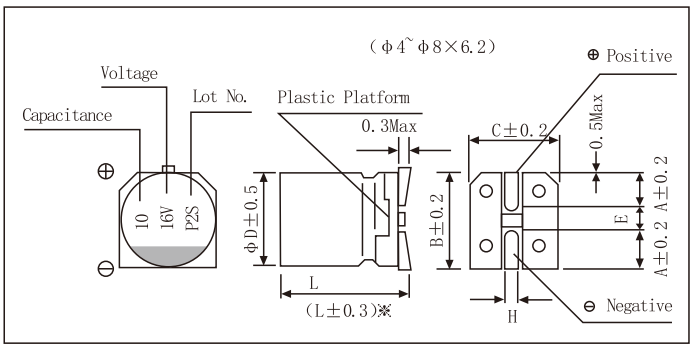
VH 系 列 SERIES

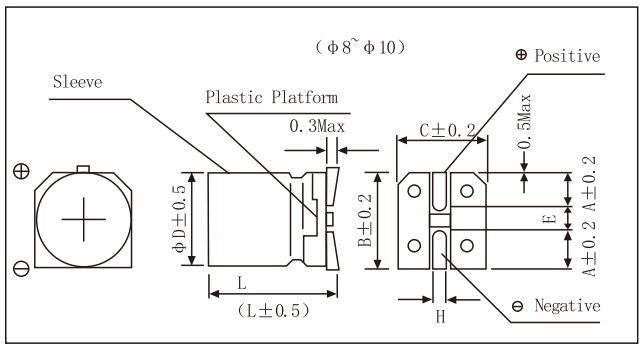
- V-CHIP Type
- Load life : 105℃ 2000 hours
- Complied to the RoHS directive

◆SPECIFICATION

Items	Characteristics
Operating Temperature Range(℃)	-40~+105℃
Voltage range (V)	4~50V
Capacitance Range (μF)	0.1~1500μF
Capacitance Tolerance	±20% (at 20℃, 120Hz)
Dissipation Factor(Tan δ)	U_R(V): 4 / 6.3 / 10 / 16 / 25 / 35 / 50 tg δ: 0.40 / 0.30 / 0.24 / 0.20 / 0.16 / 0.14 / 0.14 (at 20℃,120Hz)
Low Temperature Characteristics	U_R(V): 4 / 6.3 / 10 / 16 / 25 / 35 / 50 Z-25℃/Z+20℃: 7 / 4 / 3 / 2 / 2 / 2 / 2 Z-40℃/Z+20℃: 15 / 8 / 8 / 4 / 4 / 3 / 3 (at 120Hz)
leakage current (μA)	I=0.01$C_R U_R$ or 3μA whichever is greater.(at20℃,After 2 minutes application of rated voltage) I=Leakage Current U_R=Rated Voltage C_R=Rated Capacitance
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated rippled current is applied for 2000 hours at 85℃ Capacitance change: Within ±20%initial value; 16V: Within ±25%initial value D.F. (Tan δ): Not more than200% of specified value leakage current: Not more than specified value
Shelf Life	After storage for 1000 hours at +85℃,the capacitors shall meet the requirement of load life above.
Resistance to Soldering Heat	The capacitors shall be kept on the hot plate maintained at 25℃ for 30 seconds.After removing from the hot plate and restored at room temperature,they meet the following reqiurement. Capacitance change: Within ±10%initial value D.F. (Tan δ): Not more than initial specified value leakage current: Not more than initial specified value
Frequency coefficient	Frequency(Hz) / Rated voltage(v): 50 / 120 / 300 / 1k / ≥10k 4~50WV: 0.70 / 1.00 / 1.17 / 1.36 / 1.50

◆Dimensions





VH 系 列 SERIES

Apply to Φ6.3×7.7 Φ8×6.2 (mm)

	4×5.4	5×5.4	6.3×5.4	6.3×7.7	8×6.2	8×10	10×10
A	1.8	2.1	2.4	2.4	3.3	2.9	3.2
B	4.3	4.3	6.6	6.6	8.3	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3
E	1.0	1.3	2.2	2.2	2.3	3.1	4.5
L	5.4	5.4	5.4	7.7	6.2	10.0	10.0
H	0.5~0.8					0.8~1.1	

◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capaci-tance	Rated Ripple Current 85℃ 120Hz	Size ΦD×L
(V)	(μF)	(mA rms)	(mm)
4 (0G)	22	22	4×5.4
	33	30	5×5.4
	47	36	5×5.4
	100	60	6.3×5.4
	150	86	6.3×7.7
	220	102	6.3×7.7
	330	105	6.3×7.7
	470	210	8×10
	680	210	8×10
	1000	230	8×10
	1500	310	10×10
6.3 (8) 0J	22	22	4×5.4
	33	30	5×5.4
	47	36	5×5.4
	100	60	6.3×5.4
	150	86	6.3×7.7
	220	102	6.3×7.7
	330	105	6.3×7.7
	470	210	8×10
	680	210	8×10
	1000	230	8×10
	1500	310	10×10
10 (13) 1A	22	27	5×5.4
	33	35	5×5.4
	47	46	6.3×5.4
	100	60	6.3×5.4
	150	86	6.3×7.7
	220	105	6.3×7.7
	330	195	8×10
	470	210	8×10
	680	310	10×10
	1000	310	10×10
16 (20) 1C	10	18	4×5.4
	22	30	5×5.4
	33	40	6.3×5.4
	47	50	6.3×5.4
	100	60	6.3×5.4
	150	95	6.3×7.7
	220	105	6.3×7.7
	330	195	8×10
	470	230	8×10
	680	310	10×10

VH 系 列 SERIES

◆ STANDARD RATINGS

UR (Surge Voltage) Code	Rated Capaci-tance	Rated Ripple Current 85℃120Hz	Size φD×L
(V)	(μF)	(mA rms)	(mm)
25 (32) 1E	4.7	13	4×5.4
	10	23	5×5.4
	22	38	6.3×5.4
	33	48	6.3×5.4
	47	66	6.3×7.7
	100	91	6.3×7.7
	150	140	8×10
	220	155	8×10
	330	190	8×10
	470	300	10×10
35 (44) 1V	2.2	7.5	4×5.4
	3.3	9	4×5.4
	4.7	15	4×5.4
	10	25	5×5.4
	22	42	6.3×5.4
	33	59	6.3×7.7
	47	63	6.3×7.7
	100	84	6.3×7.7
	150	155	8×10
	220	190	8×10
	330	300	10×10
50 (63) 1H	0.1	1.0	4×5.4
	0.22	2.6	4×5.4
	0.33	3.2	4×5.4
	0.47	3.8	4×5.4
	1.0	6.3	4×5.4
	2.2	11	4×5.4
	3.3	14	4×5.4
	4.7	19	5×5.4
	10	30	6.3×5.4
	22	51	6.3×7.7
	33	60	6.3×7.7
	47	63	6.3×7.7
	100	140	8×10
	150	180	10×10
	220	220	10×10

Customer products are available on request