

## VN Series

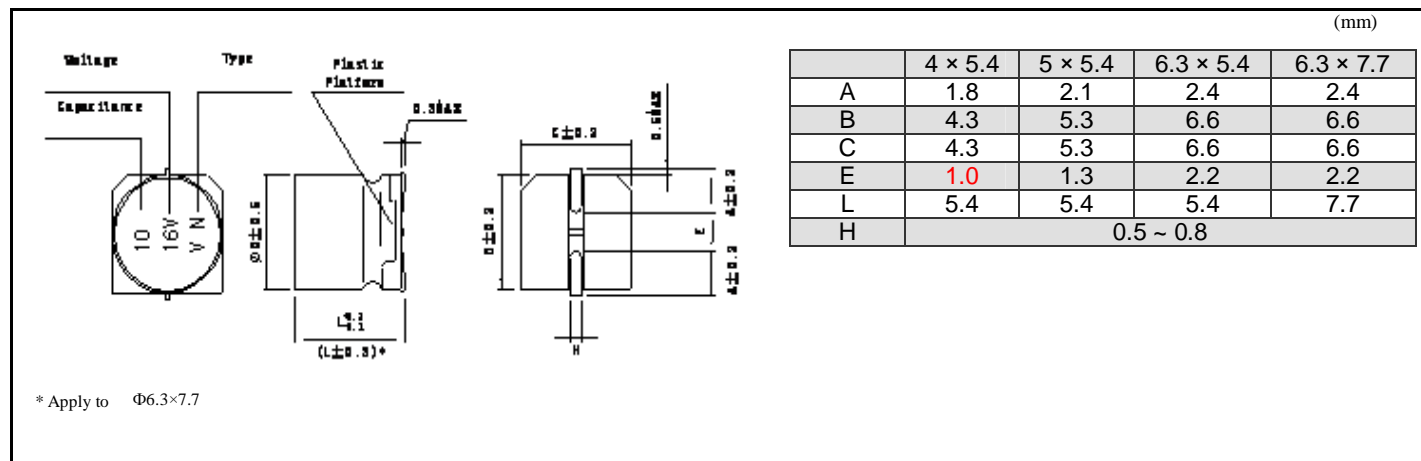
### Features

- ◆ Non-polar, 1000 hours at 85°C .
- ◆ Chip Type Aluminum Electrolytic Capacitors .
- ◆ Reflow soldering is available .
- ◆ Available for high density surface mounting .
- ◆ RoHS Compliant .

### Specifications

Item	Performance Characteristics						
Temperature Range	-40℃ ~ +85℃						
Rated Voltage Range	6.3V ~ 50Vdc						
Capacitance Range	1.0 ~ 100μF						
Capacitance Tolerance	±20% (20℃, 120Hz)						
Leakage Current (+20℃,max. )	I≤0.05C <sub>R</sub> V <sub>R</sub> or 10(μA) Whichever is greater(at 20℃,after 2 minutes) C <sub>R</sub> : Nominal Capacitance (μF)      U <sub>R</sub> : Rated voltages (V)						
Dissipation Factor (Max) (tgδ) 20℃, 120Hz	U <sub>R</sub> (V)	6.3	10	16	25	35	50
	tgδ	0.26	0.22	0.20	0.20	0.20	0.18
Endurance	After 1000 hours' application of rated voltage at 85℃, 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℃, U <sub>R</sub> to be applied for 30 minutes, the capacitors shall meet the requirement of load life above						
Low Temperature Stability Impedance Ratio (120Hz)	U <sub>R</sub> (V)	6.3	10	16	25	35	50
	Z(-25℃)/Z(+20℃)	4	3	2	2	2	2
	Z(-40℃)/Z(+20℃)	8	6	4	4	3	3
Resistance to Soldering Heat	The capacitors shall be kept on the hot plate maintained at 250℃ 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				

## Diagram of Dimensions



## Nominal capacitance, rated voltage, rated ripple current and case size table

Voltage	6.3		10		16		25		35		50	
Cap(μF)	Case Size	I~mA	Case Size	I~mA	Case Size	I~mA	Case Size	I~mA	Case Size	I~mA	Case Size	I~mA
1.0											4×5.4	8.4
2.2									4×5.4	8.4	5×5.4	13
3.3							4×5.4	12	5×5.4	16	5×5.4	17
4.7					4×5.4	12	5×5.4	16	5×5.4	18	6.3×5.4	20
10			4×5.4	17	5×5.4	23	6.3×5.4	27	6.3×5.4	29	6.3×7.7	36
22	5×5.4	28	6.3×5.4	33	6.3×5.4	37	6.3×7.7	50	6.3×7.7	54		
33	6.3×5.4	37	6.3×5.4	41	6.3×5.4	49	6.3×7.7	61				
47	6.3×5.4	45	6.3×7.7	61	6.3×7.7	75						
100	6.3×7.7	82										

Max Allowable Ripple Current (mA, rms) at 85°C 120Hz, Case Size ΦD×L(mm).

Above size is the standard size for our product. If you need special size please contact our sales offices .

## Frequency coefficient of ripple current

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