HVF SERIES

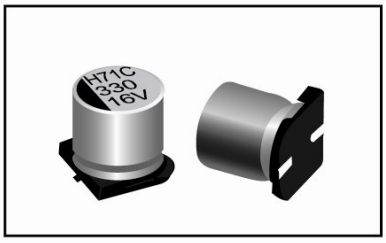
- High Voltage ,Long Life, Low ESR, Large Capacitance 105℃,3000 hours
- Ultra Low ESR ,high ripple current capability
- Applications: DC/DC Converter, Switching Power Supply, LED power etc.
- RoHS Compliant

HVF

HVC

High voltage，

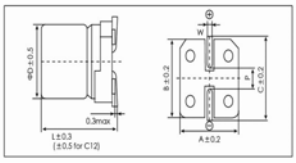
Long life



Items	Characteristics
Operating Temperature Range(°C)	-55~+105
Voltage Range (V)	16~200
Capacitance Range(μF)(20°C,120Hz)	4.7~1200
Capacitance Tolerance (20°C,120Hz)	±20%
Surge Voltage	U_R×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)	$Z_{+105℃}$ / $Z_{+20℃}$ ≤1.25 $Z_{-55℃}$ /$Z_{+20℃}$ ≤1.25
Endurance	**3000h,Rated voltage applied at 105℃** Capacitance change:within±20% of the initialMeasured value Dissipation Factor (Tan δ): ≤150% of initial specified value ESR：≤150% of initial specified value DC Leakage Currrent: ≤the initial specified value
Damp heat(Steady state)	**1000h,No-applied voltage 60℃,90~95% RH** Capacitance change:within±20% of the initialMeasured value Dissipation Factor (Tan δ): ≤150% of initial specified value ESR：≤150% of initial specified value DC Leakage Currrent: ≤the initial specified value(after voltage processing)
Resistance to soldering heat	**FlowMethod (260±5℃×10s)** Capacitance change:within±5% of the initialMeasured value Dissipation Factor (Tan δ): ≤the initial specified value ESR：≤the initial specified value DC Leakage Currrent: ≤the initial specified value(after voltage processing)

※ 1 In case of some problems for measured values, measure after applying rated voltage for120Minutes at 105℃.

Dimensions mm



(unit :mm)

Size Code	ϕ D±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

UR[S.V](V) / Cap.(μF)	16 [18]	20 [23]	2.5 [2.9]	28 [32]	32 [37]	35 [40]	40 [46]	50 [58]	63 [72]	80[92]	100 [115]	125 [144]	160 [184]	200 [230]
4.7														B12
8.2													B12	C12
10									F60			B12	C12	C12
12									F60		B12	B12	C12	
15											B12			
18												C12		
22								F60	B70		C12	C12		
27									B70		C12			
33								B70		B12				
39								B70		B12				
47							F60		B12	C12				
56						F60	F60		B12,C12	C12				
68					F60	F60			C12					
82				F60				B12	C12					
100			F60					B12,C12	C12					
120		F60	F60		B70	B70	B70	C12						
150	F60	B70		B70				C12						
180	F60		B70											
220		B70	B70		B12	B12	B12							
270	B70	B70		B12	B12	B12								
330	B70		B12	B12			C12							
390		B12	B12		C12	C12	C12							
470	B12	B12	B12,C12	C12	C12	C12	C12							
560	B12	B12,C12	C12	C12										
680	B12	C12	C12											
820		C12												
1,000	C12													
1,200	C12													

HVF SERIES

Ratings for HVF Series

U_R Code	Rated Capacitance 20℃, 120Hz	Max ESR 20℃, 100kHz	Rated Ripple Current 125℃, 100kHz	Dissipation Factor 20℃, 120Hz	Leakage Current 20℃,2min	Size ΦD×L	P/N
(v)	(μF)	(mΩ)	(mArms)	(%)	(μA)	(mm)	-
16 1C	150	25	2, 800	12	480	6. 3X5. 7	PCV1CVF151MF60□□
	180	25	2. 800	12	576	6. 3X5. 7	PCV1CVF181MF60□□
	270	22	3, 300	12	864	8x6. 7	PCV1CVF271MB70□□
	330	22	3, 300	12	1, 056	8x6. 7	PCV1CVF331MB70□□
	470	14	4, 950	12	1, 504	8x12. 2	PCV1CVF471MB12□□
	560	14	4, 950	12	1, 792	8x12. 2	PCV1CVF561MB12□□
	680	14	4. 950	12	2. 176	8x12. 2	PCV1CVF681MB12□□
	1000	12	5, 400	12	3, 200	10x12. 2	PCV1CVF102MC12□□
	1200	12	5. 400	12	3. 840	10x12. 2	PCV1CVF122MC12□□
20 1D	120	28	2, 650	12	480	6. 3X5. 7	PCV1DVF121MF60□□
	150	28	2, 650	12	600	6. 3X5. 7	PCV1DVF151MF60□□
	220	24	3. 200	12	880	8x6. 7	PCV1DVF221MB70□□
	270	24	3, 200	12	1, 080	8x6. 7	PCV1DVF271MB70□□
	390	14	4, 950	12	1, 560	8X12. 2	PCV1DVF391MB12□□
	470	14	4, 950	12	1. 880	8x12. 2	PCV1DVF471MB12□□
	560	14	4, 950	12	2, 240	8x12. 2	PCV1DVF561MB12□□
	560	12	5, 400	12	2, 240	10x12. 2	PCV1DVF561MC12□□
	680	12	5, 400	12	2, 720	10x12. 2	PCV1DVF681MC12□□
	820	12	5, 400	12	3, 280	10x12. 2	PCV1DVF821MC12□□
25 1E	100	30	2, 550	12	500	6. 3X5. 7	PCV1EVF101MF60□□
	120	30	2. 550	12	600	6. 3X5. 7	PCV1EVF121MF60□□
	180	24	3, 200	12	900	8x6. 7	PCV1EVF181MB70□□
	220	24	3, 200	12	1, 100	8X6. 7	PCV1EVF221MB70□□
	330	16	4, 650	12	1, 650	8x12. 2	PCV1EVF331MB12□□
	390	16	4, 650	12	1, 950	8x12. 2	PCV1EVF391MB12□□
	470	16	4, 650	12	2, 350	8X12. 2	PCV1EVF471MB12□□
	470	14	5, 000	12	2, 350	10x12. 2	PCV1EVF471MC12□□
	560	14	5, 000	12	2, 800	10x12. 2	PCV1EVF561MC12□□
	680	14	5, 000	12	3, 400	10x12. 2	PCV1EVF681MC12□□
28 1L	82	33	2, 450	12	459	6. 3X5. 7	PCV1LVF820MF60□□
	150	28	2, 950	12	840	8x6. 7	PCV1LVF151MB70□□
	270	18	4, 350	12	1, 512	8X12. 2	PCV1LVF271MB12□□
	330	18	4, 350	12	1, 848	8X12. 2	PCV1LVF331MB12□□
	470	16	4, 650	12	2, 632	10x12. 2	PCV1LVF471MC12□□
	560	16	4, 650	12	3, 136	10x12. 2	PCV1LVF561MC12□□
32 1F	68	35	2, 350	12	435	6. 3X5. 7	PCV1FVF680MF60□□
	120	30	2, 800	12	768	8x6. 7	PCV1FVF121MB70□□
	220	20	4, 000	12	1, 408	8x12. 2	PCV1FVF221MB12□□
	270	20	4, 000	12	1, 728	8X12. 2	PCV1FVF271MB12□□
	390	18	4, 400	12	2, 496	10x12. 2	PCV1FVF391MC12□□
	470	18	4, 400	12	3, 008	10x12. 2	PCV1FVF471MC12□□
35 1V	47	35	2, 350	12	392	6. 3X5. 7	PCV1VVF560MF60□□
	56	35	2, 350	12	476	6. 3X5. 7	PCV1VVF680MF60□□
	100	30	2, 800	12	700	8x6. 7	PCV1VVF101MB70□□
	180	30	2, 800	12	849	8x6. 7	PCV1VVF121MB70□□
	220	20	4, 000	12	1, 540	8x12. 2	PCV1VVF221MB12□□
	330	18	4, 400	12	2, 310	10x12. 2	PCV1VVF331MC12□□
	390	18	4, 400	12	2, 730	10x12. 2	PCV1VVF391MC12□□
40 1G	33	37	2, 300	12	376	6. 3X5. 7	PCV1GVF470MF60□□
	39	32	2, 700	12	656	8x6. 7	PCV1GVF820MB70□□
	82	32	2, 700	12	800	8x6. 7	PCV1GVF101MB70□□
	150	21	3, 900	12	1, 400	8x12. 2	PCV1GVF181MB12□□
	220	18	4, 400	12	1, 760	10x12. 2	PCV1GVF221MC12□□
	270	18	4, 400	12	2, 160	10x12. 2	PCV1GVF271MC12□□
	330	18	4, 400	12	2, 640	10x12. 2	PCV1GVF331MC12□□
50 1H	22	40	2, 200	12	220	6. 3X5. 7	PCV1HVF220MF60□□
	33	35	2, 600	12	330	8x6. 7	PCV1HVF330MB70□□
	39	35	2. 600	12	390	8x6. 7	PCV1HVF390MB70□□
	82	25	3, 800	12	820	8x12. 2	PCV1HVF820MB12□□
	100	25	3, 800	12	1, 000	8x12. 2	PCV1HVF101MB12□□
	100	20	4. 300	12	1. 000	10x12. 2	PCV1HVF101MC12□□
	120	20	4, 300	12	1, 200	10x12. 2	PCV1HVF121MC12□□
	150	20	4, 300	12	1, 500	10x12. 2	PCV1HVF151MC12□□
63 1J	10	50	1, 950	12	126	6. 3X5. 7	PCV1JVF100MF60□□
	12	50	1, 950	12	151	6. 3X5. 7	PCV1JVF120MF60□□
	22	45	2, 350	12	277	8x6. 7	PCV1JVF220MB70□□
	27	45	2, 350	12	340	8x6. 7	PCV1JVF270MB70□□
	47	26	3, 600	12	592	8x12. 2	PCV1JVF470MB12□□
	56	26	3, 600	12	706	8X12. 2	PCV1JVF560MB12□□
	56	22	4, 100	12	706	10x12. 2	PCV1JVF560MC12□□
	68	22	4, 100	12	857	10x12. 2	PCV1JVF680MC12□□
	82	22	4, 100	12	1, 033	10x12. 2	PCV1JVF820MC12□□
	100	22	4, 100	12	1, 260	10x12. 2	PCV1JVF101MC12□□
80 1K	33	32	3, 200	12	528	8X12. 2	PCV1KVF330MB12□□
	39	32	3, 200	12	624	8X12. 2	PCV1KVF390MB12□□
	47	28	3, 600	12	752	10x12. 2	PCV1KVF470MC12□□
	56	28	3, 600	12	896	10x12. 2	PCV1KVF560MC12□□
2A 100	12	36	3, 000	12	240	8x12. 2	PCV2AVF120MB12□□
	15	36	3. 000	12	300	8x12. 2	PCV2AVF150MB12□□
	22	32	3. 300	12	440	10x12. 2	PCV2AVF220MC12□□
	27	32	3, 300	12	540	10x12. 2	PCV2AVF270MC12□□
2B 125	10	45	2, 700	12	250	8X12. 2	PCV2BVF100MB12□□
	12	45	2, 700	m	300	8x12. 2	PCV2BVF120MB12□□
	18	40	3, 000	12	450	10x12. 2	PCV2BVF180MC12□□
	22	40	3, 000	12	550	10x12. 2	PCV2BVF220MC12□□
2C 160	8. 2	70	2, 100	12	262	8X12. 2	PCV2CVF8R2MB12□□
	10	60	2, 400	12	320	10x12. 2	PCV2CVF100MC12□□
	12	60	2, 400	12	384	10x12. 2	PCV2CVF120MC12□□
2D 200	4. 7	120	1, 600	12	188	8x12. 2	PCV2DVF4R7MB12□□
	8. 2	100	1, 850	12	328	10x12. 2	PCV2DVF8R2MC12□□
	10	100	1850	12	400	10X12. 2	PCV2DVF100MC12□□

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

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