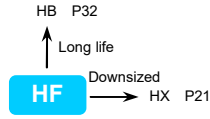


HF 系列 SERIES

Standard

RoHS

- 105 度标准品
105°C Standard
- 保证 105°C、2000 小时寿命。(叠加纹波电流)
Endurance with ripple current: 2000 hours at 105°C
- 额定工作电压范围: 16V~600V
Rated voltage range: 16V-600V



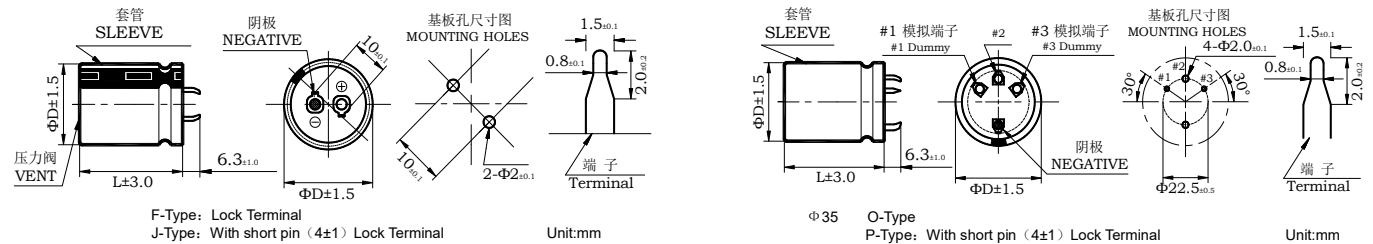
规格表 SPECIFICATIONS

项目 Items	特性 Characteristics																						
工作温度范围 Operating Temperature Range	-40~+105°C	-25~+105°C																					
额定工作电压范围 Rated Working Voltage Range	16~100V	160~600V																					
静电容量允许偏差 Capacitance Tolerance	±20% (20°C, 120Hz)																						
损耗角正切值 Dissipation Factor (MAX) 20°C, 120Hz	<table border="1"> <tr> <td>U_R(V)</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> <td>160~400</td> <td>450~600</td> </tr> <tr> <td>tanδ</td> <td>0.50</td> <td>0.45</td> <td>0.40</td> <td>0.35</td> <td>0.30</td> <td>0.25</td> <td>0.20</td> <td>0.15</td> <td>0.20</td> </tr> </table>		U _R (V)	16	25	35	50	63	80	100	160~400	450~600	tanδ	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.20	
U _R (V)	16	25	35	50	63	80	100	160~400	450~600														
tanδ	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.20														
阻抗比 Impedance Ratio (MAX) 120Hz	<table border="1"> <tr> <td>U_R(V)</td> <td>16~100</td> <td>160~200</td> <td>250</td> <td>315</td> <td>350~400</td> <td>450~600</td> </tr> <tr> <td>Z_{25°C}/Z_{+20°C}</td> <td>4</td> <td>3</td> <td>4</td> <td>7</td> <td>7</td> <td>8</td> </tr> <tr> <td>Z_{40°C}/Z_{+20°C}</td> <td>18</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		U _R (V)	16~100	160~200	250	315	350~400	450~600	Z _{25°C} /Z _{+20°C}	4	3	4	7	7	8	Z _{40°C} /Z _{+20°C}	18					
U _R (V)	16~100	160~200	250	315	350~400	450~600																	
Z _{25°C} /Z _{+20°C}	4	3	4	7	7	8																	
Z _{40°C} /Z _{+20°C}	18																						
漏电流 Leakage Current (MAX)	I=0.01C _R U _R 或 1.5mA 取小者 (20°C, 施加额定电压 5 分钟后) I=0.01C _R U _R or 1.5mA whichever is minimum. (at 20°C, After 5 minutes application of rated voltage) I=漏电流 (µA) U _R =额定电压 (V) C _R =静电容量 (µF) Leakage Current Rated Voltage Rated Capacitance																						

	使用寿命 Useful Life	负荷寿命 Load Life	耐久性特性 Endurance Test	高温无负荷特性 Shelf Life
产品寿命 Life Time	4000h	>180000h	2000h	1000h
漏电流 Leakage Current	≤规定值 ≤Specified value	≤规定值 ≤Specified value	≤规定值 ≤Specified value	≤规定值 ≤Specified value
损耗角正切值变化率 tanδ Change	≤规定值的 300% ≤300% of specified value	≤规定值的 200% ≤200% of specified value	≤规定值的 200% ≤200% of specified value	≤规定值的 200% ≤200% of specified value
静电容量变化率 Capacitance Change	初始值±30%以内 Within±30% of initial value	初始值±20%以内 Within±20% of initial value	初始值±20%以内 Within±20% of initial value	初始值±20%以内 Within±20% of initial value
施加条件 Condition 施加电压 Applied Voltage 施加纹波电流 Applied Ripple Current 环境温度 Applied Temperature 失效等级 Failure Rate Level	U _R I _R 105°C ≤1% Failure rate	U _R 1.4×I _R 40°C ≤1% Failure rate	U _R I _R 105°C 0%	U _R =0 I _R =0 105°C 0% Back up to 20 °C and placed more than 24 hours. U _R to be applied for 60 min before measurement.

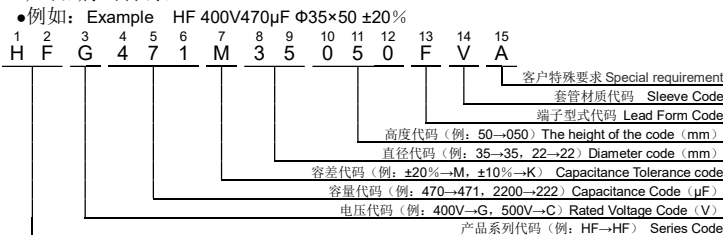
尺寸图 Dimensions

• 常用端子型式代码: Terminal Code



• 记载以外的端子形状, 请另行咨询。 Please consult to us for the terminal type not displayed in content.

产品编码体系 PART NUMBER SYSTEM



纹波电流修正系数 Rated Ripple Current Multiplies

电压范围 (v) Rated voltage	频率修正系数 Frequency Coefficient				
	50 (60)	100 (120)	300	1k	≥10k
16~50WV	0.90	1.00	1.10	1.15	1.15
63~100WV	0.85	1.00	1.17	1.32	1.45
160~600WV	0.80	1.00	1.16	1.30	1.41

电压范围 (v) Rated voltage	温度修正系数 Temperature coefficient				
	+40	+55	+70	+85	+105
16~600WV	2.7	2.5	2.1	1.7	1.0

◆ 产品一览表 Standard Ratings

WV _{DC} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20°C 120Hz	ESR _{typ} 20°C 120Hz (mΩ)	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
16 (20)	6800	22×25	0.50	68	1.61	HFV682M22025□VA
	8200	22×25	0.50	60	1.76	HFV822M22025□VA
	10000	22×30	0.50	46	2.00	HFV103M22030□VA
	10000	25×25	0.50	46	2.00	HFV103M25025□VA
	12000	22×35	0.50	39	2.28	HFV123M22035□VA
	12000	25×30	0.50	39	2.30	HFV123M25030□VA
	12000	30×25	0.50	39	2.38	HFV123M30025□VA
	15000	22×40	0.50	31	2.64	HFV153M22040□VA
	15000	25×30	0.50	31	2.51	HFV153M25030□VA
	15000	30×25	0.50	31	2.66	HFV153M30025□VA
	18000	22×45	0.50	26	2.98	HFV183M22045□VA
	18000	25×35	0.50	26	3.00	HFV183M25035□VA
	18000	30×30	0.50	26	3.00	HFV183M30030□VA
	18000	35×25	0.50	26	3.10	HFV183M35025□VA
	22000	25×40	0.50	21	3.23	HFV223M25040□VA
	22000	30×35	0.50	21	3.39	HFV223M30035□VA
	22000	35×25	0.50	21	3.43	HFV223M35025□VA
	27000	25×50	0.50	17	3.81	HFV273M25050□VA
	27000	30×35	0.50	17	3.63	HFV273M30035□VA
	27000	35×30	0.50	17	3.74	HFV273M35030□VA
	33000	30×45	0.50	14	4.30	HFV333M30045□VA
	33000	35×35	0.50	14	4.24	HFV333M35035□VA
	39000	30×50	0.50	12	4.74	HFV393M30050□VA
	39000	35×35	0.50	12	4.70	HFV393M35035□VA
	47000	30×55	0.50	10	5.30	HFV473M30055□VA
	47000	35×40	0.50	10	5.27	HFV473M35040□VA
	56000	30×60	0.50	8.8	5.80	HFV563M30060□VA
	56000	35×45	0.50	8.8	5.60	HFV563M35045□VA
68000	35×55	0.50	7.8	6.20	HFV683M35055□VA	
82000	35×60	0.50	6.8	6.50	HFV823M35060□VA	
25 (32)	4700	22×25	0.45	79	1.55	HFU472M22025□VA
	5600	22×30	0.45	66	1.75	HFU562M22030□VA
	6800	22×30	0.45	55	1.91	HFU682M22030□VA
	6800	25×25	0.45	55	1.90	HFU682M25025□VA
	8200	22×35	0.45	45	2.14	HFU822M22035□VA
	8200	25×30	0.45	45	2.16	HFU822M25030□VA
	8200	30×25	0.45	45	2.25	HFU822M30025□VA
	10000	22×40	0.45	37	2.40	HFU103M22040□VA
	10000	25×35	0.45	37	2.44	HFU103M25035□VA
	10000	30×25	0.45	37	2.41	HFU103M30025□VA
	12000	22×45	0.45	31	2.69	HFU123M22045□VA
	12000	25×40	0.45	31	2.74	HFU123M25040□VA
	12000	30×30	0.45	31	2.70	HFU123M30030□VA
	12000	35×25	0.45	31	2.80	HFU123M35025□VA
	15000	25×45	0.45	25	3.15	HFU153M25045□VA
	15000	30×35	0.45	25	3.13	HFU153M30035□VA
	15000	35×25	0.45	25	3.20	HFU153M35025□VA
	18000	25×50	0.45	21	3.54	HFU183M25050□VA
	18000	30×40	0.45	21	3.58	HFU183M30040□VA
	18000	35×30	0.45	21	3.55	HFU183M35030□VA
	22000	30×45	0.45	17	4.24	HFU223M30045□VA
	22000	35×35	0.45	17	4.00	HFU223M35035□VA
	27000	30×50	0.45	14	4.75	HFU273M30050□VA
	27000	35×40	0.45	14	4.70	HFU273M35040□VA
	33000	30×60	0.45	11	5.39	HFU333M30060□VA
	33000	35×45	0.45	11	5.35	HFU333M35045□VA
	39000	35×50	0.45	10	5.70	HFU393M35050□VA
	47000	35×60	0.45	9	6.20	HFU473M35060□VA

WV _{DC} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20°C 120Hz	ESR _{typ} 20°C 120Hz (mΩ)	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number	
35 (44)	2700	22×25	0.40	123	1.20	HFT272M22025□VA	
	3300	22×25	0.40	100	1.41	HFT332M22025□VA	
	3900	22×30	0.40	83	1.65	HFT392M22030□VA	
	3900	25×25	0.40	83	1.61	HFT392M25025□VA	
	4700	22×30	0.40	69	1.83	HFT472M22030□VA	
	4700	25×25	0.40	69	1.83	HFT472M25025□VA	
	5600	22×35	0.40	58	2.03	HFT562M22035□VA	
	5600	25×30	0.40	58	2.05	HFT562M25030□VA	
	5600	30×25	0.40	58	2.13	HFT562M30025□VA	
	6800	22×40	0.40	48	2.29	HFT682M22040□VA	
	6800	25×35	0.40	48	2.32	HFT682M25035□VA	
	6800	30×30	0.40	48	2.35	HFT682M30030□VA	
	6800	35×25	0.40	48	2.33	HFT682M35025□VA	
	8200	22×45	0.40	40	2.57	HFT822M22045□VA	
	8200	25×40	0.40	40	2.62	HFT822M25040□VA	
	8200	30×30	0.40	40	2.60	HFT822M30030□VA	
	8200	35×25	0.40	40	2.65	HFT822M35025□VA	
	10000	25×45	0.40	33	2.92	HFT103M25045□VA	
	10000	30×35	0.40	33	2.95	HFT103M30035□VA	
	10000	35×30	0.40	33	2.98	HFT103M35030□VA	
	12000	25×50	0.40	27	3.26	HFT123M25050□VA	
	12000	30×40	0.40	27	3.28	HFT123M30040□VA	
	12000	35×30	0.40	27	3.22	HFT123M35030□VA	
	15000	30×45	0.40	22	3.74	HFT153M30045□VA	
	15000	35×35	0.40	22	3.70	HFT153M35035□VA	
	18000	30×50	0.40	18	4.20	HFT183M30050□VA	
	18000	35×40	0.40	18	4.16	HFT183M35040□VA	
	22000	35×50	0.40	15	4.92	HFT223M35050□VA	
	27000	35×55	0.40	13	5.50	HFT273M35055□VA	
	50 (63)	1500	22×25	0.35	177	1.22	HFR152M22025□VA
		1800	22×25	0.35	155	1.32	HFR182M22025□VA
		2200	22×30	0.35	127	1.45	HFR222M22030□VA
2200		25×25	0.35	127	1.47	HFR222M25025□VA	
2700		22×30	0.35	103	1.70	HFR272M22030□VA	
2700		25×25	0.35	103	1.72	HFR272M25025□VA	
3300		22×35	0.35	84	1.99	HFR332M22035□VA	
3300		25×30	0.35	84	2.01	HFR332M25030□VA	
3300		30×25	0.35	84	2.03	HFR332M30025□VA	
3900		22×40	0.35	72	2.25	HFR392M22040□VA	
3900		25×35	0.35	72	2.28	HFR392M25035□VA	
3900		30×25	0.35	72	2.22	HFR392M30025□VA	
4700		22×45	0.35	59	2.56	HFR472M22045□VA	
4700		25×40	0.35	59	2.60	HFR472M25040□VA	
4700		30×30	0.35	59	2.58	HFR472M30030□VA	
4700		35×25	0.35	59	2.67	HFR472M35025□VA	
5600		22×50	0.35	50	2.90	HFR562M22050□VA	
5600		25×40	0.35	50	2.82	HFR562M25040□VA	
5600		30×35	0.35	50	2.95	HFR562M30035□VA	
5600		35×25	0.35	50	3.00	HFR562M35025□VA	
6800		25×50	0.35	41	3.38	HFR682M25050□VA	
6800		30×40	0.35	41	3.40	HFR682M30040□VA	
6800		35×30	0.35	41	3.32	HFR682M35030□VA	
8200		30×45	0.35	34	3.72	HFR822M30045□VA	
8200		35×35	0.35	34	3.67	HFR822M35035□VA	
10000		30×50	0.35	28	4.10	HFR103M30050□VA	
10000		35×40	0.35	28	4.08	HFR103M35040□VA	
12000		30×55	0.35	23	4.52	HFR123M30055□VA	
12000		35×45	0.35	23	4.50	HFR123M35045□VA	

*产品编码中口内为产品端子引出型式代码
*□Enter the appropriate terminal code

◆ 产品一览表 Standard Ratings

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C 120Hz	ESR _{typ} 20°C 120Hz (m Ω)	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number	
50 (63)	15000	35×50	0.35	19	4.80	HFR153M35050□VA	
	18000	35×60	0.35	16	5.10	HFR183M35060□VA	
63 (79)	1000	22×25	0.30	186	1.15	HFQ102M22025□VA	
	1200	22×25	0.30	155	1.26	HFQ122M22025□VA	
	1500	22×30	0.30	124	1.45	HFQ152M22030□VA	
	1500	25×25	0.30	124	1.47	HFQ152M25025□VA	
	1800	22×30	0.30	103	1.53	HFQ182M22030□VA	
	1800	25×25	0.30	103	1.53	HFQ182M25025□VA	
	2200	22×35	0.30	84	1.73	HFQ222M22035□VA	
	2200	25×30	0.30	84	1.75	HFQ222M25030□VA	
	2200	30×25	0.30	84	1.78	HFQ222M30025□VA	
	2700	22×40	0.30	69	1.98	HFQ272M22040□VA	
	2700	25×35	0.30	69	2.00	HFQ272M25035□VA	
	2700	30×25	0.30	69	1.95	HFQ272M30025□VA	
	3300	22×45	0.30	56	2.30	HFQ332M22045□VA	
	3300	25×40	0.30	56	2.28	HFQ332M25040□VA	
	3300	30×30	0.30	56	2.25	HFQ332M30030□VA	
	3300	35×25	0.30	56	2.42	HFQ332M35025□VA	
	3900	25×45	0.30	48	2.55	HFQ392M25045□VA	
	3900	30×35	0.30	48	2.56	HFQ392M30035□VA	
	3900	35×25	0.30	48	2.60	HFQ392M35025□VA	
	4700	25×50	0.30	40	2.89	HFQ472M25050□VA	
	4700	30×35	0.30	40	2.86	HFQ472M30035□VA	
	4700	35×30	0.30	40	2.84	HFQ472M35030□VA	
	5600	30×40	0.30	33	3.26	HFQ562M30040□VA	
	5600	35×35	0.30	33	3.24	HFQ562M35035□VA	
6800	30×50	0.30	27	3.74	HFQ682M30050□VA		
6800	35×35	0.30	27	3.70	HFQ682M35035□VA		
8200	30×55	0.30	23	4.10	HFQ822M30055□VA		
8200	35×40	0.30	23	4.00	HFQ822M35040□VA		
10000	35×50	0.30	19	4.60	HFQ103M35050□VA		
12000	35×55	0.30	16	4.90	HFQ123M35055□VA		
80 (100)	820	22×25	0.25	227	1.12	HFP821M22025□VA	
	1000	22×25	0.25	186	1.25	HFP102M22025□VA	
	1200	22×30	0.25	155	1.40	HFP122M22030□VA	
	1200	25×25	0.25	155	1.40	HFP122M25025□VA	
	1500	22×35	0.25	124	1.61	HFP152M22035□VA	
	1500	25×30	0.25	124	1.62	HFP152M25030□VA	
	1800	22×40	0.25	103	1.83	HFP182M22040□VA	
	1800	25×30	0.25	103	1.82	HFP182M25030□VA	
	1800	30×25	0.25	103	1.81	HFP182M30025□VA	
	2200	22×45	0.25	84	2.09	HFP222M22045□VA	
	2200	25×35	0.25	84	2.01	HFP222M25035□VA	
	2200	30×30	0.25	84	2.10	HFP222M30030□VA	
	2200	35×25	0.25	84	2.17	HFP222M35025□VA	
	2700	22×50	0.25	69	2.43	HFP272M22050□VA	
	2700	25×40	0.25	69	2.43	HFP272M25040□VA	
	2700	30×30	0.25	69	2.43	HFP272M30030□VA	
	2700	35×25	0.25	69	2.43	HFP272M35025□VA	
	3300	25×50	0.25	56	2.76	HFP332M25050□VA	
	3300	30×35	0.25	56	2.63	HFP332M30035□VA	
	3300	35×30	0.25	56	2.71	HFP332M35030□VA	
	3900	30×40	0.25	48	3.04	HFP392M30040□VA	
	3900	35×30	0.25	48	2.97	HFP392M35030□VA	
	4700	25×50	0.25	40	3.07	HFP472M25050□VA	
	4700	35×40	0.25	40	3.38	HFP472M35040□VA	
5600	30×55	0.25	33	3.80	HFP562M30055□VA		
5600	35×40	0.25	33	3.62	HFP562M35040□VA		
80 (100)	6800	30×60	0.25	27	4.00	HFP682M30060□VA	
	6800	35×45	0.25	27	3.86	HFP682M35045□VA	
	8200	35×55	0.25	23	4.20	HFP822M35055□VA	
	10000	35×60	0.25	19	4.48	HFP103M35060□VA	
	100 (125)	470	22×25	0.20	395	0.92	HFO471M22025□VA
		560	22×25	0.20	332	1.07	HFO561M22025□VA
		680	22×30	0.20	273	1.15	HFO681M22030□VA
		680	25×25	0.20	273	1.15	HFO681M25025□VA
		820	22×30	0.20	227	1.35	HFO821M22030□VA
		820	25×25	0.20	227	1.35	HFO821M25025□VA
		1000	22×35	0.20	186	1.54	HFO102M22035□VA
		1000	25×30	0.20	186	1.56	HFO102M25030□VA
		1000	30×25	0.20	186	1.52	HFO102M30025□VA
		1200	22×40	0.20	155	1.74	HFO122M22040□VA
		1200	25×35	0.20	155	1.76	HFO122M25035□VA
		1200	30×25	0.20	155	1.71	HFO122M30025□VA
		1500	22×45	0.20	124	1.99	HFO152M22045□VA
		1500	25×40	0.20	124	2.03	HFO152M25040□VA
		1500	30×30	0.20	124	2.00	HFO152M30030□VA
		1500	35×25	0.20	124	2.08	HFO152M35025□VA
		1800	25×45	0.20	103	2.28	HFO182M25045□VA
		1800	30×35	0.20	103	2.27	HFO182M30035□VA
		1800	35×25	0.20	103	2.20	HFO182M35025□VA
		2200	25×50	0.20	84	2.57	HFO222M25050□VA
2200		30×40	0.20	84	2.59	HFO222M30040□VA	
2200		35×30	0.20	84	2.52	HFO222M35030□VA	
2700		30×45	0.20	69	2.94	HFO272M30045□VA	
2700		35×35	0.20	69	2.90	HFO272M35035□VA	
3300	30×50	0.20	56	3.32	HFO332M30050□VA		
3300	35×40	0.20	56	3.31	HFO332M35040□VA		
3900	30×60	0.20	48	3.60	HFO392M30060□VA		
3900	35×45	0.20	48	3.69	HFO392M35045□VA		
4700	35×50	0.20	40	4.14	HFO472M35050□VA		
5600	35×60	0.20	33	4.70	HFO562M35060□VA		
6800	35×65	0.20	27	5.40	HFO682M35065□VA		
160 (200)	180	22×25	0.15	737	0.70	HFN181M22025□VA	
	220	22×25	0.15	603	0.78	HFN221M22025□VA	
	270	22×25	0.15	491	1.00	HFN271M22025□VA	
	330	22×25	0.15	402	1.16	HFN331M22025□VA	
	390	22×30	0.15	353	1.30	HFN391M22030□VA	
	390	25×25	0.15	353	1.32	HFN391M25025□VA	
	470	22×35	0.15	294	1.55	HFN471M22035□VA	
	470	25×30	0.15	294	1.58	HFN471M25030□VA	
	470	30×25	0.15	294	1.56	HFN471M30025□VA	
	560	22×40	0.15	245	1.63	HFN561M22040□VA	
	560	25×30	0.15	245	1.62	HFN561M25030□VA	
	560	30×25	0.15	245	1.68	HFN561M30025□VA	
	680	22×45	0.15	202	1.72	HFN681M22045□VA	
	680	25×35	0.15	202	1.80	HFN681M25035□VA	
	680	30×30	0.15	202	1.84	HFN681M30030□VA	
	680	35×25	0.15	202	1.83	HFN681M35025□VA	
	820	25×40	0.15	168	1.97	HFN821M25040□VA	
	820	30×30	0.15	168	2.02	HFN821M30030□VA	
	820	35×25	0.15	168	2.05	HFN821M35025□VA	
	1000	25×45	0.15	136	2.20	HFN102M25045□VA	
	1000	30×35	0.15	136	2.25	HFN102M30035□VA	
	1000	35×30	0.15	136	2.28	HFN102M35030□VA	
	1200	30×40	0.15	112	2.42	HFN122M30040□VA	

*产品编码中口内为产品端子引出型式代码
*□Enter the appropriate terminal code

◆ 产品一览表 Standard Ratings

WV _{DC} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20°C 120Hz	ESR _{typ} 20°C 120Hz (mΩ)	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
160 (200)	1200	35×30	0.15	112	2.38	HFN122M35030□VA
	1500	30×45	0.15	92	2.80	HFN152M30045□VA
	1500	35×35	0.15	92	2.76	HFN152M35035□VA
	1800	30×60	0.15	75	3.12	HFN182M30060□VA
	1800	35×45	0.15	75	3.12	HFN182M35045□VA
	2200	35×50	0.15	62	3.36	HFN222M35050□VA
	2700	35×55	0.15	49	3.68	HFN272M35055□VA
200 (250)	150	22×25	0.15	885	0.70	HFL151M22025□VA
	180	22×25	0.15	737	0.80	HFL181M22025□VA
	220	22×25	0.15	603	1.00	HFL221M22025□VA
	270	22×30	0.15	491	1.10	HFL271M22030□VA
	270	25×25	0.15	491	1.10	HFL271M25025□VA
	330	22×30	0.15	402	1.25	HFL331M22030□VA
	330	25×25	0.15	402	1.25	HFL331M25025□VA
	390	22×35	0.15	353	1.35	HFL391M22035□VA
	390	25×30	0.15	353	1.35	HFL391M25030□VA
	390	30×25	0.15	353	1.35	HFL391M30025□VA
	470	22×35	0.15	294	1.40	HFL471M22035□VA
	470	25×30	0.15	294	1.41	HFL471M25030□VA
	470	30×25	0.15	294	1.46	HFL471M30025□VA
	560	22×45	0.15	245	1.58	HFL561M22045□VA
	560	25×35	0.15	245	1.52	HFL561M25035□VA
	560	30×30	0.15	245	1.59	HFL561M30030□VA
	560	35×25	0.15	245	1.60	HFL561M35025□VA
	680	22×45	0.15	202	1.76	HFL681M22045□VA
	680	25×40	0.15	202	1.80	HFL681M25040□VA
	680	30×30	0.15	202	1.82	HFL681M30030□VA
	820	25×50	0.15	168	2.09	HFL821M25050□VA
	820	30×35	0.15	168	1.99	HFL821M30035□VA
	820	35×30	0.15	168	2.05	HFL821M35030□VA
	1000	30×40	0.15	136	2.06	HFL102M30040□VA
	1000	35×35	0.15	136	2.22	HFL102M35035□VA
1200	30×50	0.15	112	2.43	HFL122M30050□VA	
1200	35×40	0.15	112	2.42	HFL122M35040□VA	
1500	30×50	0.15	92	2.48	HFL152M30050□VA	
1500	35×45	0.15	92	2.59	HFL152M35045□VA	
1800	35×50	0.15	75	2.70	HFL182M35050□VA	
2200	35×50	0.15	62	2.96	HFL222M35050□VA	
250 (300)	100	22×25	0.15	1327	0.50	HFJ101M22025□VA
	120	22×25	0.15	1106	0.58	HFJ121M22025□VA
	150	22×30	0.15	885	0.79	HFJ151M22030□VA
	150	25×25	0.15	885	0.79	HFJ151M25025□VA
	180	22×25	0.15	737	0.94	HFJ181M22025□VA
	220	22×30	0.15	603	1.10	HFJ221M22030□VA
	220	25×25	0.15	603	1.15	HFJ221M25025□VA
	270	22×35	0.15	491	1.21	HFJ271M22035□VA
	270	25×30	0.15	491	1.27	HFJ271M25030□VA
	270	30×25	0.15	491	1.27	HFJ271M30025□VA
	330	22×40	0.15	402	1.37	HFJ331M22040□VA
	330	25×30	0.15	402	1.30	HFJ331M25030□VA
	330	30×25	0.15	402	1.35	HFJ331M30025□VA
	390	22×45	0.15	353	1.45	HFJ391M22045□VA
	390	25×35	0.15	353	1.40	HFJ391M25035□VA
	390	30×30	0.15	353	1.45	HFJ391M30030□VA
	390	35×25	0.15	353	1.45	HFJ391M35025□VA
	470	22×50	0.15	294	1.62	HFJ471M22050□VA
	470	25×40	0.15	294	1.58	HFJ471M25040□VA
	470	30×30	0.15	294	1.56	HFJ471M30030□VA

WV _{DC} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20°C 120Hz	ESR _{typ} 20°C 120Hz (mΩ)	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number	
250 (300)	470	35×25	0.15	294	1.60	HFJ471M35025□VA	
	560	25×45	0.15	245	1.68	HFJ561M25045□VA	
	560	30×35	0.15	245	1.68	HFJ561M30035□VA	
	560	35×30	0.15	245	1.73	HFJ561M35030□VA	
	680	25×50	0.15	202	1.78	HFJ681M25050□VA	
	680	30×40	0.15	202	1.79	HFJ681M30040□VA	
	680	35×30	0.15	202	1.75	HFJ681M35030□VA	
	820	30×45	0.15	168	1.91	HFJ821M30045□VA	
	820	35×35	0.15	168	1.90	HFJ821M35035□VA	
	1000	30×50	0.15	136	2.06	HFJ102M30050□VA	
	1000	35×40	0.15	136	2.06	HFJ102M35040□VA	
	1200	35×50	0.15	112	2.22	HFJ122M35050□VA	
	1500	35×55	0.15	92	2.50	HFJ152M35055□VA	
	315 (365)	82	22×25	0.15	1327	0.64	HFI820M22025□VA
		100	22×25	0.15	1088	0.69	HFI101M22025□VA
120		22×30	0.15	907	0.75	HFI121M22030□VA	
120		25×25	0.15	907	0.74	HFI121M25025□VA	
150		22×35	0.15	725	0.82	HFI151M22035□VA	
150		25×25	0.15	725	0.77	HFI151M25025□VA	
180		22×40	0.15	605	0.86	HFI181M22040□VA	
180		25×30	0.15	605	0.82	HFI181M25030□VA	
180		30×25	0.15	605	0.85	HFI181M30025□VA	
220		22×45	0.15	495	0.98	HFI221M22045□VA	
220		25×35	0.15	495	0.94	HFI221M25035□VA	
220		30×30	0.15	495	0.99	HFI221M30030□VA	
270		22×50	0.15	403	1.10	HFI271M22050□VA	
270		25×40	0.15	403	1.07	HFI271M25040□VA	
270		30×35	0.15	403	1.12	HFI271M30035□VA	
270		35×25	0.15	403	1.08	HFI271M35025□VA	
330		25×45	0.15	331	1.23	HFI331M25045□VA	
330		30×40	0.15	331	1.22	HFI331M30040□VA	
330		35×30	0.15	331	1.21	HFI331M35030□VA	
390		30×45	0.15	279	1.40	HFI391M30045□VA	
390		35×30	0.15	279	1.30	HFI391M35030□VA	
470		30×50	0.15	232	1.62	HFI471M30050□VA	
470		35×35	0.15	232	1.53	HFI471M35035□VA	
560		30×50	0.15	194	1.72	HFI561M30050□VA	
560		35×40	0.15	194	1.71	HFI561M35040□VA	
680	30×60	0.15	160	1.98	HFI681M30060□VA		
680	35×50	0.15	160	2.16	HFI681M35050□VA		
820	35×55	0.15	133	2.30	HFI821M35055□VA		
1000	35×60	0.15	109	2.48	HFI102M35060□VA		
350 (400)	68	22×25	0.15	1600	0.56	HFH680M22025□VA	
	82	22×25	0.15	1327	0.63	HFH820M22025□VA	
	100	22×30	0.15	1088	0.70	HFH101M22030□VA	
	100	25×25	0.15	1088	0.70	HFH101M25025□VA	
	120	22×35	0.15	907	0.78	HFH121M22035□VA	
	120	25×25	0.15	907	0.73	HFH121M25025□VA	
	150	22×40	0.15	725	0.85	HFH151M22040□VA	
	150	25×30	0.15	725	0.81	HFH151M25030□VA	
	150	30×25	0.15	725	0.84	HFH151M30025□VA	
	180	22×45	0.15	605	0.92	HFH181M22045□VA	
	180	25×35	0.15	605	0.89	HFH181M25035□VA	
	180	30×25	0.15	605	0.86	HFH181M30025□VA	
	220	22×50	0.15	495	0.98	HFH221M22050□VA	
	220	25×40	0.15	495	0.97	HFH221M25040□VA	
	220	30×30	0.15	495	0.94	HFH221M30030□VA	
220	35×25	0.15	495	0.94	HFH221M35025□VA		

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◆ 产品一览表 Standard Ratings

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C 120Hz	ESR _{typ} 20°C 120Hz (m Ω)	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
350 (400)	270	25×45	0.15	403	1.14	HFH271M25045□VA
	270	30×35	0.15	403	1.14	HFH271M30035□VA
	270	35×30	0.15	403	1.17	HFH271M35030□VA
	330	25×45	0.15	331	1.22	HFH331M25045□VA
	330	30×40	0.15	331	1.29	HFH331M30040□VA
	330	35×30	0.15	331	1.26	HFH331M35030□VA
	390	30×45	0.15	279	1.47	HFH391M30045□VA
	390	35×35	0.15	279	1.45	HFH391M35035□VA
	470	30×50	0.15	232	1.68	HFH471M30050□VA
	470	35×40	0.15	232	1.67	HFH471M35040□VA
	560	30×60	0.15	194	1.98	HFH561M30060□VA
	560	35×45	0.15	194	1.91	HFH561M35045□VA
	680	35×50	0.15	160	2.11	HFH681M35050□VA
	820	35×55	0.15	133	2.47	HFH821M35055□VA
	1000	35×60	0.15	109	2.85	HFH102M35060□VA
	1000	40×50	0.15	109	2.85	HFH102M40050□VA
	1200	35×70	0.15	94	3.29	HFH122M35070□VA
	1200	40×60	0.15	94	3.32	HFH122M40060□VA
	1500	40×80	0.15	75	3.76	HFH152M40080□VA
	1500	45×65	0.15	75	3.67	HFH152M45065□VA
1800	40×95	0.15	63	4.22	HFH182M40095□VA	
1800	45×75	0.15	63	4.06	HFH182M45075□VA	
2200	45×90	0.15	54	4.70	HFH222M45090□VA	
2200	50×75	0.15	54	4.61	HFH222M50075□VA	
2700	45×100	0.15	44	5.12	HFH272M45100□VA	
2700	50×90	0.15	44	5.18	HFH272M50090□VA	
3300	50×105	0.15	38	5.70	HFH332M50105□VA	
400 (450)	47	22×25	0.15	2202	0.40	HFG470M22025□VA
	56	22×25	0.15	1848	0.51	HFG560M22025□VA
	68	22×25	0.15	1522	0.55	HFG680M22025□VA
	82	22×30	0.15	1262	0.64	HFG820M22030□VA
	82	25×25	0.15	1262	0.64	HFG820M25025□VA
	100	22×30	0.15	1035	0.70	HFG101M22030□VA
	100	25×25	0.15	1035	0.70	HFG101M25025□VA
	120	22×35	0.15	863	0.76	HFG121M22035□VA
	120	25×30	0.15	863	0.77	HFG121M25030□VA
	120	30×25	0.15	863	0.80	HFG121M30025□VA
	150	22×40	0.15	690	0.83	HFG151M22040□VA
	150	25×35	0.15	690	0.84	HFG151M25035□VA
	150	30×25	0.15	690	0.82	HFG151M30025□VA
	180	22×45	0.15	575	0.92	HFG181M22045□VA
	180	25×40	0.15	575	0.93	HFG181M25040□VA
	180	30×30	0.15	575	0.92	HFG181M30030□VA
	180	35×25	0.15	575	0.94	HFG181M35025□VA
	220	25×40	0.15	471	0.99	HFG221M25040□VA
	220	30×30	0.15	471	0.98	HFG221M30030□VA
	270	25×45	0.15	383	1.14	HFG271M25045□VA
270	30×35	0.15	383	1.14	HFG271M30035□VA	
330	30×40	0.15	314	1.38	HFG331M30040□VA	
330	35×30	0.15	314	1.35	HFG331M35030□VA	
390	30×45	0.15	265	1.53	HFG391M30045□VA	
390	35×35	0.15	265	1.51	HFG391M35035□VA	
470	30×50	0.15	220	1.82	HFG471M30050□VA	
470	35×45	0.15	220	1.90	HFG471M35045□VA	
560	35×50	0.15	185	2.12	HFG561M35050□VA	
680	35×50	0.15	153	2.30	HFG681M35050□VA	
820	35×60	0.15	126	2.61	HFG821M35060□VA	
1000	35×60	0.15	106	2.80	HFG102M35060□VA	

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C 120Hz	ESR _{typ} 20°C 120Hz (m Ω)	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
400 (450)	1000	40×60	0.15	106	3.02	HFG102M40060□VA
	1200	35×80	0.15	89	3.40	HFG122M35080□VA
	1200	40×70	0.15	89	3.45	HFG122M40070□VA
	1500	40×80	0.15	71	3.90	HFG152M40080□VA
	1500	45×70	0.15	71	3.93	HFG152M45070□VA
	1800	45×90	0.15	59	4.50	HFG182M45090□VA
	1800	50×80	0.15	59	4.53	HFG182M50080□VA
	2200	50×90	0.15	48	4.90	HFG222M50090□VA
	2700	50×105	0.15	39	5.60	HFG272M50105□VA
	47	22×25	0.20	2767	0.38	HFE470M22025□VA
	56	22×25	0.20	2322	0.47	HFE560M22025□VA
	68	22×25	0.20	1912	0.56	HFE680M22030□VA
	82	22×30	0.20	1586	0.64	HFE820M22030□VA
	82	25×25	0.20	1586	0.64	HFE820M25025□VA
	100	22×30	0.20	1300	0.70	HFE101M22030□VA
100	25×25	0.20	1300	0.70	HFE101M25025□VA	
120	22×35	0.20	1083	0.81	HFE121M22035□VA	
120	25×30	0.20	1083	0.82	HFE121M25030□VA	
120	30×25	0.20	1083	0.85	HFE121M30025□VA	
150	22×40	0.20	867	0.90	HFE151M22040□VA	
150	25×35	0.20	867	0.92	HFE151M25035□VA	
150	30×30	0.20	867	0.96	HFE151M30030□VA	
180	25×40	0.20	723	1.04	HFE181M25040□VA	
180	30×30	0.20	723	1.03	HFE181M30030□VA	
220	25×45	0.20	591	1.17	HFE221M25045□VA	
220	30×30	0.20	591	1.10	HFE221M30030□VA	
270	30×40	0.20	482	1.30	HFE271M30040□VA	
450 (500)	270	35×30	0.20	482	1.27	HFE271M35030□VA
	330	30×45	0.20	394	1.44	HFE331M30045□VA
	330	35×35	0.20	394	1.42	HFE331M35035□VA
	390	30×50	0.20	333	1.58	HFE391M30050□VA
	390	35×40	0.20	333	1.58	HFE391M35040□VA
	470	35×50	0.20	277	1.83	HFE471M35050□VA
	560	35×50	0.20	232	1.95	HFE561M35050□VA
	680	35×50	0.20	191	2.14	HFE681M35050□VA
	820	35×70	0.20	159	2.79	HFE821M35070□VA
	820	40×60	0.20	159	2.81	HFE821M40060□VA
	1000	35×70	0.20	130	3.27	HFE102M35070□VA
	1000	40×60	0.20	130	3.30	HFE102M40060□VA
	1200	40×70	0.20	108	3.92	HFE122M40070□VA
	1200	45×60	0.20	108	3.92	HFE122M45060□VA
	1500	40×90	0.20	87	4.58	HFE152M40090□VA
1500	45×80	0.20	87	4.64	HFE152M45080□VA	
1800	45×90	0.20	72	5.16	HFE182M45090□VA	
2200	50×105	0.20	59	6.11	HFE222M50105□VA	
39	22×25	0.20	3334	0.35	HFC390M22025□VA	
47	22×30	0.20	2767	0.42	HFC470M22030□VA	
56	22×30	0.20	2322	0.46	HFC560M22030□VA	
68	22×35	0.20	1912	0.54	HFC680M22035□VA	
68	25×25	0.20	1912	0.51	HFC680M25025□VA	
82	22×40	0.20	1586	0.60	HFC820M22040□VA	
82	25×30	0.20	1586	0.57	HFC820M25030□VA	
100	25×35	0.20	1300	0.68	HFC101M25035□VA	
100	30×30	0.20	1300	0.71	HFC101M30030□VA	
120	25×40	0.20	1083	0.75	HFC121M25040□VA	
120	30×30	0.20	1083	0.74	HFC121M30030□VA	
150	30×30	0.20	867	0.78	HFC151M30030□VA	
150	35×25	0.20	867	0.80	HFC151M35025□VA	

*产品编码中□内为产品端子引出型式代码
*□Enter the appropriate terminal code

HF 系列 SERIES

◆ 产品一览表 Standard Ratings

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C 120Hz	ESR _{typ} 20°C 120Hz (m Ω)	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
500 (550)	180	30×35	0.20	723	0.88	HFC181M30035□VA
	180	35×30	0.20	723	0.91	HFC181M35030□VA
	220	30×40	0.20	591	1.00	HFC221M30040□VA
	220	35×30	0.20	591	0.98	HFC221M35030□VA
	270	30×45	0.20	482	1.18	HFC271M30045□VA
	270	35×35	0.20	482	1.17	HFC271M35035□VA
	330	30×45	0.20	394	1.31	HFC331M30045□VA
	330	35×40	0.20	394	1.36	HFC331M35040□VA
	390	35×45	0.20	333	1.54	HFC391M35045□VA
	470	35×50	0.20	277	1.75	HFC471M35050□VA
	560	35×60	0.20	232	2.00	HFC561M35060□VA
	680	35×70	0.20	191	2.20	HFC681M35070□VA
	680	40×60	0.20	191	2.22	HFC681M40060□VA
	820	35×80	0.20	159	2.53	HFC821M35080□VA
	820	40×70	0.20	159	2.57	HFC821M40070□VA
	1000	40×80	0.20	130	3.00	HFC102M40080□VA
	1000	45×70	0.20	130	3.02	HFC102M45070□VA
	1200	40×90	0.20	108	3.76	HFC122M40090□VA
1200	45×80	0.20	108	3.81	HFC122M45080□VA	
1500	45×100	0.20	87	4.70	HFC152M45100□VA	
1500	50×90	0.20	87	4.76	HFC152M50090□VA	
1800	50×105	0.20	72	5.60	HFC182M50105□VA	

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C 120Hz	ESR _{typ} 20°C 120Hz (m Ω)	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number	
550 (600)	180	30×45	0.20	723	0.96	HFZ181M30045□VA	
	220	30×50	0.20	591	1.10	HFZ221M30050□VA	
	270	35×45	0.20	482	1.24	HFZ271M35045□VA	
	330	35×50	0.20	394	1.39	HFZ331M35050□VA	
	390	35×55	0.20	333	1.62	HFZ391M35055□VA	
	470	35×60	0.20	277	1.85	HFZ471M35060□VA	
	560	35×70	0.20	232	2.14	HFZ561M35070□VA	
	560	40×60	0.20	232	2.16	HFZ561M40060□VA	
	680	40×80	0.20	191	2.66	HFZ681M40080□VA	
	680	45×70	0.20	191	2.68	HFZ681M45070□VA	
	820	45×80	0.20	159	3.12	HFZ821M45080□VA	
	820	50×70	0.20	159	3.12	HFZ821M50070□VA	
	1000	45×100	0.20	130	3.80	HFZ102M45100□VA	
	1000	50×80	0.20	130	3.60	HFZ102M50080□VA	
	1200	50×90	0.20	108	4.20	HFZ122M50090□VA	
	600 (650)	180	35×45	0.20	1327	0.92	HFB181M35045□VA
		220	35×50	0.20	1086	1.08	HFB221M35050□VA
		270	35×60	0.20	885	1.30	HFB271M35060□VA
330		35×70	0.20	724	1.50	HFB331M35070□VA	
470		35×80	0.20	508	1.92	HFB471M35080□VA	
560		40×100	0.20	427	2.44	HFB561M40100□VA	

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*记载之外的体积，请另行咨询。

* Please ask for advice for other sizes.

*铝电解电容器由于承受纹波电流而发热，随着温升而发生性能劣化。请在使用中降低产品承受的纹波电流。

*Aluminum electrolytic capacitor will emit heat when ripple current is applied, the performance will deteriorate when temp. rises. Please reduce the ripple current when using capacitor.