

## VT Conductive Polymer Aluminum Solid Capacitors

+105 °C, Higher Ripple Current, Long Life, Series VT.

### Features:

- 105 °C, 5000 hours assured
- Low ESR with large ripple current, SMT type
- RoHS Compliance

### Photo



Marking color: Blue

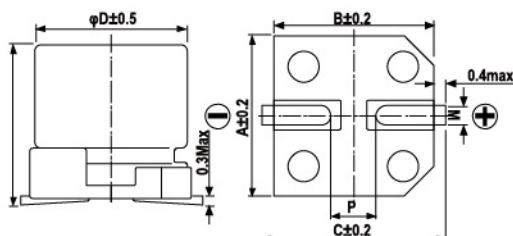
### Applications

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

### Specifications

No.	Item	Performance	
1	Temperature range (°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 (Tanδ)	0.10	20°C, 120Hz
5	ESR	See Standard Ratings	
6	Temperature Characteristics, Impedance Ratio	At -55°C 100KHz(Low Temperature)	$Z_{-55°C}/Z_{+20°C} \leq 1.25$
		At +105°C 100KHz(High Temperature)	$Z_{+105°C}/Z_{+20°C} \leq 1.25$
7	Endurance (+105°C 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°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 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

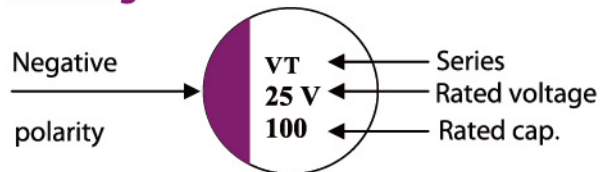


### Lead Spacing and Diameter Unit: mm

∅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	7±0.5	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	10.5±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:  $\varnothing$ D×L(mm)  
Ripple Current: mA/rms at 100KHz, 105 °C

V.DC Contents μ F	4V			6.3V			10V		
	ϕD×L	ESR mΩ/100KHz 20 °C	Ripple Current (mA/rms, 105 °C)	ϕD×L	ESR mΩ/100KHz 20 °C	Ripple Current (mA/rms, 105 °C)	ϕD×L	ESR mΩ/100KHz 20 °C	Ripple Current (mA/rms, 105 °C)
100							6.3X5.9	16	2600
120							6.3X5.9	16	2600
150				6.3X5.9	16	2600	6.3X5.9	16	2600
270	6.3X5.9	16	2600	6.3X5.9	16	2600	8X7	16	3200
330	8X7	16	3200	8X7	14	3200	8X7	16	3200
470	8X7	14	3200	8X12	14	4830	8X7	16	3200
560	8X7	14	3200	8X12	14	4830	10X10.5	15	4830
680	8X7	14	3200	8X12	12	4830	10X12.6	12	5280
820	10X10.5	12	4830	10X12.6	12	5280	10X12.6	12	5280
1000	10X12.6	12	5280	10X12.6	12	5280	10X12.6	12	5280
1800	10X12.6	12	5280	10X12.6	12	5280			

V.DC Contents μ F	16V			25V			35V		
	ϕD×L	ESR mΩ/100KHz 20 °C	Ripple Current (mA/rms, 105 °C)	ϕD×L	ESR mΩ/100KHz 20 °C	Ripple Current (mA/rms, 105 °C)	ϕD×L	ESR mΩ/100KHz 20 °C	Ripple Current (mA/rms, 105 °C)
47	6.3X5.9	16	2600	8X7	40	1500	8X7	50	1500
68	6.3X5.9	16	2600	8X7	40	1500	8X7	50	1500
82	8X7	15	8X7	8X7	40	2100	8X7	50	2100
100	8X7	15	8X7	8X7	40	3200	8X12	40	2850
220	8X7	15	8X12	8X12	30	3820	8X12	40	3930
330	8X12	12	10X12.6	8X12	30	4130	10X12.6	30	4320
470	10X10.5	12	10X12.6	10X12.6	28	4500	10X12.6	30	4320
680	10X12.6	12							
820	10X12.6	12							