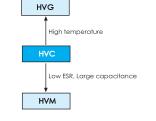


- Chip Type, Standard 105°C, 2000 hours
- Low ESR, high ripple current capability
  Applications: DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- RoHS Compliant

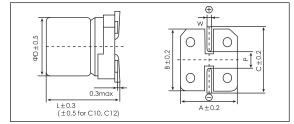




Items	Characteristics					
Operating Temperature Range (°C)	-55 ~ +105					
Voltage Range (V)	2.5 ~ 25					
Capacitance Range (µF) (20°C, 120Hz)	10 ~ 1500					
Capacitance Tolerance (20°C, 120Hz)	± 20%					
Surge Voltage	U <sub>p</sub> x 1.15					
Leakage Current (µA) %1	Please see the attached ratings list (20℃, 2min)					
Dissipation Factor (20°C, 120Hz)	Please see the attached ratings list					
Equivalent Series Resistance (20°C, 100kHz)	Please see the attached ratings list					
Temperature Characteristics (Max Impedance Ratio at 100kHz)	Z <sub>+105℃</sub> / Z <sub>+20℃</sub> ≤1.25 Z <sub>-55℃</sub> / Z <sub>+20℃</sub> ≤1.25					
Endurance	2000h, Rated voltage applied at 105°C         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					
Damp heat(Steady state)	1000h, No-applied voltage 60°C, 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°C × 5s)Capacitance change: within ± 10% of the initial measured valueDissipation Factor (Tan δ): < 130% of initial specified valueESR: < 130% of initial specified valueDC 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 105℃.

### **Dimensions**



						(ur	nit:mm)
Size Code	ФD±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
B12	8	12.2	8.3	8.3	9.0	0.7~1.1	3.1
C12	10	12.2	10.3	10.3	11.0	0.7~1.1	4.6

#### Size list mm

U <sub>R</sub> [S.V] Cap.(uF) (V)	2.5	4	6.3	10	16	20	25
Cap.(µF) (V)	[2.9]	[4.6]	[7.2]	[12]	[18]	[23]	[29]
10							F60.B70
22						F60	B70
27						F60	
33					F60	B70	B12
39					F60	B70	
47				F60	F60	B70	B12
56				F60	B70		C12
68			F60	F60			
82			F60		B70		
100		F60	F60		B12	B12	
120			F60	B70			
150		F60	B70	B70	C12	C12	
180			B70		B12		
220	F60	B70	B70		B12.C12		
270		B70		B12			
330		B70		B12	C12		
390			B12				
470	B70		B12	C12			
560	B70	B12	B12	C12			
680	B12		C12				
820		C12	C12				
1000			C12				
1200		C12					
1500	C12						

POLYMER



# **HVC SERIES**

## Ratings for HVC Series

U <sub>r</sub> Code	Rated Capacitance 20°C,120Hz	Max ESR 20°C,100kHz	Rated Ripple Current 105°C,100kHz	Dissipation Factor 20℃,120Hz	Leakage Current 20°C,2min	Size ФD x L	P/N
(V)	(µF)	(mΩ)	(mArms)	(%)	(μA)	(mm)	-
2.5 0E	220	20	2800	12	110.0	6.3×5.7	PCV0EVC221MF60
	470	20	3300	12	235.0	8×6.7	PCV0EVC471MB70
	560	20	3300	12	280.0	8×6.7	PCV0EVC561MB70
	680	12	4770	12	340.0	8×12.2	PCV0EVC681MB12
	1500	10	5500	12	750.0	10×12.2	PCV0EVC152MC12
	100	22	2600	12	80.0	6.3×5.7	PCV0GVC101MF60
	150	22	2800	12	120.0	6.3×5.7	PCV0GVC151MF60
	220	21	3220	12	176.0	8×6.7	PCV0GVC221MB70
4 0G	270	21	3220	12	216.0	8×6.7	PCV0GVC271MB70
UG	330	21	3400	12	264.0	8×6.7	PCV0GVC331MB70
	560	12	4770	12	448.0	8×12.2	PCV0GVC561MB12
	820	10	5500	12	656.0	10×12.2	PCV0GVC821MC12
	1200	10	5500	12	960.0	10×12.2	PCV0GVC122MC12
	68	27	2400	12	85.7	6.3×5.7	PCV0JVC680MF60
	82	23	2600	12	103.3	6.3×5.7	PCV0JVC820MF60
	100	23	2800	12	126.0	6.3×5.7	PCV0JVC101MF60
	120	17	3000	12	151.2	6.3×5.7	PCV0JVC121MF60
	150	22	3200	12	189.0	8×6.7	PCV0JVC151MB70
	180	22	3200	12	226.8	8×6.7	PCV0JVC181MB70
6.3	220	22	3400	12	277.2	8×6.7	PCV0JVC221MB70
OJ	390	12	4770	12	491.4	8×12.2	PCV0JVC391MB12
	470	12	4770	12	592.2	8×12.2	PCV0JVC471MB12
	560	12	4770	12	705.6	8×12.2	PCV0JVC561MB12
	680	10	5500	12	642.6	10×12.2	PCV0JVC681MC12
	820	10	5500	12	774.9	10×12.2	PCV0JVC821MC12
	1000	10	5500	12	945.0	10×12.2	PCV0JVC102MC12
	47	26	2600	12	94.0	6.3×5.7	PCV1AVC470MF60
	56	25	2500	12	112.0	6.3×5.7	PCV1AVC560MF60
	68	30	2200	12	136.0	6.3×5.7	PCV1AVC680MF60
10	120	23	3000	12	240.0	8×6.7	PCV1AVC121MB70
1Ă	150	23	3200	12	300.0	8×6.7	PCV1AVC151MB70
	270	13	4500	12	540.0	8×12.2	PCV1AVC271MB12
	330	14	4420	12	660.0	8×12.2	PCV1AVC331MB12
	470	12	5300	12	705.0	10×12.2	PCV1AVC471MC12
	560	12	5300	12	840.0	10×12.2	PCV1AVC561MC12
	33	31	2400	12	105.6	6.3×5.7	PCV1CVC330MF60
	39	24	2500	12	124.8	6.3×5.7	PCV1CVC390MF60
	47	24	2500	12	150.4	6.3×5.7	PCV1CVC470MF60
	56	30	2900	12	179.2	8×6.7	PCV1CVC560MB70
17	82	28	3200	12	262.4	8×6.7	PCV1CVC820MB70
16 1C	100	25	3000	12	320.0	8×12.2	PCV1CVC101MB12
	180	16	4400	12	576.0	8×12.2	PCV1CVC181MB12
	220	16	4400	12	704.0	8×12.2	PCV1CVC221MB12
	150	20	4320	12	480.0	10×12.2	PCV1CVC151MC12
	220	14	5050	12	528.0	10×12.2	PCV1CVC221MC12
	330	14	5050	12	792.0	10×12.2	PCV1CVC331MC12
20	22	35	2040	12	88.0	6.3×5.7	PCV1DVC220MF60
	27	35	2040	12	108.0	6.3×5.7	PCV1DVC270MF60
	33	45	2000	12	132.0	8×6.7	PCV1DVC330MB70
1D	39	45	2000	12	156.0	8×6.7	PCV1DVC390MB70
	47	33	2630	12	188.0	8×6.7	PCV1DVC470MB70
	100	22	3320	12	400.0	8×12.2	PCV1DVC101MB12
	150	20	4320	12	600.0	10×12.2	PCV1DVC151MC12
	10	65	1500	12	50.0	6.3×5.7	PCV1EVC100MF60
25	10	60	1600	12	50.0	8×6.7	PCV1EVC100MB70
ÎE	22	50	1800	12	110.0	8×6.7	PCV1EVC220MB70□□
	33	30	3000	12	412.5	8×12.2	PCV1EVC330MB12
	47	30	3000	12	587.5	8×12.2	PCV1EVC470MB12
	56	28	3800	12	700.0	10×12.2	PCV1EVC560MC12

## Frequency coefficient for ripple current

Customer products are available on request.

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