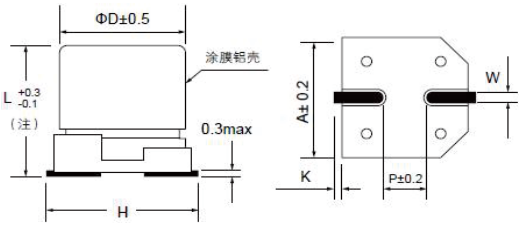
VH Series

- **Recommended Applications: Long life and Ultra low ESR Series**
- **Load life 5,000 hours at 105℃**
- **RoHS Compliant**

◆ SPECIFICATIONS

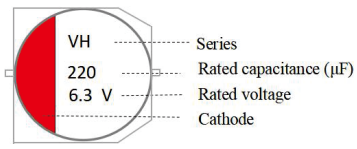
Item	Performance Characteristics
Category Temperature Range	-55 ~ +105℃
Working Voltage Range	2.5 ~ 50Vdc
Capacitance Range	10 ~1,500 μF
Capacitance Tolerance	±20% (at 20℃ and 120Hz)
Dissipation Factor (tanδ) (at 20℃, 120Hz)	Rated Voltage (V): 2.5~50; Tanδ(Max): 0.12
Leakage Current	I=0.2CV or 300 μA, 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℃) / Z(+25℃) ≤1.15 at 100KHz Z(-55℃) / Z(+25℃) ≤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 5,000 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 Leakage current: ≦ specified value
Moisture Resistance	The following requirements shall be satisfied when the capacitor are restored to 20℃ after exposing them for 1,000 hours at 60℃ 90 to 95% RH. Capacitance change: ≦ ±20% of the initial value Dissipation factor(tanδ): ≦ 150% of the specified value Equivalent Series Resistance: ≦ 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 : 6.3V 220μF)

P	V	H	0	J	2	2	1	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 (220μF)
- Voltage code(6.3V)
- Series code(VH)
- Category code(P)

VH Series

◆ **Case size & Permissible**

WV (Vdc)	Cap (μF)	Case Size ΦD×L (mm)	Max.Rated ripple current mArms@105℃100KHz	ESR 100～300KHz（mΩmax）
2.5	330	6.3×6	3200	20
	470	6.3×7.7	4000	18
	560	6.3×7.7	4000	18
	820	8×10.4	4500	12
6.3	100	6.3×6	2800	22
	220	6.3×6	2800	22
	330	6.3×6	2800	22
		6.3×7.7	3400	20
	470	6.3×7.7	3400	20
	560	8×10.4	4000	15
	680	8×10.4	4000	15
	1000	10×10.2	4500	15
	1500	10×12.2	5000	12
16	47	6.3×6	2300	27
	100	6.3×6	2300	27
	270	6.3×7.7	2800	24
	330	6.3×7.7	2800	24
	470	8×10.4	3500	22
	100	6.3×6	2200	30
	180	6.3×7.7	2500	25
	270	6.3×7.7	2500	25
	330	8×10.4	3200	20
	470	8×10.4	3200	20
	560	10×10.2	3800	20
	820	10×12.2	4200	15
	1000	10×12.2	4200	15

WV (Vdc)	Cap (μF)	Case Size ΦD×L (mm)	Max.Rated ripple current mArms@105℃100KHz	ESR 100～300KHz（mΩmax）
25	47	6.3×6	1500	40
	56	6.3×6	1500	40
	100	6.3×7.7	2200	35
	100	8×10.4	3000	30
	220	8×10.4	3000	30
	220	10×10.2	3500	30
	330	10×12.2	3800	25
35	22	6.3×6	1300	50
	47	6.3×7.7	1500	45
	100	8×10.4	2500	25
		10×10.2	3000	25
	150	10×10.2	3000	25
	220	10×12.2	3500	20
50	10	6.3×6	1000	60
	22	6.3×7.7	1200	50
	47	8×10.4	2000	40
	68	10×10.2	2500	40
	100	10×12.2	3000	30

◆ **RIRIPPLE CURRENT MULTIPLIERS**
Frequency Multipliers

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