Koas

KL Conductive Polymer Aluminum Solid Capacitors

+105℃， Higher Ripple Current, Long Life , Series KL .

Features:

•105℃、 5000 hours assured
•Low ESR with Higher Ripple Current
•RoHS Compliance

Photo

Marking color: Blue

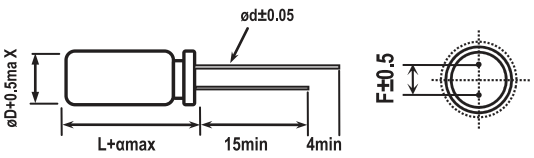
Applications

Suitable for long duration electronic device, computer motherboard, LED Driver, LED supply, etc

Specifications

No.	Item	Performance		
1	Temperature range (℃)	-55 to +105		
2	Leakage current (μA)	Less than 0.2CV or 280 whichever is larger (after two minutes) C: Rated Capacitance(μF); V: Rated voltage(V) 20℃		
3	Capacitance tolerance (%)	±20 (20℃,120Hz)		
4	Tangent of the loss angle (Tan δ)	0.10		20℃,120Hz
5	ESR	See Standard Ratings		20℃,100K-300KHz
6	Temperature Characteristics, Impedance Ratio	At-55℃ 100KHz(Low Temperature)	$Z_{-55℃}/Z_{+20℃} \leqslant 1.25$	
		At +105℃ 100KHz(High Temperature)	$Z_{+105℃}/Z_{+20℃} \leqslant 1.25$	
7	Endurance (+105℃ 5000hours Rated voltage Applied)	Test time	5000hours	
		Leakage current	The initial specified value or less	
		Percentage of capacitance change	Within ±20% of initial value	
		ESR	150% or less of the initial specified value	
		Tangent of the loss angle	150% or less of the initial specified value	
8	Humidity Test (+60℃ 90% to 95% RH 1000 hours No applied voltage)	Test time	1000hours	
		Leakage current	The initial specified value or less	
		Percentage of capacitance change	Within ±20% of initial value	
		ESR	150% or less of the initial specified value	
		Tangent of the loss angle	150% or less of the initial specified value	
9	Surge Voltage Test (At normal temperature, charge at surge voltage for 30 second and discharge via a 1KΩ protective resistor for 330 second. Repeat for 1000 cycles)	Test time	1000 cycles	
		Leakage current	The initial specified value or less	
		Percentage of capacitance change	Within ±20% of initial value	
		ESR	150% or less of the initial specified value	
		Tangent of the loss angle	150% or less of the initial specified value	
10	Applicable standards	JIS-C-5101-4		

Diagram of Dimensions



øD	4X5.4	5X5.4	5X7	5X8	5X9	6.3X5.4	6.3X6	6.3X7	6.3X8~	8	10
F	1.5	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.5	3.5	5.0
ød	0.5	0.5	0.5	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6
α	L＜8： α =1.0 / L≥8： α =1.5										

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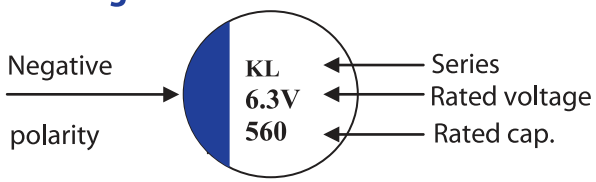
Marking



Frequency Coefficient for Ripple Current

Frequency (Hz)	120≤F＜1K	1K≤F＜10K	10K≤F＜100K	100K≤F＜500K
Coefficient	0.05	0.3	0.7	1

Dimension & Permissible Ripple Current

Dimension:øDXL(mm)
Ripple Current: mA/rms at 100KHz,105 ℃

V.DC / Contents / μ F	2.5V			4V			6.3V		
	øD× L	ESR mΩ/100KHz 20℃	Ripple Current (mA/rms,105℃)	øD × L	ESR mΩ/100KHz 20℃	Ripple Current (mA/rms,105℃)	øD× L	ESR mΩ/100KHz 20℃	Ripple Current (mA/rms,105℃)
470	6.3X8	12	4000				8X8	10	4830
560	6.3X8	12	4000	8X8	10	4830	8X11.5	7	5580
680	8X8	10	4830	8X8	10	4830	8X11.5	7	5580
820	8X8	7	4830	8X11.5	7	5580	8X11.5	7	5580
1000	8X8	7	4830	8X11.5	7	5580	10X12.5	7	5580
1200	8X11.5	7	5580	8X11.5	7	5580	10X12.5	7	5580
1500	10X12.5	7	5580	10X12.5	7	5580			

V.DC / Contents / μ F	10 V			16V		
	øD× L	ESR mΩ/100KHz 20℃	Ripple Current (mA/rms,105℃)	øD × L	ESR mΩ/100KHz 20℃	Ripple Current (mA/rms,105℃)
100				6.3X8	12	4000
180				8X8	12	4830
220				8X8	12	4830
270				8X11.5	11	5580
330				8X11.5	11	5580
470	8X11.5	12	5580	8X11.5	11	5580
560	10X12.5	12	5580	10X12.5	11	5580
680	10X12.5	12	5580	10X12.5	11	5580
820	10X12.5	12	5580			