

VE Series

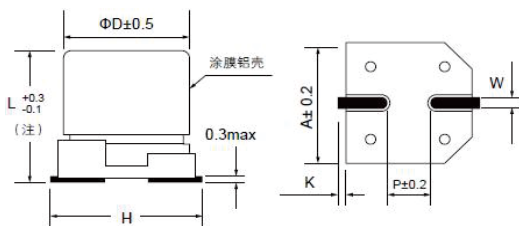
- Recommended Applications: standard
- Load life 2,000 hours at 105°C
- RoHS Compliant



◆ SPECIFICATIONS

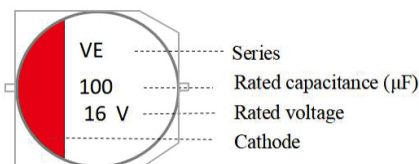
Item	Performance Characteristics
Category Temperature Range	-55 ~ +105°C
Working Voltage Range	2.5 ~ 50Vdc
Capacitance Range	22 ~ 1,200 μF
Capacitance Tolerance	±20% (at 20°C and 120Hz)
Dissipation Factor (tanδ) (at 20°C, 120Hz)	Rated Voltage (V) 2.5~50
	Tanδ(Max) 0.12
Leakage Current	I=0.2CV or 300 μA, whichever is greater I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Impress the rated voltage for 2 minutes
Low Temperature Characteristics Impedance Ratio(MAX)	Z(-25°C) / Z(+25°C) ≤ 1.15 at 100KHz Z(-55°C) / Z(+25°C) ≤ 1.25 at 100KHz
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for 2,000 hours at 105°C.
	Capacitance change ≅ ±20% of the initial value
	Dissipation factor(tanδ) ≅ 150% of the specified value
	Equivalent Series Resistance ≅ 150% of the specified value
Moisture Resistance	The following requirements shall be satisfied when the capacitor are restored to 20°C after exposing them for 1,000 hours at 60°C 90 to 95% RH.
	Capacitance change ≅ ±20% of the initial value
	Dissipation factor(tanδ) ≅ 150% of the specified value
	Leakage current ≅ specified value

◆ DIMENSIONS (mm)



Size	D	L	A	H(Max)	W	P	K
06A6	6.3	6	6.6	7.8	0.65±0.15	2.0±0.2	0.35+0.15/-0.2
06A7	6.3	7.7	6.6	7.8	0.65±0.15	2.0±0.2	0.35+0.15/-0.2
08B4	8	10.4	8.3	10	0.9±0.2	3.1±0.2	0.7±0.2
10C1	10	10.2	10.3	12	0.9±0.2	4.7±0.2	0.7±0.2
10C2	10	12.2	10.3	12	0.9±0.2	4.7±0.2	0.7±0.2

◆ Marking



◆ PART NUMBER SYSTEM(Example : 16V 100μF)

P	V	E	I	C	I	0	I	M	0	6	A	6	S	0	N
Print color(Red)															
Lead forming Type code															
Size code(06A6 : 6.3×6)															
Capacitance tolerance code(M: ±20%)															
Capacitance code (100μF)															
Voltage code(16V)															
Series code(VE)															
Category code(P)															

VE Series

◆ Case size & Permissible

WV (Vdc)	Cap (μF)	Case Size ΦD×L (mm)	Max.Rated ripple current mArms@105°C100KHz	ESR 100~300KHz (mΩmax)	
2.5	330	6.3×6	3100	20	
	470	6.3×6	3100	20	
	560	6.3×7.7	3600	15	
	820	8×10.4	4200	12	
6.3	100	6.3×6	2500	25	
	220	6.3×6	3100	22	
	330	6.3×6	3300	22	
		6.3×7.7	3500	18	
		8×10.4	4200	15	
	470	6.3×7.7	3500	18	
		8×10.4	4200	15	
	560	8×10.4	4200	15	
		10×10.2	5000	15	
		820	8×10.4	4500	15
			10×10.2	5000	15
	1200	10×10.2	5300	15	
10		120	6.3×6	2600	22
		150	6.3×7.7	2880	21
		330	8×10.4	4000	17
	470	10×10.2	5025	12	
16	68	6.3×6	2400	25	
	820	8×10.4	4500	15	
		10×10.2	5000	15	

WV (Vdc)	Cap (μF)	Case Size ΦD×L (mm)	Max.Rated ripple current mArms@105°C100KHz	ESR 100~300KHz (mΩmax)	
25	47	6.3×6	1800	40	
		6.3×7.7	2500	35	
	100	6.3×7.7	2500	35	
		8×10.4	3200	25	
	220	8×10.4	3200	25	
		330	10×10.2	3800	25
	10×12.2		4500	20	
35	470	10×12.2	4500	20	
		22	6.3×6	1500	50
	47	6.3×6	1500	50	
		6.3×7.7	2300	40	
	68	6.3×7.7	2300	40	
		100	6.3×7.7	2500	35
			8×10.4	3200	25
	220	8×10.4	2800	25	
		330	10×10.2	3800	25
			10×12.2	4500	20
50		22	6.3×7.7	1200	60
	47		8×10.4	2500	40
	68	10×10.2	3000	40	
		100	10×12.2	3500	30

◆ RIRIPPLE CURRENT MULTIPLIERS Frequency Multipliers

Vdc	Frequency (Hz)			
	120	1K	10K	100K
2.5~50	0.05	0.3	0.7	1.0