC)								
Self inductance	Approx. 20 nH								
Reference standards	CECC 30.301 - IEC 60384-4 LONG LIFE GRADE								



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



Circuit board hole dimensions

