

KU Conductive Polymer Aluminum Solid Capacitors

+105 °C , Higher Ripple Current, lower ESR , Series KU .

Features:

- 105 °C 、 2000 hours assured
- Low ESR with large ripple current
- RoHS Compliance

Applications

Suitable for DC-DC Converters, Voltage Regulators, Decoupling Applications for Computer Motherboards, etc.

Specifications

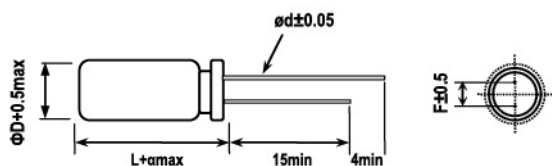
Photo



Marking color: Blue

No.	Item	Performance	
1	Temperature range (°C)	-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°C	
3	Capacitance tolerance (%)	±20 (20°C,120Hz)	
4	Tangent of the loss angle (Tan δ)	0.10	20°C,120Hz
5	ESR	See Standard Ratings	
6	Temperature Characteristics, Impedance Ratio	At -55°C 100KHz(Low Temperature)	$Z_{-55^{\circ}\text{C}}/Z_{+20^{\circ}\text{C}} \leq 1.25$
		At +105°C 100KHz(High Temperature)	$Z_{+105^{\circ}\text{C}}/Z_{+20^{\circ}\text{C}} \leq 1.25$
7	Endurance (+105°C 2000hours Rated voltageApplied)	Test time	2000hours
		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°C 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	1000cycles
		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

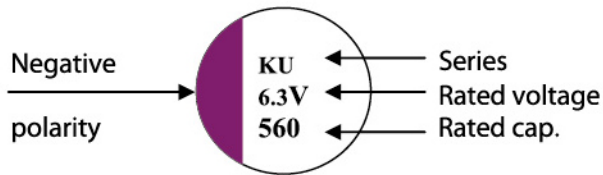


Lead Spacing and Diameter Unit: mm

	5X9	6.3X8~	8	10
φD	2.0	2.5	3.5	5.0
F	0.6	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)	$120 \leq F < 1K$	$1K \leq F < 10K$	$10K \leq F < 100K$	$100K \leq F < 500K$
Coefficient	0.05	0.3	0.7	1

Dimension & Permissible Ripple Current

Dimension: $\varnothing \times L$ (mm)
Ripple Current: mA/rms at 100KHz, 105°C

V.DC Contents μF	2.5V			4V			6.3V		
	$\varnothing \times L$	ESR $m\Omega/100KHz$ 20°C	Ripple Current (mA/rms, 105°C)	$\varnothing \times L$	ESR $m\Omega/100KHz$ 20°C	Ripple Current (mA/rms, 105°C)	$\varnothing \times L$	ESR $m\Omega/100KHz$ 20°C	Ripple Current (mA/rms, 105°C)
330							6.3X8	8	4000
390	6.3X8	7	3360	6.3X8	8	3360	8X8	7	4830
470	5X9	7	4000	6.3X8	8	4000	8X8	7	4830
560	6.3X8	7	4000	6.3X8	7	4000			
560	8X8	7	4830	8X8	7	4830	8X8	7	4830
680	6.3X8	7	4000	8X8	7	4830	8X8	7	4830
680	8X8	7	4830	8X11.5	7	5580	8X11.5	7	5580
820	6.3X8	7	4830	8X8	7	4830	8X8	7	4830
820	8X8	7	4830	8X11.5	7	5580	8X11.5	7	5580
820	8X11.5	7	5580	10X12.5	7	5580	10X12.5	7	5580
1000	8X8	7		8X8	7	4830	8X11.5	7	5580
1000	8X11.5	7	5580	8X11.5	7	5580	10X12.5	7	6100
1200	8X8	7	4830	8X11.5	7	5580	8X11.5	7	6100
1200	8X11.5	7	5580	10X12.5	7	5580	10X12.5	7	6100
1500	8X11.5	7	5580	8X11.5	7	5580	10X12.5	7	6100
1500	10X12.5	7	6100	10X12.5	7	6100			
1800	10X12.5	7	6100						
2200	10X12.5	7	6100						

Dimension & Permissible Ripple Current

Dimension: \varnothing DxL(mm)
Ripple Current: mA/rms at 100KHz, 105 °C

VDC Contents μ F	10V			16V		
	\varnothing D x L	ESR m Ω /100KHz 20°C	Ripple Current (mA/rms, 105°C)	\varnothing D x L	ESR m Ω /100KHz 20°C	Ripple Current (mA/rms, 105°C)
180				8X8	11	4830
220	6.3X8	12	4000	8X8	11	4830
270	6.3X8	12	4000	8X8	11	4830
330	8X8	11	4830	8X11.5	11	5580
390	8X8	11	4830	8X11.5	11	5580
470	8X8	11	4830	8X11.5	11	5580
470	8X11.5	11	5580	8X11.5	11	5580
560	8X8	11	4000	10X12.5	11	6100
560	8X11.5	11	5580	10X12.5	11	6100
680	8X11.5	11	4830			
680	10X12.5	11	5580	10X12.5	11	6100
820	8X11.5	11	5580			
820	10X12.5	11	6100	10X12.5	11	6100
1000	10X12.5	11	6100	10X12.5	11	6100
1200	10X12.5	11	6100			