

VN Series Chip Type Aluminum Electrolytic Capacitors

Features

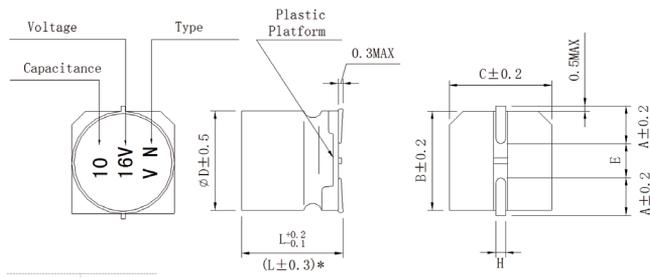
- Bi-polar.
- Reflow soldering is available.
- Available for high density surface mounting.
- Adapted to the ROHS directive.



Specifications

Items	Performance Characteristics						
Operating Temperature Range	-40°C ~ +85°C						
Rated Voltage Range	6.3V ~ 50V						
Nominal Capacitance Range	0.1 ~ 100μF						
Capacitance Tolerance	±20% (20°C , 120Hz)						
Leakage Current	I ≤ 0.05CRVR or 10(μA) Whichever is greater(at 20°C,after 2 minutes) CR: Nominal Capacitance (μF) UR: Rated voltages (V)						
Dissipation Factor (Max) 20°C, 120Hz	U _R (V)	6.3	10	16	25	35	50
	tgδ	0.26	0.22	0.20	0.20	0.20	0.18
Load Life	After 1000 hours' application of rated voltage at 85°C, with the polarity inverted every 250 hours, the capacitor shall meet the following requirement:						
	Capacitance Change	Within ±20% of the initial value					
	Dissipation Factor	Not more than 200% of the initial specified value					
	Leakage Current	Not more than the initial specified value					
Shelf Life	After storage for 1000 hours at +85°C, UR to be applied for 30 minutes, the capacitors shall meet the requirement of load life above						
Low Temperature Stability Impedance Ratio (120Hz)	U _R (V)	6.3	10	16	25	35	50
	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2
	Z(-40°C)/Z(+20°C)	8	6	4	4	3	3
Resistance to Soldering Heat	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 ±10% of the initial value					
	Dissipation Factor	Not more than the initial specified value					
	Leakage Current	Not more than the initial specified value					

Case Size Table



* Apply to $\phi 6.3 \sim 7.7$

	(mm)			
	4 × 5.4	5 × 5.4	6.3 × 5.4	6.3 × 7.7
A	1.8	2.1	2.4	2.4
B	4.3	5.3	6.6	6.6
C	4.3	5.3	6.6	6.6
E	1.0	1.3	2.2	2.2
L	5.4	5.4	5.4	7.7
H	0.5 ~ 0.8			

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										
0.1											4×5.4	2.3
0.22											4×5.4	3.3
0.33											4×5.4	4.1
0.47											4×5.4	4.9
1.0									4×5.4	10	4×5.4	8.4
2.2							4×5.4	13	5×5.4	17	5×5.4	13
3.3							5×5.4	20	5×5.4	21	5×5.4	17
4.7					4×5.4	14	6.3×5.4	35	6.3×5.4	35	6.3×5.4	20
10			4×5.4	18	5×5.4	26	6.3×7.7	50	6.3×7.7	54	6.3×7.7	36
22	5×5.4	28	6.3×5.4	40	6.3×5.4	45	6.3×7.7	61				
33	6.3×5.4	37	6.3×5.4	50	6.3×5.4	55						
47	6.3×5.4	45	6.3×7.7	61	6.3×7.7	75						
100	6.3×7.7	82										

I~ = Rated ripple current (mA) (85°C, 120Hz)

Frequency Coefficient of Ripple Current

Frequency	50Hz	120Hz	300Hz	1KHz	≥10KHz
Coefficient	0.70	1.00	1.17	1.36	1.50

SOLID

CHIP

MINIATURE

STANDARD

LOW-ESR

SWITCH-POWER

LIGHTING

SPECIAL

SNAP-IN

SCREW