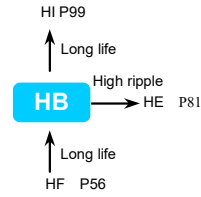


# HB 系列 SERIES



- 保证 105℃、3000 小时寿命。(叠加纹波电流)  
Endurance with ripple current: 3000 hours at 105℃
- 额定工作电压范围: 16V~550V  
Rated voltage range: 16V-550V
- 适合转换太阳能光伏、电源及通用变频器等平滑用。  
Ideal for the solar energy, switching power and inverter smoothing capacitors.



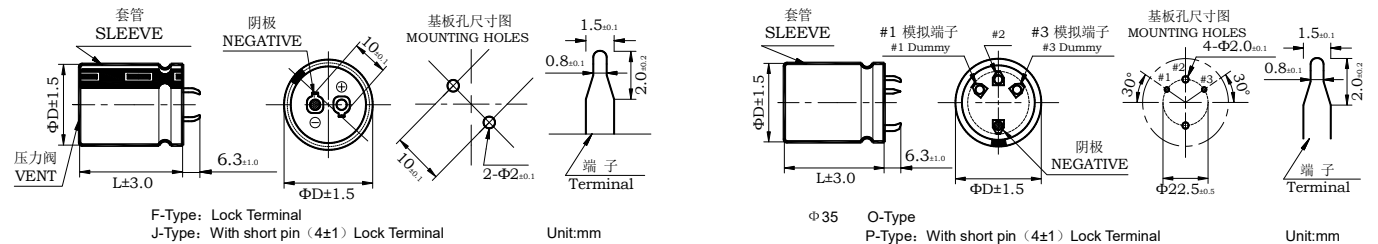
## ◆ 规格表 SPECIFICATIONS

项目 Items	特性 Characteristics																															
工作温度范围 Operating Temperature Range	-40~+105℃	-25~+105℃																														
额定工作电压范围 Rated Working Voltage Range	16~100V	160~550V																														
静电容量允许偏差 Capacitance Tolerance	±20% (20℃, 120Hz)																															
损耗角正切值 Dissipation Factor (MAX) 20℃, 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>160~250</td> <td>350~400</td> <td>450~550</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	160~250	350~400	450~550	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	160~250	350~400	450~550																						
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>350~400</td> <td>450~550</td> </tr> <tr> <td>Z<sub>25℃/Z+20℃</sub></td> <td>4</td> <td>3</td> <td>4</td> <td>7</td> <td>8</td> </tr> <tr> <td>Z<sub>40℃/Z+20℃</sub></td> <td>18</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										U <sub>R</sub> (V)	16~100	160~200	250	350~400	450~550	Z <sub>25℃/Z+20℃</sub>	4	3	4	7	8	Z <sub>40℃/Z+20℃</sub>	18								
U <sub>R</sub> (V)	16~100	160~200	250	350~400	450~550																											
Z <sub>25℃/Z+20℃</sub>	4	3	4	7	8																											
Z <sub>40℃/Z+20℃</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℃, 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℃, 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	5000h	>180000h	3000h	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℃ ≤1% Failure rate	U <sub>R</sub> 1.4×I <sub>R</sub> 40℃ ≤1% Failure rate	U <sub>R</sub> I <sub>R</sub> 105℃ 0%	U <sub>R</sub> I <sub>R</sub> 105℃ 0%
				Back up to 20℃ and placed more than 24 hours. U <sub>R</sub> to be applied for 60 min before measurement.

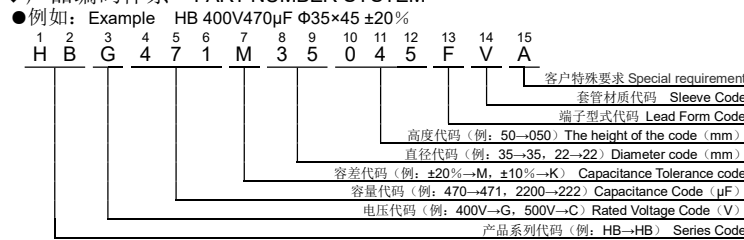
## ◆ 尺寸图 Dimensions

● 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

● 频率修正系数 Frequency coefficient

电压范围 (V) Rated voltage	频率 (Hz) Frequency				
	50 (60)	100 (120)	300	1k	≥10k
16~50VV	0.90	1.00	1.10	1.15	1.15
63~100VV	0.85	1.00	1.17	1.32	1.45
160~550VV	0.80	1.00	1.16	1.30	1.41

● 温度修正系数 Temperature coefficient

电压范围 (V) Rated voltage	温度 (℃) Temperature				
	+40	+55	+70	+85	+105
16~550VV	2.7	2.5	2.1	1.7	1.0

# HB 系列 SERIES

## ◆ 产品一览表 Standard Ratings

WV <sub>DC</sub> (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20°C 120Hz	ESR <sub>typ</sub> 20°C 120Hz (mΩ)	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
16 (20)	6800	22×25	0.50	68	1.61	HBV682M22025□VA
	8200	25×25	0.50	60	1.83	HBV822M25025□VA
	10000	22×30	0.50	46	2.00	HBV103M22030□VA
	10000	25×25	0.50	46	2.00	HBV103M25025□VA
	12000	22×35	0.50	39	2.28	HBV123M22035□VA
	12000	25×30	0.50	39	2.30	HBV123M25030□VA
	12000	30×25	0.50	39	2.38	HBV123M30025□VA
	15000	22×40	0.50	31	2.64	HBV153M22040□VA
	15000	25×30	0.50	31	2.51	HBV153M25030□VA
	18000	22×45	0.50	26	2.98	HBV183M22045□VA
	18000	25×35	0.50	26	3.00	HBV183M25035□VA
	18000	30×30	0.50	26	3.00	HBV183M30030□VA
	18000	35×25	0.50	26	3.10	HBV183M35025□VA
	22000	25×40	0.50	21	3.23	HBV223M25040□VA
	22000	30×35	0.50	21	3.39	HBV223M30035□VA
	27000	25×50	0.50	17	3.81	HBV273M25050□VA
	27000	30×40	0.50	17	3.84	HBV273M30040□VA
	27000	35×30	0.50	17	3.74	HBV273M35030□VA
	33000	30×45	0.50	14	4.30	HBV333M30045□VA
	33000	35×35	0.50	14	4.24	HBV333M35035□VA
39000	30×50	0.50	12	4.74	HBV393M30050□VA	
39000	35×35	0.50	12	4.70	HBV393M35035□VA	
47000	35×40	0.50	10	5.27	HBV473M35040□VA	
56000	30×60	0.50	8.8	5.80	HBV563M30060□VA	
56000	35×45	0.50	8.8	5.60	HBV563M35045□VA	
68000	35×55	0.50	7.8	6.20	HBV683M35055□VA	
82000	35×60	0.50	6.8	6.50	HBV823M35060□VA	
25 (32)	4700	22×25	0.45	79	1.55	HBU472M22025□VA
	5600	25×25	0.45	66	1.75	HBU562M25025□VA
	6800	22×30	0.45	55	1.91	HBU682M22030□VA
	6800	25×25	0.45	55	1.91	HBU682M25025□VA
	8200	22×35	0.45	45	2.14	HBU822M22035□VA
	8200	25×30	0.45	45	2.16	HBU822M25030□VA
	8200	30×25	0.45	45	2.24	HBU822M30025□VA
	10000	22×40	0.45	37	2.40	HBU103M22040□VA
	10000	25×35	0.45	37	2.44	HBU103M25035□VA
	12000	22×45	0.45	31	2.69	HBU123M22045□VA
	12000	25×40	0.45	31	2.74	HBU123M25040□VA
	12000	30×30	0.45	31	2.70	HBU123M30030□VA
	12000	35×25	0.45	31	2.80	HBU123M35025□VA
	15000	25×45	0.45	25	3.15	HBU153M25045□VA
	15000	30×35	0.45	25	3.13	HBU153M30035□VA
	15000	35×30	0.45	25	3.20	HBU153M35030□VA
	18000	25×50	0.45	21	3.54	HBU183M25050□VA
	18000	30×40	0.45	21	3.58	HBU183M30040□VA
	18000	35×30	0.45	21	3.55	HBU183M35030□VA
	22000	30×45	0.45	17	4.24	HBU223M30045□VA
22000	35×35	0.45	17	4.00	HBU223M35035□VA	
27000	30×50	0.45	14	4.75	HBU273M30050□VA	
27000	35×45	0.45	14	4.70	HBU273M35045□VA	
33000	35×50	0.45	11	5.39	HBU333M35050□VA	
35 (44)	3300	22×25	0.40	100	1.41	HBT332M22025□VA
	3900	22×30	0.40	83	1.65	HBT392M22030□VA
	4700	25×25	0.40	69	1.83	HBT472M25025□VA
	5600	22×35	0.40	58	2.03	HBT562M22035□VA
	5600	25×30	0.40	58	2.05	HBT562M25030□VA
	5600	30×25	0.40	58	2.13	HBT562M30025□VA
	6800	22×40	0.40	48	2.29	HBT682M22040□VA

WV <sub>DC</sub> (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20°C 120Hz	ESR <sub>typ</sub> 20°C 120Hz (mΩ)	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number	
35 (44)	6800	25×35	0.40	48	2.32	HBT682M25035□VA	
	8200	22×45	0.40	40	2.57	HBT822M22045□VA	
	8200	25×40	0.40	40	2.62	HBT822M25040□VA	
	8200	30×30	0.40	40	2.60	HBT822M30030□VA	
	8200	35×25	0.40	40	2.65	HBT822M35025□VA	
	10000	25×45	0.40	33	2.92	HBT103M25045□VA	
	10000	30×35	0.40	33	2.95	HBT103M30035□VA	
	12000	25×50	0.40	27	3.26	HBT123M25050□VA	
	12000	30×40	0.40	27	3.28	HBT123M30040□VA	
	12000	35×30	0.40	27	3.22	HBT123M35030□VA	
	15000	30×45	0.40	22	3.74	HBT153M30045□VA	
	15000	35×35	0.40	22	3.70	HBT153M35035□VA	
	18000	35×40	0.40	18	4.20	HBT183M35040□VA	
	22000	35×50	0.40	15	4.92	HBT223M35050□VA	
	27000	35×55	0.40	13	5.50	HBT273M35055□VA	
	50 (63)	1800	22×25	0.35	155	1.32	HBR182M22025□VA
		2200	22×30	0.35	127	1.45	HBR222M22030□VA
		2700	22×30	0.35	103	1.70	HBR272M22030□VA
		2700	25×25	0.35	103	1.72	HBR272M25025□VA
		3300	22×35	0.35	84	1.99	HBR332M22035□VA
3300		25×30	0.35	84	2.01	HBR332M25030□VA	
3900		22×40	0.35	72	2.25	HBR392M22040□VA	
3900		25×35	0.35	72	2.28	HBR392M25035□VA	
3900		30×25	0.35	72	2.22	HBR392M30025□VA	
4700		22×45	0.35	59	2.56	HBR472M22045□VA	
4700		30×30	0.35	59	2.60	HBR472M30030□VA	
4700		35×25	0.35	59	2.58	HBR472M35025□VA	
5600		22×50	0.35	50	2.90	HBR562M22050□VA	
5600		25×40	0.35	50	2.82	HBR562M25040□VA	
5600		30×35	0.35	50	2.95	HBR562M30035□VA	
6800		25×50	0.35	41	3.38	HBR682M25050□VA	
6800		30×40	0.35	41	3.40	HBR682M30040□VA	
6800		35×30	0.35	41	3.32	HBR682M35030□VA	
8200		30×45	0.35	34	3.72	HBR822M30045□VA	
8200		35×35	0.35	34	3.67	HBR822M35035□VA	
10000	30×50	0.35	28	4.10	HBR103M30050□VA		
10000	35×40	0.35	28	4.08	HBR103M35040□VA		
12000	35×45	0.35	23	4.52	HBR123M35045□VA		
15000	35×50	0.35	19	4.80	HBR153M35050□VA		
18000	35×60	0.35	16	5.10	HBR183M35060□VA		
50 (63)	1200	22×25	0.30	155	1.26	HBQ122M22025□VA	
	1500	22×25	0.30	124	1.45	HBQ152M22025□VA	
	1800	22×30	0.30	103	1.53	HBQ182M22030□VA	
	1800	25×25	0.30	103	1.53	HBQ182M25025□VA	
	2200	22×35	0.30	84	1.73	HBQ222M22035□VA	
	2200	25×30	0.30	84	1.75	HBQ222M25030□VA	
	2700	22×40	0.30	69	1.98	HBQ272M22040□VA	
	2700	25×35	0.30	69	2.00	HBQ272M25035□VA	
	2700	30×25	0.30	69	1.95	HBQ272M30025□VA	
	3300	22×45	0.30	56	2.30	HBQ332M22045□VA	
	3300	25×40	0.30	56	2.28	HBQ332M25040□VA	
	3300	30×30	0.30	56	2.25	HBQ332M30030□VA	
	3300	35×25	0.30	56	2.42	HBQ332M35025□VA	
	3900	25×45	0.30	48	2.55	HBQ392M25045□VA	
	3900	30×35	0.30	48	2.56	HBQ392M30035□VA	
	4700	25×50	0.30	40	2.89	HBQ472M25050□VA	
	4700	30×35	0.30	40	2.86	HBQ472M30035□VA	
	4700	35×30	0.30	40	2.84	HBQ472M35030□VA	

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

# HB 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	ESR <sub>typ</sub> 20°C 120Hz (m $\Omega$ )	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
63 (79)	5600	30×40	0.30	33	3.26	HBQ562M30040□VA
	5600	35×35	0.30	33	3.24	HBQ562M35035□VA
	6800	30×50	0.30	27	3.74	HBQ682M30050□VA
	6800	35×40	0.30	27	3.70	HBQ682M35040□VA
	8200	35×45	0.30	23	4.10	HBQ822M35045□VA
	10000	35×50	0.30	19	4.60	HBQ103M35050□VA
12000	35×55	0.30	16	4.90	HBQ123M35055□VA	
80 (100)	820	22×25	0.25	227	1.14	HBP821M22025□VA
	1000	22×25	0.25	186	1.26	HBP102M22025□VA
	1200	22×30	0.25	155	1.40	HBP122M22030□VA
	1200	25×25	0.25	155	1.40	HBP122M25025□VA
	1500	22×35	0.25	124	1.59	HBP152M22035□VA
	1500	25×30	0.25	124	1.59	HBP152M25030□VA
	1800	22×40	0.25	103	1.79	HBP182M22040□VA
	1800	30×25	0.25	103	1.79	HBP182M30025□VA
	2200	22×45	0.25	84	2.09	HBP222M22045□VA
	2200	25×35	0.25	84	2.01	HBP222M25035□VA
	2200	30×30	0.25	84	2.10	HBP222M30030□VA
	2200	35×25	0.25	84	2.17	HBP222M35025□VA
	2700	25×40	0.25	69	2.43	HBP272M25040□VA
	2700	30×30	0.25	69	2.43	HBP272M30030□VA
	3300	25×50	0.25	56	2.76	HBP332M25050□VA
	3300	30×35	0.25	56	2.63	HBP332M30035□VA
	3300	35×30	0.25	56	2.71	HBP332M35030□VA
	3900	30×40	0.25	48	3.04	HBP392M30040□VA
	3900	35×30	0.25	48	2.97	HBP392M35030□VA
	4700	30×45	0.25	40	3.25	HBP472M30045□VA
4700	35×40	0.25	40	3.38	HBP472M35040□VA	
5600	35×45	0.25	33	3.80	HBP562M35045□VA	
6800	35×50	0.25	27	4.00	HBP682M35050□VA	
8200	35×55	0.25	23	4.20	HBP822M35055□VA	
10000	35×60	0.25	19	4.48	HBP103M35060□VA	
100 (125)	560	22×25	0.20	332	0.95	HBO561M22025□VA
	680	22×30	0.20	273	1.15	HBO681M22030□VA
	820	22×30	0.20	227	1.32	HBO821M22030□VA
	820	25×25	0.20	227	1.32	HBO821M25025□VA
	1000	22×35	0.20	186	1.47	HBO102M22035□VA
	1000	25×30	0.20	186	1.47	HBO102M25030□VA
	1200	22×40	0.20	155	1.69	HBO122M22040□VA
	1200	25×35	0.20	155	1.71	HBO122M25035□VA
	1200	30×25	0.20	155	1.67	HBO122M30025□VA
	1500	22×45	0.20	124	1.97	HBO152M22045□VA
	1500	25×40	0.20	124	2.01	HBO152M25040□VA
	1500	30×30	0.20	124	1.98	HBO152M30030□VA
	1500	35×25	0.20	124	2.03	HBO152M35025□VA
	1800	25×45	0.20	103	2.20	HBO182M25045□VA
	1800	30×35	0.20	103	2.20	HBO182M30035□VA
	1800	35×25	0.20	103	2.11	HBO182M35025□VA
	2200	25×50	0.20	84	2.53	HBO222M25050□VA
	2200	30×40	0.20	84	2.55	HBO222M30040□VA
	2200	35×30	0.20	84	2.48	HBO222M35030□VA
	2700	30×45	0.20	69	2.86	HBO272M30045□VA
2700	35×35	0.20	69	2.82	HBO272M35035□VA	
3300	30×50	0.20	56	3.30	HBO332M30050□VA	
3300	35×40	0.20	56	3.28	HBO332M35040□VA	
3900	35×45	0.20	48	3.67	HBO392M35045□VA	
4700	35×50	0.20	40	3.90	HBO472M35050□VA	
5600	35×60	0.20	33	4.25	HBO562M35060□VA	

WV <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	tan $\delta$ 20°C 120Hz	ESR <sub>typ</sub> 20°C 120Hz (m $\Omega$ )	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
160 (200)	330	22×25	0.15	402	1.16	HBN331M22025□VA
	390	22×30	0.15	353	1.30	HBN391M22030□VA
	470	22×35	0.15	294	1.55	HBN471M22035□VA
	470	25×25	0.15	294	1.55	HBN471M25025□VA
	560	22×40	0.15	245	1.67	HBN561M22040□VA
	560	25×30	0.15	245	1.67	HBN561M25030□VA
	680	22×45	0.15	202	1.82	HBN681M22045□VA
	680	25×35	0.15	202	1.75	HBN681M25035□VA
	680	30×25	0.15	202	1.70	HBN681M30025□VA
	820	22×50	0.15	168	2.04	HBN821M22050□VA
	820	25×40	0.15	168	1.97	HBN821M25040□VA
	820	30×30	0.15	168	2.01	HBN821M30030□VA
	820	35×25	0.15	168	2.04	HBN821M35025□VA
	1000	25×45	0.15	136	2.20	HBN102M25045□VA
	1000	30×35	0.15	136	2.25	HBN102M30035□VA
	1200	25×50	0.15	112	2.42	HBN122M25050□VA
	1200	30×40	0.15	112	2.44	HBN122M30040□VA
	1200	35×30	0.15	112	2.38	HBN122M35030□VA
	1500	30×45	0.15	92	2.80	HBN152M30045□VA
	1500	35×35	0.15	92	2.76	HBN152M35035□VA
1800	35×45	0.15	75	3.12	HBN182M35045□VA	
2200	35×50	0.15	62	3.36	HBN222M35050□VA	
2700	35×55	0.15	49	3.68	HBN272M35055□VA	
200 (250)	220	22×25	0.15	603	1.00	HBL221M22025□VA
	330	22×30	0.15	402	1.25	HBL331M22030□VA
	330	25×25	0.15	402	1.25	HBL331M25025□VA
	390	22×35	0.15	353	1.35	HBL391M22035□VA
	470	22×35	0.15	294	1.40	HBL471M22035□VA
	470	25×30	0.15	294	1.41	HBL471M25030□VA
	470	30×25	0.15	294	1.46	HBL471M30025□VA
	560	22×45	0.15	245	1.58	HBL561M22045□VA
	560	25×35	0.15	245	1.52	HBL561M25035□VA
	680	22×45	0.15	202	1.77	HBL681M22045□VA
	680	25×40	0.15	202	1.80	HBL681M25040□VA
	680	30×30	0.15	202	1.78	HBL681M30030□VA
	680	35×25	0.15	202	1.82	HBL681M35025□VA
	820	25×45	0.15	168	2.00	HBL821M25045□VA
	820	30×35	0.15	168	2.00	HBL821M30035□VA
	820	35×30	0.15	168	2.06	HBL821M35030□VA
	1000	30×45	0.15	136	2.30	HBL102M30045□VA
	1000	35×35	0.15	136	2.27	HBL102M35035□VA
	1200	30×50	0.15	112	2.48	HBL122M30050□VA
	1200	35×40	0.15	112	2.47	HBL122M35040□VA
1500	35×45	0.15	92	2.78	HBL152M35045□VA	
1800	35×50	0.15	75	3.00	HBL182M35050□VA	
2200	35×50	0.15	62	3.10	HBL222M35050□VA	
250 (300)	180	22×25	0.15	737	0.90	HBJ181M22025□VA
	220	22×30	0.15	603	1.00	HBJ221M22030□VA
	220	25×25	0.15	603	1.00	HBJ221M25025□VA
	270	22×35	0.15	491	1.18	HBJ271M22035□VA
	330	22×40	0.15	402	1.37	HBJ331M22040□VA
	330	25×30	0.15	402	1.30	HBJ331M25030□VA
	330	30×25	0.15	402	1.35	HBJ331M30025□VA
	390	22×45	0.15	353	1.45	HBJ391M22045□VA
	390	25×35	0.15	353	1.40	HBJ391M25035□VA
	470	22×50	0.15	294	1.62	HBJ471M22050□VA
	470	25×40	0.15	294	1.58	HBJ471M25040□VA
	470	30×30	0.15	294	1.56	HBJ471M30030□VA

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# HB 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	ESR <sub>typ</sub> 20°C 120Hz (m $\Omega$ )	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
250 (300)	470	35×25	0.15	294	1.60	HBJ471M35025□VA
	560	25×45	0.15	245	1.68	HBJ561M25045□VA
	560	30×35	0.15	245	1.68	HBJ561M30035□VA
	560	35×30	0.15	245	1.73	HBJ561M35030□VA
	680	25×50	0.15	202	1.78	HBJ681M25050□VA
	680	30×40	0.15	202	1.79	HBJ681M30040□VA
	820	30×45	0.15	168	1.91	HBJ821M30045□VA
	820	35×35	0.15	168	1.90	HBJ821M35035□VA
	1000	30×50	0.15	136	2.06	HBJ102M30050□VA
	1000	35×40	0.15	136	2.06	HBJ102M35040□VA
	1200	35×45	0.15	112	2.20	HBJ122M35045□VA
	350 (400)	68	22×25	0.15	1600	0.47
100		22×30	0.15	1088	0.60	HBH101M22030□VA
100		25×25	0.15	1088	0.60	HBH101M25025□VA
120		22×35	0.15	907	0.70	HBH121M22035□VA
150		22×40	0.15	725	0.82	HBH151M22040□VA
150		25×30	0.15	725	0.78	HBH151M25030□VA
150		30×25	0.15	725	0.81	HBH151M30025□VA
180		22×45	0.15	605	0.90	HBH181M22045□VA
180		25×35	0.15	605	0.87	HBH181M25035□VA
180		30×25	0.15	605	0.84	HBH181M30025□VA
220		22×50	0.15	495	0.98	HBH221M22050□VA
220		25×40	0.15	495	0.97	HBH221M25040□VA
220		35×25	0.15	495	0.97	HBH221M35025□VA
270		25×45	0.15	403	1.14	HBH271M25045□VA
270		30×35	0.15	403	1.14	HBH271M30035□VA
270		35×30	0.15	403	1.17	HBH271M35030□VA
330		30×40	0.15	331	1.29	HBH331M30040□VA
330		35×30	0.15	331	1.26	HBH331M35030□VA
390		30×45	0.15	279	1.47	HBH391M30045□VA
390		35×35	0.15	279	1.45	HBH391M35035□VA
470		30×50	0.15	232	1.68	HBH471M30050□VA
470		35×40	0.15	232	1.67	HBH471M35040□VA
560		30×60	0.15	194	1.98	HBH561M30060□VA
560		35×45	0.15	194	1.91	HBH561M35045□VA
680		35×50	0.15	160	2.11	HBH681M35050□VA
820		35×55	0.15	133	2.47	HBH821M35055□VA
1000		35×60	0.15	109	2.85	HBH102M35060□VA
1000	40×50	0.15	109	2.85	HBH102M40050□VA	
1200	35×70	0.15	94	3.29	HBH122M35070□VA	
1200	40×60	0.15	94	3.32	HBH122M40060□VA	
1500	40×80	0.15	75	3.76	HBH152M40080□VA	
1500	45×65	0.15	75	3.67	HBH152M45065□VA	
1800	40×95	0.15	63	4.22	HBH182M40095□VA	
1800	45×75	0.15	63	4.06	HBH182M45075□VA	
2200	45×90	0.15	54	4.70	HBH222M45090□VA	
2200	50×75	0.15	54	4.61	HBH222M50075□VA	
2700	45×100	0.15	44	5.12	HBH272M45100□VA	
2700	50×90	0.15	44	5.18	HBH272M50090□VA	
3300	50×105	0.15	38	5.70	HBH332M50105□VA	
400 (450)	68	22×25	0.15	1522	0.55	HBE680M22025□VA
	82	22×30	0.15	1262	0.64	HBE820M22030□VA
	82	25×25	0.15	1262	0.64	HBE820M25025□VA
	100	22×30	0.15	1035	0.70	HBE101M22030□VA
	100	25×25	0.15	1035	0.70	HBE101M25025□VA
	120	22×35	0.15	863	0.76	HBE121M22035□VA
	120	25×30	0.15	863	0.77	HBE121M25030□VA
	120	30×25	0.15	863	0.80	HBE121M30025□VA

WV <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	tan $\delta$ 20°C 120Hz	ESR <sub>typ</sub> 20°C 120Hz (m $\Omega$ )	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number	
400 (450)	150	22×40	0.15	690	0.83	HBG151M22040□VA	
	150	25×35	0.15	690	0.84	HBG151M25035□VA	
	150	30×25	0.15	690	0.82	HBG151M30025□VA	
	180	22×45	0.15	575	0.92	HBG181M22045□VA	
	180	25×40	0.15	575	0.93	HBG181M25040□VA	
	180	30×30	0.15	575	0.92	HBG181M30030□VA	
	180	35×25	0.15	575	0.94	HBG181M35025□VA	
	220	25×40	0.15	471	0.99	HBG221M25040□VA	
	220	30×30	0.15	471	0.98	HBG221M30030□VA	
	270	25×45	0.15	383	1.14	HBG271M25045□VA	
	270	30×35	0.15	383	1.14	HBG271M30035□VA	
	330	30×40	0.15	314	1.38	HBG331M30040□VA	
	330	35×30	0.15	314	1.35	HBG331M35030□VA	
	390	30×45	0.15	265	1.53	HBG391M30045□VA	
	390	35×35	0.15	265	1.51	HBG391M35035□VA	
	470	30×50	0.15	220	1.82	HBG471M30050□VA	
	470	35×45	0.15	220	1.90	HBG471M35045□VA	
	560	35×50	0.15	185	2.12	HBG561M35050□VA	
	680	35×50	0.15	153	2.30	HBG681M35050□VA	
	820	35×60	0.15	126	2.61	HBG821M35060□VA	
	1000	35×70	0.15	106	3.00	HBG102M35070□VA	
	1000	40×60	0.15	106	3.02	HBG102M40060□VA	
	1200	35×80	0.15	89	3.40	HBG122M35080□VA	
	1200	40×70	0.15	89	3.45	HBG122M40070□VA	
	1500	40×80	0.15	71	3.90	HBG152M40080□VA	
	1500	45×70	0.15	71	3.93	HBG152M45070□VA	
	1800	45×90	0.15	59	4.50	HBG182M45090□VA	
	1800	50×80	0.15	59	4.53	HBG182M50080□VA	
	2200	50×90	0.15	48	4.90	HBG222M50090□VA	
	2700	50×105	0.15	39	5.60	HBG272M50105□VA	
	450 (500)	56	22×25	0.20	2322	0.47	HBE560M22025□VA
		68	22×30	0.20	1912	0.56	HBE680M22030□VA
		68	25×25	0.20	1912	0.56	HBE680M25025□VA
82		22×30	0.20	1586	0.64	HBE820M22030□VA	
82		25×25	0.20	1586	0.64	HBE820M25025□VA	
100		22×35	0.20	1300	0.70	HBE101M22035□VA	
100		25×30	0.20	1300	0.68	HBE101M25030□VA	
100		30×25	0.20	1300	0.70	HBE101M30025□VA	
120		22×40	0.20	1083	0.80	HBE121M22040□VA	
120		25×30	0.20	1083	0.77	HBE121M25035□VA	
150		22×45	0.20	867	0.88	HBE151M22045□VA	
150		25×35	0.20	867	0.85	HBE151M25035□VA	
150		30×30	0.20	867	0.89	HBE151M30030□VA	
180		25×40	0.20	723	0.95	HBE181M25040□VA	
180		30×30	0.20	723	0.95	HBE181M30030□VA	
180		35×25	0.20	723	0.95	HBE181M35025□VA	
220		25×45	0.20	591	1.07	HBE221M25045□VA	
220		30×30	0.20	591	1.00	HBE221M30030□VA	
270		30×40	0.20	482	1.20	HBE271M30040□VA	
270		35×30	0.20	482	1.17	HBE271M35030□VA	
330		30×45	0.20	394	1.32	HBE331M30045□VA	
330		35×35	0.20	394	1.30	HBE331M35035□VA	
390		30×50	0.20	333	1.43	HBE391M30050□VA	
390		35×40	0.20	333	1.42	HBE391M35040□VA	
470		35×40	0.20	277	1.50	HBE471M35040□VA	
470		35×45	0.20	277	1.58	HBE471M35045□VA	
560		35×45	0.20	232	1.73	HBE561M35045□VA	
560	35×50	0.20	232	1.81	HBE561M35050□VA		

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# HB 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	ESR <sub>typ</sub> 20°C 120Hz (m $\Omega$ )	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
450 (500)	680	35×45	0.20	191	1.91	HBE681M35045□VA
	680	35×50	0.20	191	2.00	HBE681M35050□VA
	820	35×60	0.20	159	2.37	HBE821M35060□VA
	1000	35×70	0.20	130	2.79	HBE102M35070□VA
	1000	40×60	0.20	130	2.81	HBE102M40060□VA
	1200	40×80	0.20	108	3.30	HBE122M40080□VA
	1200	45×70	0.20	108	3.53	HBE122M45070□VA
	1500	40×100	0.20	87	4.33	HBE152M40100□VA
	1500	45×80	0.20	87	4.18	HBE152M45080□VA
	1800	50×95	0.20	72	5.24	HBE182M50095□VA
	2200	50×110	0.20	59	6.00	HBE222M50110□VA
500 (550)	47	22×30	0.20	2767	0.42	HBC470M22030□VA
	56	22×30	0.20	2322	0.46	HBC560M22030□VA
	68	22×35	0.20	1912	0.54	HBC680M22035□VA
	68	25×25	0.20	1912	0.51	HBC680M25025□VA
	82	22×40	0.20	1586	0.60	HBC820M22040□VA
	82	25×30	0.20	1586	0.57	HBC820M25030□VA
	100	22×45	0.20	1300	0.71	HBC101M22045□VA
	100	25×35	0.20	1300	0.68	HBC101M25035□VA
	100	30×30	0.20	1300	0.71	HBC101M30030□VA
	120	22×50	0.20	1083	0.77	HBC121M22050□VA
	120	25×40	0.20	1083	0.75	HBC121M25040□VA
	120	30×30	0.20	1083	0.78	HBC121M30030□VA
	150	25×45	0.20	867	0.83	HBC151M25045□VA
	150	30×35	0.20	867	0.83	HBC151M30035□VA
	150	35×25	0.20	867	0.80	HBC151M35025□VA
	180	25×50	0.20	723	0.92	HBC181M25050□VA
	180	30×40	0.20	723	0.93	HBC181M30040□VA
	220	30×45	0.20	591	1.13	HBC221M30045□VA
	220	35×35	0.20	591	1.12	HBC221M35035□VA
	270	30×50	0.20	482	1.30	HBC271M30050□VA

WV <sub>DC</sub> (Surge Voltage) (V)	Cap ( $\mu$ F)	Size D×L (mm)	tan $\delta$ 20°C 120Hz	ESR <sub>typ</sub> 20°C 120Hz (m $\Omega$ )	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number	
500 (550)	270	35×40	0.20	482	1.30	HBC271M35040□VA	
	330	35×45	0.20	394	1.47	HBC331M35045□VA	
	390	35×50	0.20	333	1.66	HBC391M35050□VA	
	470	35×60	0.20	277	1.89	HBC471M35060□VA	
	560	35×65	0.20	232	2.07	HBC561M35065□VA	
	680	35×75	0.20	191	2.27	HBC681M35075□VA	
	680	40×70	0.20	191	2.37	HBC681M40070□VA	
	820	40×75	0.20	159	2.65	HBC821M40075□VA	
	820	45×60	0.20	159	2.57	HBC821M45060□VA	
	1000	40×90	0.20	130	3.16	HBC102M40090□VA	
	1000	45×75	0.20	130	3.11	HBC102M45075□VA	
	1200	40×100	0.20	108	3.94	HBC122M40100□VA	
	1200	45×85	0.20	108	3.91	HBC122M45085□VA	
	1500	45×100	0.20	87	4.70	HBC152M45100□VA	
	1500	50×90	0.20	87	4.76	HBC152M50090□VA	
	1800	50×105	0.20	72	5.60	HBC182M50105□VA	
	550 (600)	180	30×50	0.20	723	1.00	HBZ181M30050□VA
		220	30×60	0.20	591	1.20	HBZ221M30060□VA
270		35×50	0.20	482	1.30	HBZ271M35050□VA	
330		35×55	0.20	394	1.45	HBZ331M35055□VA	
390		35×60	0.20	333	1.68	HBZ391M35060□VA	
470		35×70	0.20	277	1.93	HBZ471M35070□VA	
560		35×80	0.20	232	2.27	HBZ561M35080□VA	
560		40×70	0.20	232	2.31	HBZ561M40070□VA	
680		40×80	0.20	191	2.66	HBZ681M40080□VA	
680		45×70	0.20	191	2.68	HBZ681M45070□VA	
820		45×80	0.20	159	3.12	HBZ821M45080□VA	
820		50×70	0.20	159	3.12	HBZ821M50070□VA	
1000		45×100	0.20	130	3.80	HBZ102M45100□VA	
1000		50×80	0.20	130	3.60	HBZ102M50080□VA	
1200		50×90	0.20	108	4.20	HBZ122M50090□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.