Koas

VT Conductive Polymer Aluminum Solid Capacitors

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

Photo

Marking color: Blue

Features:

- •105℃、 5000 hours assured
- •Low ESR with large ripple current， SMT type
- •RoHS Compliance

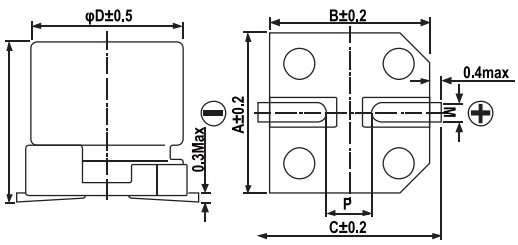
Applications

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 (Tanδ)	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 1000cycles)	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



Lead spacing and Diameter Unit:mm

∅D	L	A	B	C	W	P±0.2
6.3	5.9+0.1/-0.3	6.6	6.6	7.2	0.5~0.8	2.0
8	6.7±0.3	8.4	8.4	9.0	0.7~1.1	3.1
8	12.0±0.5	8.4	8.4	9.0	0.7~1.1	3.1
10	7.7±0.3	10.4	10.4	11.0	0.7~1.3	4.7
10	12.6+0.1/-0.4	10.4	10.4	11.0	0.7~1.3	4.7

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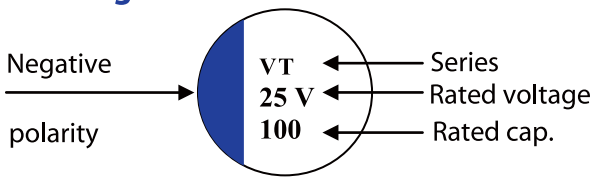
Marking



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 μF	4V			6.3V			10V		
	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℃)
56							6.3X5.9	16	2600
68							6.3X5.9	16	2600
120				6.3X5.9	16	2600	8X6.7	14	3200
150	6.3X5.9	16	2600	6.3X5.9	16	2600	8X6.7	14	3200
270	8X6.7	16	3200	8X6.7	14	3200	8X12	11	4830
330	8X6.7	14	3200	8X12	14	4830	8X12	11	4830
470	8X6.7	14	3200	8X12	14	4830	10X9.9	11	4830
560	8X6.7	11	3200	8X12	11	4830	10X12.6	11	5580
680	10X9.9	11	4830	10X12.6	11	5580	10X12.6	11	5580

V.DC / Contents μF	16V			25V		
	øD×L	ESR mΩ/100KHz 20℃	Ripple Current (mA/rms,105℃)	øD×L	ESR mΩ/100KHz 20℃	Ripple Current (mA/rms,105℃)
39	6.3X5.9	20	2600	8X12	40	4830
68	6.3X5.9	20	2600	8X12	40	4830
82	8X6.7	17	3200	10X12.6	37	5580
100	8X6.7	17	3200	10X12.6	37	5580
120	10X9.9	14	4830			
180	8X12	14	4830			
270	10X9.9	14	4830			
330	10X12.6	12	5580			