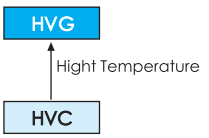
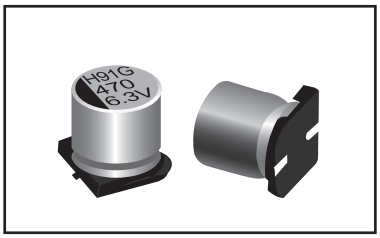
- Chip Type, Higher Temperature 125℃, 1000 hours
- Low ESR, high ripple current capability
- Applications: DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- RoHS Compliant

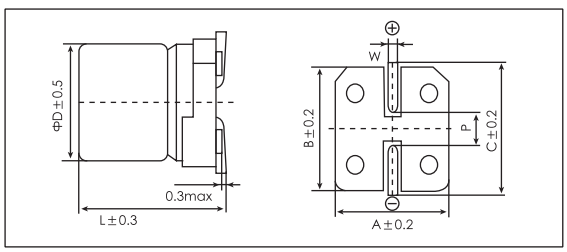




Items	Characteristics
Operating Temperature Range (℃)	-55 ~ +125
Voltage Range (V)	2.5 ~ 20
Capacitance Range (μF) (20℃, 120Hz)	22 ~ 560
Capacitance Tolerance (20℃, 120Hz)	± 20%
Surge Voltage	U_R x 1.15
Leakage Current (μA) ※1	Please see the attached ratings list (20℃, 2min)
Dissipation Factor (20℃, 120Hz)	Please see the attached ratings list
Equivalent Series Resistance (20℃, 100kHz)	Please see the attached ratings list
Temperature Characteristics (Max Impedance Ratio at 100kHz)	$Z_{+125℃} / Z_{+20℃} \leqslant 1.25$ $Z_{-55℃} / Z_{+20℃} \leqslant 1.25$
Endurance	**1000h, Rated voltage applied at 125℃** Capacitance change: within ± 20% of the initial measured value Dissipation Factor (Tan δ): ⩽200% of initial specified value ESR: ⩽200% of initial specified value DC Leakage Current: ⩽ the initial specified value
Damp heat(Steady state)	**1000h, No-applied voltage 60℃, 90~95% RH** Capacitance change: within ± 20% of the initial measured value Dissipation Factor (Tan δ): ⩽150% of initial specified value ESR: ⩽150% of initial specified value DC Leakage Current: ⩽ the initial specified value (after voltage processing)
Resistance to soldering heat	**Reflow method (260℃×5s)** Capacitance change: within ± 10% of the initial measured value Dissipation Factor (Tan δ): ⩽130% of initial specified value ESR: ⩽130% of initial specified value DC Leakage Current: ⩽ the initial specified value (after voltage processing)

※1 In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 125℃.

Dimensions mm



(unit:mm)

Size Code	ΦD±0.5	L	A±0.2	B±0.2	C±0.2	W	P±0.2
F60	6.3	5.7	6.6	6.6	7.3	0.5~0.8	2.0
B70	8	6.7	8.3	8.3	9.0	0.5~0.8	3.1

Size list

Cap.(μF) \ U_R[S.V] (V)	2.5 [2.9]	4 [4.6]	6.3 [7.2]	10 [12]	16 [18]	20 [23]
22						F60
39					F60	
47						B70
56				F60		
82			F60		B70	
100			F60			
120				B70		
150		F60	B70	B70		
180						
220	F60	B70	B70			
330				B70		
470						
560	B70					

Ratings for **HVG** Series

U_R Code	Rated Capacitance 20℃,120Hz	Max ESR 20℃,100kHz	Allowable Ripple Current 100kHz, T≤105℃	Rated Ripple Current 100kHz, 105℃<T≤125℃	Dissipation Factor 20℃,120Hz	Leakage Current 20℃,2min	Size ΦD x L	P/N
(V)	(μF)	(mΩ)	(mArms)	(mArms)	(%)	(μA)	(mm)	-
2.5 0E	220	35	2500	770	12	110	6.3×5.7	PCV0EVG221MF60□□
	560	30	3100	960	12	280	8×6.7	PCV0EVG561MB70□□
4 0G	150	35	2450	770	12	120	6.3×5.7	PCV0GVG151MF60□□
	220	30	3020	960	12	176	8×6.7	PCV0GVG221MB70□□
6.3 0J	82	40	2400	720	12	103	6.3×5.7	PCV0JVG820MF60□□
	100	40	2400	720	12	126	6.3×5.7	PCV0JVG101MF60□□
	150	30	3020	960	12	189	8×6.7	PCV0JVG151MB70□□
	220	30	3020	960	12	277	8×6.7	PCV0JVG221MB70□□
10 1A	56	45	2250	680	12	112	6.3×5.7	PCV1AVG560MF60□□
	120	35	2800	880	12	240	8×6.7	PCV1AVG121MB70□□
	150	35	2800	880	12	300	8×6.7	PCV1AVG151MB70□□
	330	35	2800	880	12	660	8×6.7	PCV1AVG331MB70□□
16 1C	39	50	2050	650	12	125	6.3×5.7	PCV1CVG390MF60□□
	82	40	2700	830	12	262	8×6.7	PCV1CVG820MB70□□
20 1D	22	60	1650	590	12	88	6.3×5.7	PCV1DVG220MF60□□
	47	45	2000	780	12	188	8×6.7	PCV1DVG470MB70□□

Customer products are available on request.

Frequency coefficient for ripple current

Frequency	120Hz ≤ f < 1kHz	1kHz ≤ f < 10kHz	10kHz ≤ f < 100kHz	100kHz ≤ f < 500kHz
Coefficient	0.05	0.3	0.7	1