

VL Series

Features

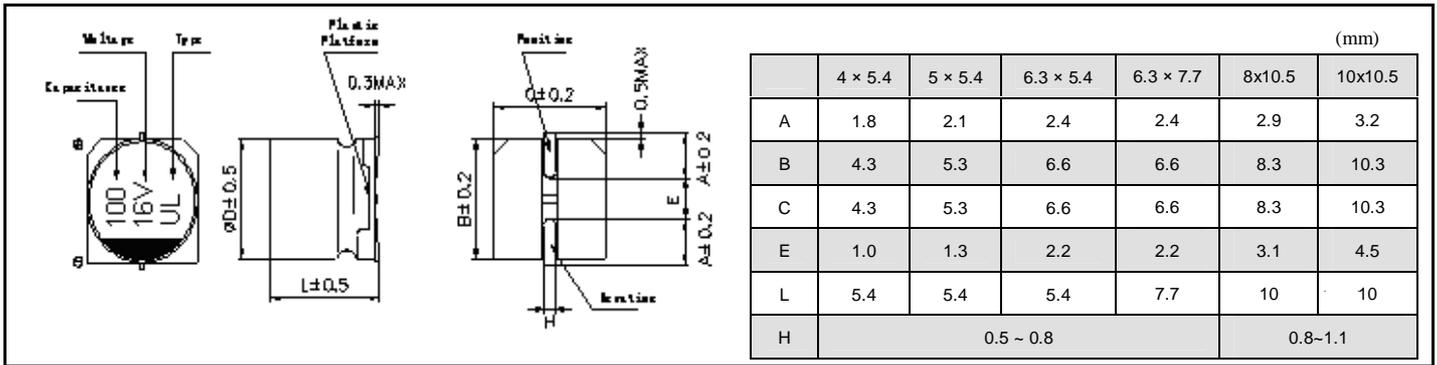
- ◆ Chip Type Aluminum Electrolytic Capacitors, 5000 hours at 105°C .
- ◆ Reflow soldering is available .
- ◆ available for high density surface mounting .
- ◆ (-55 ~ +105°C) Operating over wide temperature range .
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics						
Temperature Range	-55°C ~+105°C						
Rated Voltage Range	6.3V ~ 50Vdc						
Capacitance Range	1.0 ~ 1000μF						
Capacitance Tolerance	±20% (20°C, 120Hz)						
Leakage Current (+20°C,max.)	I ≤ 0.01C _R U _R or 3(μA) Whichever is greater(at 20°C, after 2 minutes) C _R : Nominal Capacitance (μF) U _R : Rated voltages (V)						
Dissipation Factor (Max) (tgδ) 20°C, 120Hz	U _R (V)	6.3	10	16	25	35	50
	tgδ	0.32	0.24	0.20	0.16	0.13	0.12
Endurance	After 5000 hours application of rated voltage at 105°C, the capacitor shall meet the following requirement:						
	Capacitance Change	Within ±30% of the initial value					
	Dissipation Factor	Not more than 300% of the initial specified value					
	Leakage Current	Not more than the initial specified value					
Shelf Life	After storage for 1000 hours at +105°C, 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(-55°C)/Z(+20°C)	10	7	5	3	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					

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										
1.0											4×5.4	6.2
2.2											4×5.4	11
3.3											4×5.4	14
4.7									4×5.4	15	5×5.4	19
10					4×5.4	18	5×5.4	25	5×5.4	25	6.3×5.4	30
22			5×5.4	30	5×5.4	30	6.3×5.4	42	6.3×5.4	42	6.3×7.7	49
33	5×5.4	35	5×5.4	35	6.3×5.4	48	6.3×5.4	48	6.3×7.7	57	8×10.5	77
47	5×5.4	36	6.3×5.4	50	6.3×5.4	50	6.3×7.7	63	8×10.5	92	8×10.5	92
100	6.3×5.4	60	6.3×7.7	81	6.3×7.7	81	8×10.5	116	10×10.5	151	10×10.5	151
220	6.3×7.7	101	8×10.5	141	10×10.5	216	10×10.5	216	10×10.5	216		
330	8×10.5	160	10×10.5	238	10×10.5	238	10×10.5	238				
470	10×10.5	254	10×10.5	254	10×10.5	254						
1000	10×10.5	313										

Max Allowable Ripple Current (mA, rms) at 105°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