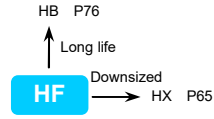


# HF 系列 SERIES



- 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



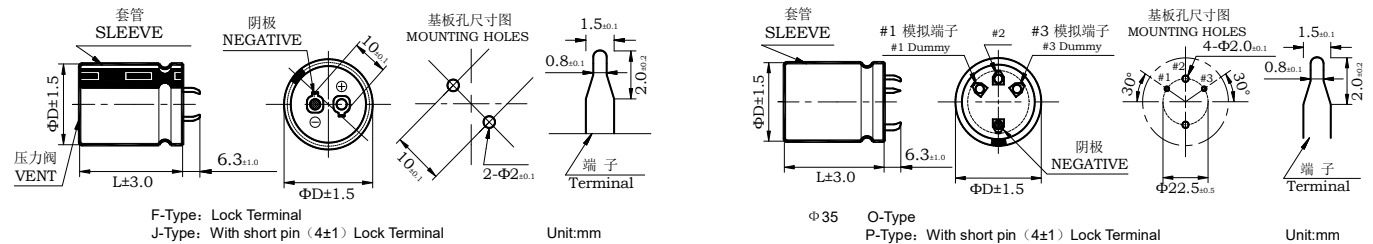
## 规格表 SPECIFICATIONS

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<sub>R</sub>(V)</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> <td>160~315</td> <td>350~400</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>0.18</td> <td>0.20</td> </tr> </table>		U <sub>R</sub> (V)	16	25	35	50	63	80	100	160~315	350~400	450~600	tanδ	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.18	0.20
U <sub>R</sub> (V)	16	25	35	50	63	80	100	160~315	350~400	450~600														
tanδ	0.50	0.45	0.40	0.35	0.30	0.25	0.20	0.15	0.18	0.20														
阻抗比 Impedance Ratio (MAX) 120Hz	<table border="1"> <tr> <td>U<sub>R</sub>(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<sub>25°C</sub>/Z<sub>+20°C</sub></td> <td>4</td> <td>3</td> <td>4</td> <td>7</td> <td>7</td> <td>8</td> </tr> <tr> <td>Z<sub>40°C</sub>/Z<sub>+20°C</sub></td> <td>18</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		U <sub>R</sub> (V)	16~100	160~200	250	315	350~400	450~600	Z <sub>25°C</sub> /Z <sub>+20°C</sub>	4	3	4	7	7	8	Z <sub>40°C</sub> /Z <sub>+20°C</sub>	18						
U <sub>R</sub> (V)	16~100	160~200	250	315	350~400	450~600																		
Z <sub>25°C</sub> /Z <sub>+20°C</sub>	4	3	4	7	7	8																		
Z <sub>40°C</sub> /Z <sub>+20°C</sub>	18																							
漏电流 Leakage Current (MAX)	I=0.01C <sub>R</sub> U <sub>R</sub> 或 1.5mA 取小者 (20°C, 施加额定电压 5 分钟后) I=0.01C <sub>R</sub> U <sub>R</sub> or 1.5mA whichever is minimum. (at 20°C, After 5 minutes application of rated voltage) I=漏电流 (µA)      U <sub>R</sub> =额定电压 (V)      C <sub>R</sub> =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 <sub>R</sub> I <sub>R</sub> 105°C ≤1% Failure rate	U <sub>R</sub> 1.4×I <sub>R</sub> 40°C ≤1% Failure rate	U <sub>R</sub> I <sub>R</sub> 105°C 0%	U <sub>R</sub> =0 I <sub>R</sub> =0 105°C 0% Back up to 20 °C and placed more than 24 hours. U <sub>R</sub> to be applied for 60 min before measurement.

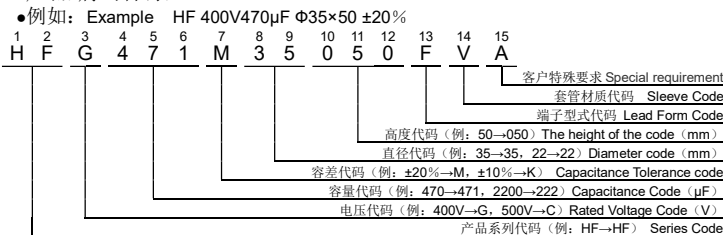
## 尺寸图 Dimensions

• 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 <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	$\tan\delta$ 20°C 120Hz	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
16 (20)	6800	22×25	0.50	1.61	HFV682M22025□VA
	8200	22×25	0.50	1.76	HFV822M22025□VA
	10000	22×30	0.50	2.00	HFV103M22030□VA
	10000	25×25	0.50	2.00	HFV103M25025□VA
	12000	22×35	0.50	2.28	HFV123M22035□VA
	12000	25×30	0.50	2.30	HFV123M25030□VA
	12000	30×25	0.50	2.38	HFV123M30025□VA
	15000	22×40	0.50	2.64	HFV153M22040□VA
	15000	25×30	0.50	2.51	HFV153M25030□VA
	15000	30×25	0.50	2.66	HFV153M30025□VA
	18000	22×45	0.50	2.98	HFV183M22045□VA
	18000	25×35	0.50	3.00	HFV183M25035□VA
	18000	30×30	0.50	3.00	HFV183M30030□VA
	18000	35×25	0.50	3.10	HFV183M35025□VA
	22000	25×40	0.50	3.23	HFV223M25040□VA
	22000	30×35	0.50	3.39	HFV223M30035□VA
	22000	35×25	0.50	3.43	HFV223M35025□VA
	27000	25×50	0.50	3.81	HFV273M25050□VA
	27000	30×35	0.50	4.08	HFV273M30035□VA
	27000	35×30	0.50	3.74	HFV273M35030□VA
	33000	30×45	0.50	4.30	HFV333M30045□VA
	33000	35×35	0.50	4.24	HFV333M35035□VA
	39000	30×50	0.50	4.74	HFV393M30050□VA
	39000	35×35	0.50	4.70	HFV393M35035□VA
47000	30×55	0.50	5.30	HFV473M30055□VA	
47000	35×40	0.50	5.27	HFV473M35040□VA	
56000	30×60	0.50	5.90	HFV563M30060□VA	
56000	35×45	0.50	5.80	HFV563M35045□VA	
68000	35×55	0.50	6.20	HFV683M35055□VA	
82000	35×60	0.50	6.30	HFV823M35060□VA	
25 (32)	4700	22×25	0.45	1.55	HFU472M22025□VA
	5600	22×30	0.45	1.75	HFU562M22030□VA
	6800	22×30	0.45	1.91	HFU682M22030□VA
	6800	25×25	0.45	1.90	HFU682M25025□VA
	8200	22×35	0.45	2.14	HFU822M22035□VA
	8200	25×30	0.45	2.16	HFU822M25030□VA
	8200	30×25	0.45	2.25	HFU822M30025□VA
	10000	22×40	0.45	2.40	HFU103M22040□VA
	10000	25×35	0.45	2.44	HFU103M25035□VA
	10000	30×25	0.45	2.41	HFU103M30025□VA
	12000	22×45	0.45	2.69	HFU123M22045□VA
	12000	25×40	0.45	2.74	HFU123M25040□VA
	12000	30×30	0.45	2.70	HFU123M30030□VA
	12000	35×25	0.45	2.80	HFU123M35025□VA
	15000	25×45	0.45	3.15	HFU153M25045□VA
	15000	30×35	0.45	3.13	HFU153M30035□VA
	15000	35×25	0.45	3.20	HFU153M35025□VA
	18000	25×50	0.45	3.54	HFU183M25050□VA
	18000	30×40	0.45	3.58	HFU183M30040□VA
	18000	35×30	0.45	3.55	HFU183M35030□VA
	22000	30×45	0.45	4.24	HFU223M30045□VA
	22000	35×35	0.45	4.00	HFU223M35035□VA
	27000	30×50	0.45	4.75	HFU273M30050□VA
	27000	35×40	0.45	4.70	HFU273M35040□VA
33000	30×60	0.45	5.39	HFU333M30060□VA	
33000	35×45	0.45	5.35	HFU333M35045□VA	
39000	35×50	0.45	5.70	HFU393M35050□VA	
47000	35×60	0.45	6.20	HFU473M35060□VA	
35 (44)	2700	22×25	0.40	1.20	HFT272M22025□VA
	3300	22×30	0.40	1.52	HFT332M22030□VA
	3300	25×25	0.40	1.50	HFT332M25025□VA
	3900	22×30	0.40	1.65	HFT392M22030□VA
	3900	25×25	0.40	1.61	HFT392M25025□VA
	4700	22×35	0.40	1.95	HFT472M22035□VA
	4700	25×30	0.40	1.92	HFT472M25030□VA
	4700	30×25	0.40	1.90	HFT472M30025□VA
	5600	22×40	0.40	2.14	HFT562M22040□VA
	5600	25×30	0.40	2.05	HFT562M25030□VA
	5600	30×25	0.40	2.13	HFT562M30025□VA
	6800	22×45	0.40	2.30	HFT682M22045□VA
	6800	25×35	0.40	2.32	HFT682M25035□VA
	6800	30×30	0.40	2.35	HFT682M30030□VA
	6800	35×25	0.40	2.33	HFT682M35025□VA
	8200	22×50	0.40	2.68	HFT822M22050□VA
	8200	25×40	0.40	2.62	HFT822M25040□VA
	8200	30×30	0.40	2.60	HFT822M30030□VA
	8200	35×25	0.40	2.79	HFT822M35025□VA
	10000	25×45	0.40	2.92	HFT103M25045□VA
	10000	30×35	0.40	2.95	HFT103M30035□VA
	10000	35×30	0.40	2.98	HFT103M35030□VA
	12000	25×50	0.40	3.26	HFT123M25050□VA
	12000	30×40	0.40	3.28	HFT123M30040□VA
12000	35×30	0.40	3.22	HFT123M35030□VA	
15000	30×45	0.40	3.74	HFT153M30045□VA	
15000	35×35	0.40	3.70	HFT153M35035□VA	
18000	30×50	0.40	4.20	HFT183M30050□VA	
18000	35×40	0.40	4.16	HFT183M35040□VA	
22000	35×50	0.40	4.92	HFT223M35050□VA	
27000	35×55	0.40	5.50	HFT273M35055□VA	
50 (63)	1500	22×25	0.35	1.22	HFR152M22025□VA
	1800	22×25	0.35	1.32	HFR182M22025□VA
	2200	22×30	0.35	1.45	HFR222M22030□VA
	2200	25×25	0.35	1.47	HFR222M25025□VA
	2700	22×30	0.35	1.70	HFR272M22030□VA
	2700	25×25	0.35	1.72	HFR272M25025□VA
	3300	22×35	0.35	1.99	HFR332M22035□VA
	3300	25×30	0.35	2.01	HFR332M25030□VA
	3300	30×25	0.35	2.03	HFR332M30025□VA
	3900	22×40	0.35	2.25	HFR392M22040□VA
	3900	25×35	0.35	2.28	HFR392M25035□VA
	3900	30×25	0.35	2.22	HFR392M30025□VA
	4700	22×45	0.35	2.56	HFR472M22045□VA
	4700	25×40	0.35	2.60	HFR472M25040□VA
	4700	30×30	0.35	2.58	HFR472M30030□VA
	4700	35×25	0.35	2.67	HFR472M35025□VA
	5600	22×50	0.35	2.90	HFR562M22050□VA
	5600	25×40	0.35	2.82	HFR562M25040□VA
	5600	30×35	0.35	2.95	HFR562M30035□VA
	5600	35×25	0.35	3.00	HFR562M35025□VA
	6800	25×50	0.35	3.38	HFR682M25050□VA
	6800	30×40	0.35	3.40	HFR682M30040□VA
	6800	35×30	0.35	3.32	HFR682M35030□VA
	8200	30×45	0.35	3.72	HFR822M30045□VA
8200	35×35	0.35	3.67	HFR822M35035□VA	
10000	30×50	0.35	4.10	HFR103M30050□VA	
10000	35×40	0.35	4.08	HFR103M35040□VA	

\*产品编码中口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 <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	$\tan\delta$ 20°C 120Hz	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
50 (63)	12000	30×55	0.35	4.52	HFR123M30055□VA
	12000	35×45	0.35	4.50	HFR123M35045□VA
	15000	35×50	0.35	4.80	HFR153M35050□VA
	18000	35×60	0.35	5.10	HFR183M35060□VA
63 (79)	1000	22×25	0.30	1.15	HFQ102M22025□VA
	1200	22×25	0.30	1.26	HFQ122M22025□VA
	1500	22×30	0.30	1.45	HFQ152M22030□VA
	1500	25×25	0.30	1.47	HFQ152M25025□VA
	1800	22×30	0.30	1.53	HFQ182M22030□VA
	1800	25×25	0.30	1.53	HFQ182M25025□VA
	2200	22×35	0.30	1.73	HFQ222M22035□VA
	2200	25×30	0.30	1.75	HFQ222M25030□VA
	2200	30×25	0.30	1.78	HFQ222M30025□VA
	2700	22×40	0.30	1.98	HFQ272M22040□VA
	2700	25×35	0.30	2.00	HFQ272M25035□VA
	2700	30×25	0.30	1.95	HFQ272M30025□VA
	3300	22×45	0.30	2.30	HFQ332M22045□VA
	3300	25×40	0.30	2.28	HFQ332M25040□VA
	3300	30×30	0.30	2.25	HFQ332M30030□VA
	3300	35×25	0.30	2.42	HFQ332M35025□VA
	3900	25×45	0.30	2.55	HFQ392M25045□VA
	3900	30×35	0.30	2.56	HFQ392M30035□VA
	3900	35×25	0.30	2.60	HFQ392M35025□VA
	4700	25×50	0.30	2.89	HFQ472M25050□VA
	4700	30×35	0.30	2.86	HFQ472M30035□VA
	4700	35×30	0.30	2.84	HFQ472M35030□VA
	5600	30×40	0.30	3.26	HFQ562M30040□VA
	5600	35×35	0.30	3.24	HFQ562M35035□VA
	6800	30×50	0.30	3.74	HFQ682M30050□VA
	6800	35×35	0.30	3.70	HFQ682M35035□VA
	8200	30×55	0.30	4.10	HFQ822M30055□VA
	8200	35×40	0.30	4.00	HFQ822M35040□VA
10000	35×50	0.30	4.70	HFQ103M35050□VA	
12000	35×55	0.30	4.90	HFQ123M35055□VA	
80 (100)	820	22×25	0.25	1.12	HFP821M22025□VA
	1000	22×25	0.25	1.25	HFP102M22025□VA
	1200	22×30	0.25	1.40	HFP122M22030□VA
	1200	25×25	0.25	1.40	HFP122M25025□VA
	1500	22×35	0.25	1.61	HFP152M22035□VA
	1500	25×30	0.25	1.62	HFP152M25030□VA
	1800	22×40	0.25	1.83	HFP182M22040□VA
	1800	25×30	0.25	1.82	HFP182M25030□VA
	1800	30×25	0.25	1.81	HFP182M30025□VA
	2200	22×45	0.25	2.09	HFP222M22045□VA
	2200	25×35	0.25	2.01	HFP222M25035□VA
	2200	30×30	0.25	2.10	HFP222M30030□VA
	2200	35×25	0.25	2.17	HFP222M35025□VA
	2700	22×50	0.25	2.43	HFP272M22050□VA
	2700	25×40	0.25	2.43	HFP272M25040□VA
	2700	30×30	0.25	2.43	HFP272M30030□VA
	2700	35×25	0.25	2.43	HFP272M35025□VA
	3300	25×50	0.25	2.76	HFP332M25050□VA
	3300	30×35	0.25	2.72	HFP332M30035□VA
	3300	35×30	0.25	2.71	HFP332M35030□VA
	3900	30×40	0.25	3.00	HFP392M30040□VA
	3900	35×30	0.25	2.97	HFP392M35030□VA
	4700	30×45	0.25	3.34	HFP472M30045□VA
	4700	35×40	0.25	3.38	HFP472M35040□VA

WV <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	$\tan\delta$ 20°C 120Hz	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
80 (100)	5600	30×55	0.25	3.80	HFP562M30055□VA
	5600	35×40	0.25	3.80	HFP562M35040□VA
	6800	30×60	0.25	3.90	HFP682M30060□VA
	6800	35×45	0.25	3.90	HFP682M35045□VA
	8200	35×55	0.25	4.20	HFP822M35055□VA
	10000	35×60	0.25	4.48	HFP103M35060□VA
100 (125)	470	22×25	0.20	0.92	HFO471M22025□VA
	560	22×25	0.20	1.07	HFO561M22025□VA
	680	22×30	0.20	1.15	HFO681M22030□VA
	680	25×25	0.20	1.15	HFO681M25025□VA
	820	22×30	0.20	1.35	HFO821M22030□VA
	820	25×25	0.20	1.35	HFO821M25025□VA
	1000	22×35	0.20	1.54	HFO102M22035□VA
	1000	25×30	0.20	1.56	HFO102M25030□VA
	1000	30×25	0.20	1.52	HFO102M30025□VA
	1200	22×40	0.20	1.74	HFO122M22040□VA
	1200	25×35	0.20	1.76	HFO122M25035□VA
	1200	30×25	0.20	1.71	HFO122M30025□VA
	1500	22×50	0.20	1.99	HFO152M22050□VA
	1500	25×40	0.20	2.03	HFO152M25040□VA
	1500	30×30	0.20	2.00	HFO152M30030□VA
	1500	35×25	0.20	2.08	HFO152M35025□VA
	1800	25×45	0.20	2.28	HFO182M25045□VA
	1800	30×35	0.20	2.27	HFO182M30035□VA
	1800	35×25	0.20	2.20	HFO182M35025□VA
	2200	25×50	0.20	2.57	HFO222M25050□VA
	2200	30×40	0.20	2.59	HFO222M30040□VA
	2200	35×30	0.20	2.52	HFO222M35030□VA
	2700	30×45	0.20	2.94	HFO272M30045□VA
	2700	35×35	0.20	2.90	HFO272M35035□VA
	3300	30×50	0.20	3.32	HFO332M30050□VA
	3300	35×40	0.20	3.31	HFO332M35040□VA
	3900	30×60	0.20	3.60	HFO392M30060□VA
	3900	35×45	0.20	3.69	HFO392M35045□VA
4700	35×50	0.20	4.14	HFO472M35050□VA	
5600	35×60	0.20	4.70	HFO562M35060□VA	
6800	35×65	0.20	5.40	HFO682M35065□VA	
160 (200)	180	22×25	0.15	0.70	HFN181M22025□VA
	220	22×25	0.15	0.78	HFN221M22025□VA
	270	22×30	0.15	1.10	HFN271M22030□VA
	330	22×30	0.15	1.20	HFN331M22030□VA
	330	25×25	0.15	1.22	HFN331M25025□VA
	390	22×35	0.15	1.30	HFN391M22035□VA
	390	25×30	0.15	1.32	HFN391M25030□VA
	390	30×25	0.15	1.31	HFN391M30025□VA
	470	22×40	0.15	1.55	HFN471M22040□VA
	470	25×35	0.15	1.58	HFN471M25035□VA
	470	30×25	0.15	1.56	HFN471M30025□VA
	560	22×45	0.15	1.67	HFN561M22045□VA
	560	25×35	0.15	1.69	HFN561M25035□VA
	560	30×30	0.15	1.68	HFN561M30030□VA
	680	22×50	0.15	1.82	HFN681M22050□VA
	680	25×40	0.15	1.85	HFN681M25040□VA
	680	30×30	0.15	1.84	HFN681M30030□VA
	680	35×25	0.15	1.83	HFN681M35025□VA
	820	25×45	0.15	2.04	HFN821M25045□VA
	820	30×35	0.15	2.06	HFN821M30035□VA
	820	35×30	0.15	2.05	HFN821M35030□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 <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	$\tan\delta$ 20°C/120Hz	Ripple Current 105°C/120Hz (Arms)	Catalog Part Number
160 (200)	1000	25×50	0.15	2.40	HFN102M25050□VA
	1000	30×40	0.15	2.25	HFN102M30040□VA
	1000	35×30	0.15	2.28	HFN102M35030□VA
	1200	30×45	0.15	3.49	HFN122M30045□VA
	1200	35×35	0.15	3.49	HFN122M35035□VA
	1500	30×50	0.15	2.84	HFN152M30050□VA
	1500	35×40	0.15	2.86	HFN152M35040□VA
	1800	30×60	0.15	3.32	HFN182M30060□VA
	1800	35×45	0.15	3.32	HFN182M35045□VA
	2200	35×55	0.15	3.60	HFN222M35055□VA
2700	35×60	0.15	4.16	HFN272M35060□VA	
200 (250)	150	22×25	0.15	0.70	HFL151M22025□VA
	180	22×25	0.15	0.80	HFL181M22025□VA
	220	22×25	0.15	1.00	HFL221M22025□VA
	270	22×30	0.15	1.10	HFL271M22030□VA
	270	25×25	0.15	1.10	HFL271M25025□VA
	330	22×35	0.15	1.25	HFL331M22035□VA
	330	25×25	0.15	1.25	HFL331M25025□VA
	390	22×35	0.15	1.35	HFL391M22035□VA
	390	25×30	0.15	1.35	HFL391M25030□VA
	390	30×25	0.15	1.35	HFL391M30025□VA
	470	22×35	0.15	1.40	HFL471M22035□VA
	470	25×35	0.15	1.47	HFL471M25035□VA
	470	30×25	0.15	1.56	HFL471M30025□VA
	560	22×45	0.15	1.58	HFL561M22045□VA
	560	25×35	0.15	1.65	HFL561M25035□VA
	560	30×30	0.15	1.62	HFL561M30030□VA
	560	35×25	0.15	1.60	HFL561M35025□VA
	680	25×45	0.15	1.80	HFL681M25045□VA
	680	30×35	0.15	1.82	HFL681M30035□VA
	680	35×25	0.15	1.96	HFL681M35025□VA
820	25×50	0.15	1.87	HFL821M25050□VA	
820	30×40	0.15	1.99	HFL821M30040□VA	
820	35×30	0.15	2.07	HFL821M35030□VA	
1000	30×45	0.15	2.17	HFL102M30045□VA	
1000	35×35	0.15	2.22	HFL102M35035□VA	
1200	30×50	0.15	2.23	HFL122M30050□VA	
1200	35×40	0.15	2.42	HFL122M35040□VA	
1500	30×60	0.15	2.60	HFL152M30060□VA	
1500	35×45	0.15	2.59	HFL152M35045□VA	
1800	35×50	0.15	2.70	HFL182M35050□VA	
2200	35×60	0.15	3.20	HFL222M35060□VA	
250 (300)	100	22×25	0.15	0.50	HFJ101M22025□VA
	120	22×25	0.15	0.58	HFJ121M22025□VA
	150	22×30	0.15	0.79	HFJ151M22030□VA
	150	25×25	0.15	0.79	HFJ151M25025□VA
	180	22×30	0.15	0.94	HFJ181M22030□VA
	180	25×25	0.15	0.90	HFJ181M25025□VA
	220	22×35	0.15	1.10	HFJ221M22035□VA
	220	25×30	0.15	1.15	HFJ221M25030□VA
	270	22×40	0.15	1.18	HFJ271M22040□VA
	270	25×35	0.15	1.27	HFJ271M25035□VA
	270	30×25	0.15	1.27	HFJ271M30025□VA
	330	22×45	0.15	1.30	HFJ331M22045□VA
	330	25×35	0.15	1.30	HFJ331M25035□VA
	330	30×30	0.15	1.35	HFJ331M30030□VA
	330	35×25	0.15	1.30	HFJ331M35025□VA
390	22×50	0.15	1.45	HFJ391M22050□VA	
250 (300)	390	25×40	0.15	1.50	HFJ391M25040□VA
	390	30×30	0.15	1.45	HFJ391M30030□VA
	390	35×25	0.15	1.45	HFJ391M35025□VA
	470	22×50	0.15	1.37	HFJ471M22050□VA
	470	25×40	0.15	1.52	HFJ471M25040□VA
	470	30×30	0.15	1.36	HFJ471M30030□VA
	470	35×25	0.15	1.40	HFJ471M35025□VA
	560	25×45	0.15	1.60	HFJ561M25045□VA
	560	30×35	0.15	1.57	HFJ561M30035□VA
	560	35×30	0.15	1.56	HFJ561M35030□VA
	680	25×50	0.15	1.66	HFJ681M25050□VA
	680	30×40	0.15	1.76	HFJ681M30040□VA
	680	35×35	0.15	1.75	HFJ681M35035□VA
	820	30×50	0.15	1.91	HFJ821M30050□VA
	820	35×40	0.15	1.90	HFJ821M35040□VA
	1000	30×50	0.15	1.99	HFJ102M30050□VA
	1000	35×40	0.15	1.99	HFJ102M35040□VA
	1200	35×50	0.15	2.19	HFJ122M35050□VA
	1500	35×60	0.15	2.65	HFJ152M35060□VA
	315 (365)	82	22×25	0.15	0.64
100		22×25	0.15	0.69	HFI101M22025□VA
120		22×30	0.15	0.75	HFI121M22030□VA
120		25×25	0.15	0.74	HFI121M25025□VA
150		22×35	0.15	0.82	HFI151M22035□VA
150		25×30	0.15	0.82	HFI151M25030□VA
180		22×40	0.15	0.86	HFI181M22040□VA
180		25×35	0.15	0.86	HFI181M25035□VA
180		30×25	0.15	0.85	HFI181M30025□VA
220		22×45	0.15	0.98	HFI221M22045□VA
220		25×40	0.15	1.04	HFI221M25040□VA
220		30×30	0.15	1.03	HFI221M30030□VA
270		22×50	0.15	1.10	HFI271M22050□VA
270		25×45	0.15	1.16	HFI271M25045□VA
270		30×35	0.15	1.16	HFI271M30035□VA
270		35×25	0.15	1.15	HFI271M35025□VA
330		25×50	0.15	1.33	HFI331M25050□VA
330		30×40	0.15	1.32	HFI331M30040□VA
330		35×30	0.15	1.31	HFI331M35030□VA
390		30×45	0.15	1.40	HFI391M30045□VA
390	35×35	0.15	1.47	HFI391M35035□VA	
470	30×50	0.15	1.70	HFI471M30050□VA	
470	35×40	0.15	1.70	HFI471M35040□VA	
560	30×55	0.15	1.95	HFI561M30055□VA	
560	35×45	0.15	2.05	HFI561M35045□VA	
680	30×60	0.15	2.17	HFI681M30060□VA	
680	35×50	0.15	2.17	HFI681M35050□VA	
820	35×55	0.15	2.20	HFI821M35055□VA	
1000	35×60	0.15	2.48	HFI102M35060□VA	
350 (400)	68	22×25	0.18	0.56	HFH680M22025□VA
	82	22×25	0.18	0.63	HFH820M22025□VA
	100	22×30	0.18	0.70	HFH101M22030□VA
	100	25×25	0.18	0.70	HFH101M25025□VA
	120	22×35	0.18	0.73	HFH121M22035□VA
	120	25×25	0.18	0.72	HFH121M25025□VA
	150	22×40	0.18	0.79	HFH151M22040□VA
	150	25×30	0.18	0.82	HFH151M25030□VA
	150	30×25	0.18	0.82	HFH151M30025□VA
	180	22×45	0.18	0.89	HFH181M22045□VA

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\*□Enter the appropriate terminal code

## ◆ 产品一览表 Standard Ratings

WV <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	$\tan\delta$ 20°C 120Hz	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
350 (400)	180	25×35	0.18	0.89	HFH181M25035□VA
	180	30×25	0.18	0.85	HFH181M30025□VA
	220	22×50	0.18	0.93	HFH221M22050□VA
	220	25×40	0.18	0.97	HFH221M25040□VA
	220	30×30	0.18	0.96	HFH221M30030□VA
	220	35×25	0.18	0.98	HFH221M35025□VA
	270	25×50	0.18	1.16	HFH271M25050□VA
	270	30×35	0.18	1.14	HFH271M30035□VA
	270	35×30	0.18	1.14	HFH271M35030□VA
	330	25×45	0.18	1.22	HFH331M25045□VA
	330	30×45	0.18	1.34	HFH331M30045□VA
	330	35×35	0.18	1.34	HFH331M35035□VA
	390	30×50	0.18	1.54	HFH391M30050□VA
	390	35×40	0.18	1.54	HFH391M35040□VA
	470	30×50	0.18	1.68	HFH471M30050□VA
	470	35×45	0.18	1.76	HFH471M35045□VA
	560	30×60	0.18	1.98	HFH561M30060□VA
	560	35×50	0.18	1.95	HFH561M35050□VA
	680	35×55	0.18	2.20	HFH681M35055□VA
	820	35×60	0.18	2.56	HFH821M35060□VA
	1000	35×60	0.18	2.85	HFH102M35060□VA
	1000	35×65	0.18	2.90	HFH102M35065□VA
	1000	40×55	0.18	2.90	HFH102M40055□VA
	1200	35×75	0.18	3.60	HFH122M35075□VA
	1200	40×65	0.18	3.66	HFH122M40065□VA
	1500	40×80	0.18	4.36	HFH152M40080□VA
	1500	45×65	0.18	4.22	HFH152M45065□VA
	1800	40×95	0.18	5.12	HFH182M40095□VA
	1800	45×75	0.18	4.92	HFH182M45075□VA
	2200	45×90	0.18	5.80	HFH222M45090□VA
2200	50×75	0.18	5.60	HFH222M50075□VA	
2700	45×100	0.18	6.53	HFH272M45100□VA	
2700	50×90	0.18	6.61	HFH272M50090□VA	
3300	50×105	0.18	7.70	HFH332M50105□VA	
400 (450)	47	22×25	0.18	0.40	HFG470M22025□VA
	56	22×25	0.18	0.51	HFG560M22025□VA
	68	22×25	0.18	0.55	HFG680M22025□VA
	82	22×30	0.18	0.64	HFG820M22030□VA
	82	25×25	0.18	0.64	HFG820M25025□VA
	100	22×30	0.18	0.70	HFG101M22030□VA
	100	25×25	0.18	0.70	HFG101M25025□VA
	120	22×35	0.18	0.75	HFG121M22035□VA
	120	25×30	0.18	0.75	HFG121M25030□VA
	120	30×25	0.18	0.75	HFG121M30025□VA
	150	22×40	0.18	0.83	HFG151M22040□VA
	150	25×35	0.18	0.83	HFG151M25035□VA
	150	30×25	0.18	0.83	HFG151M30025□VA
	180	22×50	0.18	0.96	HFG181M22050□VA
	180	25×40	0.18	0.98	HFG181M25040□VA
	180	30×30	0.18	0.98	HFG181M30030□VA
	180	35×25	0.18	0.98	HFG181M35025□VA
	220	25×45	0.18	1.06	HFG221M25045□VA
	220	30×35	0.18	1.04	HFG221M30035□VA
	270	25×50	0.18	1.29	HFG271M25050□VA
	270	30×40	0.18	1.22	HFG271M30040□VA
	330	30×45	0.18	1.55	HFG331M30045□VA
	330	35×35	0.18	1.55	HFG331M35035□VA
	390	30×50	0.18	1.60	HFG391M30050□VA

WV <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	$\tan\delta$ 20°C 120Hz	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number	
400 (450)	390	35×40	0.18	1.60	HFG391M35040□VA	
	470	30×60	0.18	1.90	HFG471M30060□VA	
	470	35×45	0.18	1.90	HFG471M35045□VA	
	560	35×50	0.18	2.12	HFG561M35050□VA	
	680	35×60	0.18	2.30	HFG681M35060□VA	
	820	35×65	0.18	2.70	HFG821M35065□VA	
	1000	35×70	0.18	3.00	HFG102M35070□VA	
	1000	40×65	0.18	3.20	HFG102M40065□VA	
	1200	35×90	0.18	3.80	HFG122M35090□VA	
	1200	40×80	0.18	3.90	HFG122M40080□VA	
	1200	45×60	0.18	3.70	HFG122M45060□VA	
	1500	40×90	0.18	4.20	HFG152M40090□VA	
	1500	45×75	0.18	4.40	HFG152M45075□VA	
	1500	50×70	0.18	4.70	HFG152M50070□VA	
	1800	45×90	0.18	5.40	HFG182M45090□VA	
	1800	50×80	0.18	5.40	HFG182M50080□VA	
	2200	50×90	0.18	6.20	HFG222M50090□VA	
	2700	50×105	0.18	7.00	HFG272M50105□VA	
	450 (500)	47	22×25	0.20	0.38	HFE470M22025□VA
		56	22×25	0.20	0.47	HFE560M22025□VA
68		22×30	0.20	0.56	HFE680M22030□VA	
68		25×25	0.20	0.56	HFE680M25025□VA	
82		22×35	0.20	0.64	HFE820M22035□VA	
82		25×30	0.20	0.64	HFE820M25030□VA	
100		22×40	0.20	0.70	HFE101M22040□VA	
100		25×30	0.20	0.70	HFE101M25030□VA	
100		30×25	0.20	0.78	HFE101M30025□VA	
120		22×45	0.20	0.73	HFE121M22045□VA	
120		25×35	0.20	0.73	HFE121M25035□VA	
120		30×30	0.20	0.73	HFE121M30030□VA	
150		22×50	0.20	0.78	HFE151M22050□VA	
150		25×40	0.20	0.82	HFE151M25040□VA	
150		30×30	0.20	0.83	HFE151M30030□VA	
150		35×25	0.20	0.86	HFE151M35025□VA	
180		25×45	0.20	0.88	HFE181M25045□VA	
180		30×35	0.20	0.88	HFE181M30035□VA	
180		35×30	0.20	0.88	HFE181M35030□VA	
220		25×50	0.20	0.94	HFE221M25050□VA	
220		30×40	0.20	0.96	HFE221M30040□VA	
220		35×30	0.20	0.92	HFE221M35030□VA	
270		30×45	0.20	1.20	HFE271M30045□VA	
270		35×35	0.20	1.18	HFE271M35035□VA	
330	30×50	0.20	1.40	HFE331M30050□VA		
330	35×40	0.20	1.39	HFE331M35040□VA		
390	30×55	0.20	1.58	HFE391M30055□VA		
390	35×45	0.20	1.58	HFE391M35045□VA		
470	35×50	0.20	1.83	HFE471M35050□VA		
560	35×60	0.20	2.10	HFE561M35060□VA		
680	35×65	0.20	2.40	HFE681M35065□VA		
680	40×60	0.20	2.50	HFE681M40060□VA		
820	35×75	0.20	2.88	HFE821M35075□VA		
820	40×65	0.20	2.90	HFE821M40065□VA		
1000	35×90	0.20	3.46	HFE102M35090□VA		
1000	40×80	0.20	3.54	HFE102M40080□VA		
1200	40×95	0.20	4.40	HFE122M40095□VA		
1200	45×75	0.20	4.10	HFE122M45075□VA		
1200	50×65	0.20	4.10	HFE122M50065□VA		
1500	40×100	0.20	4.80	HFE152M40100□VA		

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# HF 系列 SERIES

## ◆ 产品一览表 Standard Ratings

WV <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	tan $\delta$ 20°C 120Hz	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
450 (500)	1500	45×90	0.20	4.90	HFE152M45090□VA
	1500	50×80	0.20	5.00	HFE152M50080□VA
	1800	50×95	0.20	5.60	HFE182M50095□VA
	2200	50×110	0.20	6.50	HFE222M50110□VA
500 (550)	39	22×30	0.20	0.35	HFC390M22030□VA
	47	22×35	0.20	0.42	HFC470M22035□VA
	56	22×40	0.20	0.47	HFC560M22040□VA
	68	22×45	0.20	0.54	HFC680M22045□VA
	68	25×30	0.20	0.54	HFC680M25030□VA
	82	22×50	0.20	0.62	HFC820M22050□VA
	82	25×40	0.20	0.62	HFC820M25040□VA
	100	25×45	0.20	0.67	HFC101M25045□VA
	100	30×30	0.20	0.62	HFC101M30030□VA
	120	25×50	0.20	0.77	HFC121M25050□VA
	120	30×35	0.20	0.72	HFC121M30035□VA
	120	35×30	0.20	0.72	HFC121M35030□VA
	150	30×40	0.20	0.85	HFC151M30040□VA
	150	35×35	0.20	0.85	HFC151M35035□VA
	180	30×45	0.20	0.93	HFC181M30045□VA
	180	35×40	0.20	0.93	HFC181M35040□VA
	220	30×50	0.20	1.12	HFC221M30050□VA
	220	35×45	0.20	1.12	HFC221M35045□VA
	270	30×55	0.20	1.29	HFC271M30055□VA
	270	35×50	0.20	1.29	HFC271M35050□VA
	330	35×60	0.20	1.62	HFC331M35060□VA
	470	35×60	0.20	2.00	HFC471M35060□VA
	560	35×65	0.20	2.20	HFC561M35065□VA
	560	40×55	0.20	2.20	HFC561M40055□VA
	680	35×75	0.20	2.60	HFC681M35075□VA
	680	40×70	0.20	2.70	HFC681M40070□VA
	820	40×75	0.20	3.10	HFC821M40075□VA
	820	45×60	0.20	3.00	HFC821M45060□VA

WV <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	tan $\delta$ 20°C 120Hz	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
500 (550)	1000	40×90	0.20	3.70	HFC102M40090□VA
	1000	45×75	0.20	3.60	HFC102M45075□VA
	1200	40×100	0.20	4.20	HFC122M40100□VA
	1200	45×85	0.20	4.10	HFC122M45085□VA
	1200	50×80	0.20	4.30	HFC122M50080□VA
	1500	45×100	0.20	4.80	HFC152M45100□VA
	1500	50×90	0.20	4.90	HFC152M50090□VA
	1800	50×105	0.20	5.60	HFC182M50105□VA
550 (600)	180	30×50	0.20	1.00	HFZ181M30050□VA
	220	30×60	0.20	1.20	HFZ221M30060□VA
	270	35×50	0.20	1.30	HFZ271M35050□VA
	330	35×60	0.20	1.50	HFZ331M35060□VA
	390	35×70	0.20	1.80	HFZ391M35070□VA
	390	40×60	0.20	1.80	HFZ391M40060□VA
	470	35×80	0.20	2.10	HFZ471M35080□VA
	470	40×70	0.20	2.10	HFZ471M40070□VA
	560	35×90	0.20	2.40	HFZ561M35090□VA
	560	40×80	0.20	2.40	HFZ561M40080□VA
	680	40×90	0.20	2.80	HFZ681M40090□VA
	680	45×70	0.20	2.70	HFZ681M45070□VA
	820	45×85	0.20	3.20	HFZ821M45085□VA
	820	50×70	0.20	3.10	HFZ821M50070□VA
	1000	45×100	0.20	3.80	HFZ102M45100□VA
	1000	50×80	0.20	3.60	HFZ102M50080□VA
1200	50×90	0.20	4.20	HFZ122M50090□VA	
600 (650)	180	35×45	0.20	0.92	HFB181M35045□VA
	220	35×50	0.20	1.08	HFB221M35050□VA
	270	35×60	0.20	1.30	HFB271M35060□VA
	330	35×70	0.20	1.50	HFB331M35070□VA
	470	35×80	0.20	1.92	HFB471M35080□VA
	560	40×100	0.20	2.44	HFB561M40100□VA

\*产品编码中□内为产品端子引出型式代码

\*□Enter the appropriate terminal code

\*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.

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[ESMG160ETD101ME11D](#) [ELXY100ETD102MJ20S](#) [EGXF500ELL561ML15S](#) [EKMG350ETD471MJ16S](#) [35YXA330MEFC10X12.5](#)  
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