

VT

Series Chip Type Aluminum Electrolytic Capacitors

Features

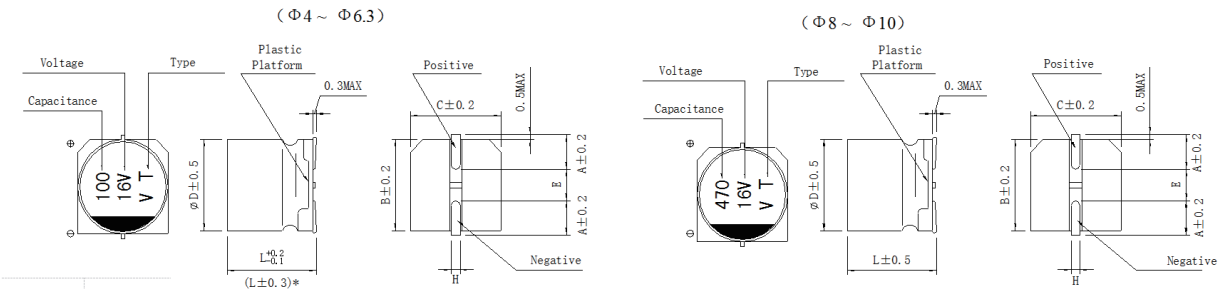
- Case diameter: Φ 4mm – Φ 10mm.
- Reflow soldering is available.
- Available for high density surface mounting.
- (-40 ~ +105°C) Operating over wide temperature range.
- Adapted to the ROHS directive.



Specifications

Items	Performance Characteristics							
Operating Temperature Range	-40°C ~ +105°C							
Rated Voltage Range	6.3V ~ 50V							
Nominal Capacitance Range	0.1 ~ 1500 μ F							
Capacitance Tolerance	\pm 20% (20°C , 120Hz)							
Leakage Current	I \leq 0.01CRVR or 3(μ A) Whichever is greater(at 20°C,After 2 minutes) CR: Nominal Capacitance (μ F) UR: Rated voltages (V)							
Dissipation Factor (Max) 20°C, 120Hz	U _r (V)	4	6.3	10	16	25	35	50
	tg δ	0.35	0.28	0.24	0.20	0.16	0.14	0.12
Load Life	After 1000 hours' application of rated voltage at 105°C, the capacitor shall meet the following requirement:							
	Capacitance Change	Within \pm 20% of the initial value						
	Dissipation Factor	Not more than 200% of the initial specified value						
Shelf Life	After storage for 1000 hours at +105°C, the capacitors shall meet the requirement of load life above							
	U _r (V)	4	6.3	10	16	25	35	50
	Z(-25°C)/Z(+20°C)	7	4	3	2	2	2	2
Resistance to Soldering Heat	Z(-40°C)/Z(+20°C)	15	8	6	4	4	3	3
	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the following requirement.							
	Capacitance Change	Within \pm 10% of the initial value						
	Dissipation Factor	Not more than the initial specified value						
Resistance to Soldering Heat	Leakage Current							
	Not more than the initial specified value							

Case Size Table



* Apply to Φ6.3×7.7

	4 × 5.4	5 × 5.4	6.3 × 5.4	6.3 × 7.7	8 × 6.5	8 × 10.5	10 × 10.5
A	1.8	2.1	2.4	2.4	2.9	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3
E	1.0	1.3	2.2	2.2	2.3	3.1	4.5
L	5.4	5.4	5.4	7.7	6.5	10.5	10.5
H	0.5 ~ 0.8					0.8 ~ 1.1	

Nominal Capacitance, Rated Voltage, Rated Ripple Current and Case Size Table

V μF	6.3		10		16		25		35		50	
	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA	D×L mm	I~ mA
0.1											4×5.4	2.3
0.22											4×5.4	3.4
0.33											4×5.4	4.1
0.47											4×5.4	5
1.0											4×5.4	10
2.2											4×5.4	16
3.3									4×5.4	13	4×5.4	16
4.7							4×5.4	22	4×5.4	22	5×5.4	23
10					4×5.4	28	5×5.4	28	5×5.4	30	6.3×5.4	32
22	4×5.4	29	5×5.4	30	5×5.4	39	6.3×5.4	55	6.3×5.4	60	6.3×7.7	51
33	5×5.4	34	5×5.4	34	5×5.4	35	6.3×5.4	65	8×6.5	84	6.3×7.7	70
47	5×5.4	46	6.3×5.4	48	6.3×5.4	70	6.3×5.4	70	6.3×7.7	80	6.3×7.7	80
100	6.3×5.4	71	6.3×5.4	69	6.3×5.4	70	6.3×7.7	100	8×10.5	296	8×10.5	230
220	6.3×7.7	120	6.3×7.7	120	6.3×7.7	120	8×10.5	320	10×10.5	435	10×10.5	375
330	8×10.5	290	8×10.5	305	8×10.5	425	10×10.5	450	10×10.5	450		
470	8×10.5	330	8×10.5	340	8×10.5	340	10×10.5	490				
1000	8×10.5	340	10×10.5	410	10×10.5	450						
1500	10×10.5	475										

I~ = Rated ripple current (mA) (105°C, 120Hz)

Frequency Coefficient of Ripple Current

Frequency	50Hz	120Hz	300Hz	1KHz	10K~100Hz
Coefficient	0.70	1.00	1.17	1.36	1.50