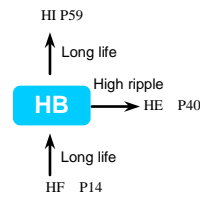


HB SERIES



- Endurance with ripple current: 3000 hours at 105°C
- Rated voltage range: 16V-550V
- Ideal for switching power and inverter smoothing capacitors.



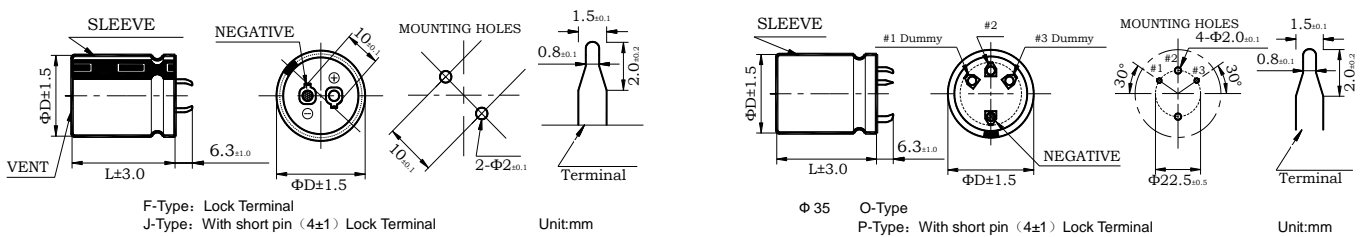
SPECIFICATIONS

Items	Characteristics	
Operating Temperature Range	-40~+105°C	-25~+105°C
Rated Working Voltage Range	16~100V	160~550V
Capacitance Tolerance	±20% (20°C, 120Hz)	
Dissipation Factor (MAX) 20°C, 120Hz	U _R (V)	16 25 35 50 63 80 100 160~315 350~400 450~550
	tanδ	0.50 0.45 0.40 0.35 0.30 0.25 0.20 0.15 0.18 0.20
Impedance Ratio (MAX) 120Hz	U _R (V)	16~100 160~200 250 315 350~400 450~550
	Z _{-25°C} /Z _{+20°C}	4 3 4 7 7 8
	Z _{-40°C} /Z _{+20°C}	18 15 15
Leakage Current (MAX)	I=0.01C _R U _R or 1.5mA whichever is minimum. (at 20°C, After 5 minutes application of rated voltage) I=Leakage Current(µA) U _R =Rated Voltage(V) C _R =Rated Capacitance(µF)	

	Useful Life		Load Life	Endurance Test	Shelf Life
Life Time	5000h	>180000h	3000h	3000h	1000h
Leakage Current	≤ Specified value		≤ Specified value	≤ Specified value	≤ Specified value
tanδ change	≤ 300% of specified value		≤ 200% of specified value	≤ 200% of specified value	≤ 200% of specified value
Capacitance Change	Within ± 30% of initial value		Within ± 20% of initial value	Within ± 20% of initial value	Within ± 20% of initial value
Condition	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 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.

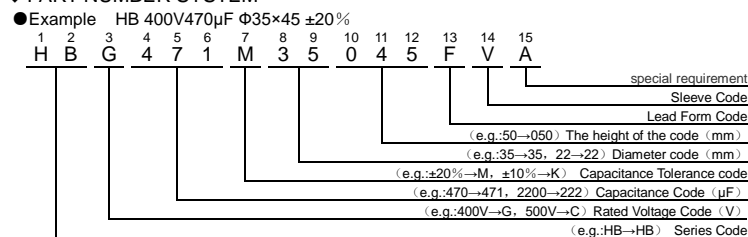
Dimensions

Terminal Code



- Please consult to us for the terminal type not displayed in content.

PART NUMBER SYSTEM



Rated Ripple Current Multiplies

● Frequency coefficient

Rated voltage (v)	Frequency (Hz)	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
160~550WV		0.80	1.00	1.16	1.30	1.41

● Temperature coefficient

Rated voltage (v)	Temperature (°C)	+40	+55	+70	+85	+105
16~550WV		2.7	2.5	2.1	1.7	1.0

HB SERIES

◆ Standard Ratings

WV _{DC} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20°C/120Hz	Ripple Current 105°C/120Hz (Arms)	Catalog Part Number
16 (20)	6800	22×25	0.50	2.25	HBV682M22025□VA
	8200	25×25	0.50	2.43	HBV822M25025□VA
	10000	22×30	0.50	2.79	HBV103M22030□VA
	10000	25×25	0.50	2.79	HBV103M25025□VA
	12000	22×35	0.50	2.90	HBV123M22035□VA
	12000	25×30	0.50	2.90	HBV123M25030□VA
	12000	30×25	0.50	2.90	HBV123M30025□VA
	15000	22×40	0.50	3.20	HBV153M22040□VA
	15000	25×35	0.50	3.20	HBV153M25035□VA
	18000	22×45	0.50	3.50	HBV183M22045□VA
	18000	25×40	0.50	3.50	HBV183M25040□VA
	18000	30×30	0.50	3.50	HBV183M30030□VA
	18000	35×25	0.50	3.50	HBV183M35025□VA
	22000	25×45	0.50	3.80	HBV223M25045□VA
	22000	30×35	0.50	3.80	HBV223M30035□VA
	27000	25×50	0.50	4.20	HBV273M25050□VA
	27000	30×40	0.50	4.20	HBV273M30040□VA
	27000	35×30	0.50	4.20	HBV273M35030□VA
	33000	30×45	0.50	4.70	HBV333M30045□VA
	25 (32)	33000	35×35	0.50	4.70
39000		30×50	0.50	5.10	HBV393M30050□VA
39000		35×35	0.50	5.10	HBV393M35035□VA
47000		35×40	0.50	5.55	HBV473M35040□VA
56000		30×60	0.50	5.90	HBV563M30060□VA
56000		35×45	0.50	5.90	HBV563M35045□VA
68000		35×55	0.50	6.30	HBV683M35055□VA
82000		35×60	0.50	6.40	HBV823M35060□VA
4700		22×25	0.45	2.04	HBU472M22025□VA
5600		25×25	0.45	2.23	HBU562M25025□VA
6800		22×30	0.45	2.40	HBU682M22030□VA
6800		25×25	0.45	2.40	HBU682M25025□VA
8200		22×35	0.45	2.70	HBU822M22035□VA
8200		25×30	0.45	2.70	HBU822M25030□VA
8200		30×25	0.45	2.70	HBU822M30025□VA
10000		22×40	0.45	3.00	HBU103M22040□VA
10000		25×35	0.45	3.00	HBU103M25035□VA
12000		22×45	0.45	3.20	HBU123M22045□VA
12000		25×40	0.45	3.20	HBU123M25040□VA
12000		30×30	0.45	3.20	HBU123M30030□VA
12000	35×25	0.45	3.20	HBU123M35025□VA	
15000	25×45	0.45	3.60	HBU153M25045□VA	
15000	30×35	0.45	3.60	HBU153M30035□VA	
15000	35×30	0.45	3.60	HBU153M35030□VA	
18000	25×50	0.45	3.90	HBU183M25050□VA	
18000	30×40	0.45	3.90	HBU183M30040□VA	
18000	35×30	0.45	3.90	HBU183M35030□VA	
22000	30×45	0.45	4.30	HBU223M30045□VA	
22000	35×35	0.45	4.30	HBU223M35035□VA	
27000	30×50	0.45	4.80	HBU273M30050□VA	
27000	35×45	0.45	4.80	HBU273M35045□VA	
33000	35×50	0.45	5.55	HBU333M35050□VA	
35 (44)	3300	22×25	0.40	1.94	HBT332M22025□VA
	3900	22×30	0.40	2.02	HBT392M22030□VA
	4700	25×25	0.40	2.20	HBT472M25025□VA
	5600	22×35	0.40	2.40	HBT562M22035□VA
	5600	25×30	0.40	2.40	HBT562M25030□VA
	5600	30×25	0.40	2.40	HBT562M30025□VA
6800	22×40	0.40	2.78	HBT682M22040□VA	

WV _{DC} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20°C/120Hz	Ripple Current 105°C/120Hz (Arms)	Catalog Part Number	
35 (44)	6800	25×35	0.40	2.78	HBT682M25035□VA	
	8200	22×50	0.40	2.90	HBT822M22050□VA	
	8200	25×40	0.40	2.90	HBT822M25040□VA	
	8200	30×30	0.40	2.90	HBT822M30030□VA	
	8200	35×25	0.40	2.90	HBT822M35025□VA	
	10000	25×45	0.40	3.20	HBT103M25045□VA	
	10000	30×35	0.40	3.20	HBT103M30035□VA	
	12000	25×50	0.40	3.50	HBT123M25050□VA	
	12000	30×40	0.40	3.50	HBT123M30040□VA	
	12000	35×30	0.40	3.50	HBT123M35030□VA	
	15000	30×45	0.40	3.90	HBT153M30045□VA	
	15000	35×35	0.40	3.90	HBT153M35035□VA	
	18000	35×40	0.40	4.51	HBT183M35040□VA	
	22000	35×50	0.40	5.24	HBT223M35050□VA	
	27000	35×55	0.40	5.60	HBT273M35055□VA	
	50 (63)	1800	22×25	0.35	1.53	HBR182M22025□VA
		2200	22×30	0.35	1.72	HBR222M22030□VA
		2700	22×30	0.35	1.82	HBR272M22030□VA
		2700	25×25	0.35	1.80	HBR272M25025□VA
		3300	22×35	0.35	2.01	HBR332M22035□VA
3300		25×30	0.35	2.01	HBR332M25030□VA	
3900		22×40	0.35	2.23	HBR392M22040□VA	
3900		25×35	0.35	2.23	HBR392M25035□VA	
3900		30×25	0.35	2.23	HBR392M30025□VA	
4700		22×45	0.35	2.50	HBR472M22045□VA	
4700		30×30	0.35	2.50	HBR472M30030□VA	
4700		35×25	0.35	2.50	HBR472M35025□VA	
5600		22×50	0.35	2.80	HBR562M22050□VA	
5600		25×40	0.35	2.80	HBR562M25040□VA	
5600		30×35	0.35	2.80	HBR562M30035□VA	
6800		25×50	0.35	3.30	HBR682M25050□VA	
6800		30×40	0.35	3.30	HBR682M30040□VA	
6800		35×30	0.35	3.30	HBR682M35030□VA	
8200		30×45	0.35	3.85	HBR822M30045□VA	
8200		35×35	0.35	3.85	HBR822M35035□VA	
10000	30×50	0.35	4.49	HBR103M30050□VA		
10000	35×40	0.35	4.49	HBR103M35040□VA		
12000	35×45	0.35	4.56	HBR123M35045□VA		
15000	35×50	0.35	4.80	HBR153M35050□VA		
18000	35×60	0.35	5.10	HBR183M35060□VA		
63 (79)	1200	22×25	0.30	1.40	HBQ122M22025□VA	
	1500	22×25	0.30	1.52	HBQ152M22025□VA	
	1800	22×30	0.30	1.72	HBQ182M22030□VA	
	1800	25×25	0.30	1.72	HBQ182M25025□VA	
	2200	22×35	0.30	2.01	HBQ222M22035□VA	
	2200	25×30	0.30	2.01	HBQ222M25030□VA	
	2700	22×40	0.30	2.20	HBQ272M22040□VA	
	2700	25×35	0.30	2.20	HBQ272M25035□VA	
	2700	30×25	0.30	2.20	HBQ272M30025□VA	
	3300	22×50	0.30	2.60	HBQ332M22050□VA	
	3300	25×40	0.30	2.60	HBQ332M25040□VA	
	3300	30×30	0.30	2.60	HBQ332M30030□VA	
	3300	35×25	0.30	2.60	HBQ332M35025□VA	
	3900	25×45	0.30	2.57	HBQ392M25045□VA	
	3900	30×35	0.30	2.70	HBQ392M30035□VA	
	4700	25×50	0.30	3.00	HBQ472M25050□VA	
4700	30×40	0.30	3.00	HBQ472M30040□VA		
4700	35×30	0.30	3.00	HBQ472M35030□VA		

*□Enter the appropriate terminal code

HB SERIES

◆ Standard Ratings

WV _{DC} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20°C/120Hz	Ripple Current 105°C/120Hz Z (Arms)	Catalog Part Number
63 (79)	5600	30×45	0.30	3.22	HBQ562M30045□VA
	5600	35×35	0.30	3.30	HBQ562M35035□VA
	6800	30×50	0.30	3.68	HBQ682M30050□VA
	6800	35×40	0.30	3.84	HBQ682M35040□VA
	8200	35×45	0.30	4.43	HBQ822M35045□VA
	10000	35×50	0.30	5.11	HBQ103M35050□VA
80 (100)	820	22×25	0.25	1.04	HBP821M22025□VA
	1000	22×25	0.25	1.19	HBP102M22025□VA
	1200	22×30	0.25	1.50	HBP122M22030□VA
	1200	25×25	0.25	1.50	HBP122M25025□VA
	1500	22×35	0.25	1.59	HBP152M22035□VA
	1500	25×30	0.25	1.59	HBP152M25030□VA
	1800	22×40	0.25	1.79	HBP182M22040□VA
	1800	30×25	0.25	1.79	HBP182M30025□VA
	2200	22×45	0.25	2.03	HBP222M22045□VA
	2200	25×35	0.25	2.10	HBP222M25035□VA
	2200	30×30	0.25	2.10	HBP222M30030□VA
	2200	35×25	0.25	2.10	HBP222M35025□VA
	2700	25×45	0.25	2.35	HBP272M25045□VA
	2700	30×35	0.25	2.35	HBP272M30035□VA
	3300	25×50	0.25	2.60	HBP332M25050□VA
	3300	30×40	0.25	2.61	HBP332M30040□VA
	3300	35×30	0.25	2.64	HBP332M35030□VA
	3900	30×45	0.25	2.97	HBP392M30045□VA
	3900	35×35	0.25	2.97	HBP392M35035□VA
	4700	30×50	0.25	3.34	HBP472M30050□VA
	4700	35×40	0.25	3.38	HBP472M35040□VA
	5600	35×45	0.25	3.80	HBP562M35045□VA
	6800	35×50	0.25	3.90	HBP682M35050□VA
	8200	35×55	0.25	4.20	HBP822M35055□VA
10000	35×60	0.25	4.48	HBP103M35060□VA	
100 (125)	560	22×25	0.20	0.95	HBO561M22025□VA
	680	22×30	0.20	1.15	HBO681M22030□VA
	820	22×30	0.20	1.40	HBO821M22030□VA
	820	25×25	0.20	1.40	HBO821M25025□VA
	1000	22×35	0.20	1.47	HBO102M22035□VA
	1000	25×30	0.20	1.47	HBO102M25030□VA
	1200	22×40	0.20	1.69	HBO122M22040□VA
	1200	25×35	0.20	1.68	HBO122M25035□VA
	1200	30×25	0.20	1.68	HBO122M30025□VA
	1500	22×45	0.20	1.97	HBO152M22045□VA
	1500	25×40	0.20	1.98	HBO152M25040□VA
	1500	30×30	0.20	1.95	HBO152M30030□VA
	1500	35×25	0.20	1.95	HBO152M35025□VA
	1800	25×45	0.20	2.20	HBO182M25045□VA
	1800	30×35	0.20	2.20	HBO182M30035□VA
	1800	35×30	0.20	2.20	HBO182M35030□VA
	2200	25×50	0.20	2.53	HBO222M25050□VA
	2200	30×40	0.20	2.55	HBO222M30040□VA
	2200	35×30	0.20	2.60	HBO222M35030□VA
	2700	30×45	0.20	2.86	HBO272M30045□VA
	2700	35×35	0.20	2.90	HBO272M35035□VA
	3300	30×50	0.20	3.30	HBO332M30050□VA
	3300	35×40	0.20	3.30	HBO332M35040□VA
	3900	35×45	0.20	3.67	HBO392M35045□VA
4700	35×50	0.20	3.80	HBO472M35050□VA	
5600	35×60	0.20	4.05	HBO562M35060□VA	

WV _{DC} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20°C/120Hz	Ripple Current 105°C/120Hz (Arms)	Catalog Part Number
160 (200)	330	22×25	0.15	1.20	HBN331M22025□VA
	390	22×30	0.15	1.30	HBN391M22030□VA
	470	22×35	0.15	1.55	HBN471M22035□VA
	470	25×25	0.15	1.55	HBN471M25025□VA
	560	22×40	0.15	1.67	HBN561M22040□VA
	560	25×30	0.15	1.67	HBN561M25030□VA
	680	22×45	0.15	1.82	HBN681M22045□VA
	680	25×35	0.15	1.82	HBN681M25035□VA
	680	30×25	0.15	1.82	HBN681M30025□VA
	820	22×50	0.15	2.04	HBN821M22050□VA
	820	25×40	0.15	2.04	HBN821M25040□VA
	820	30×30	0.15	2.04	HBN821M30030□VA
	820	35×25	0.15	2.04	HBN821M35025□VA
	1000	25×45	0.15	2.40	HBN102M25045□VA
	1000	30×35	0.15	2.25	HBN102M30035□VA
	1200	25×50	0.15	2.49	HBN122M25050□VA
	1200	30×40	0.15	2.49	HBN122M30040□VA
	1200	35×30	0.15	2.49	HBN122M35030□VA
	1500	30×45	0.15	2.84	HBN152M30045□VA
	1500	35×35	0.15	2.84	HBN152M35035□VA
	1800	35×45	0.15	3.32	HBN182M35045□VA
	2200	35×50	0.15	3.60	HBN222M35050□VA
	2700	35×60	0.15	4.16	HBN272M35060□VA
	200 (250)	220	22×25	0.15	1.00
330		22×30	0.15	1.25	HBL331M22030□VA
330		25×25	0.15	1.25	HBL331M25025□VA
390		22×35	0.15	1.35	HBL391M22035□VA
470		22×40	0.15	1.50	HBL471M22040□VA
470		25×30	0.15	1.50	HBL471M25030□VA
470		30×25	0.15	1.50	HBL471M30025□VA
560		22×45	0.15	1.67	HBL561M22045□VA
560		25×35	0.15	1.60	HBL561M25035□VA
680		22×50	0.15	1.78	HBL681M22050□VA
680		25×40	0.15	1.78	HBL681M25040□VA
680		30×30	0.15	1.78	HBL681M30030□VA
680		35×25	0.15	1.78	HBL681M35025□VA
820		25×50	0.15	2.00	HBL821M25050□VA
820		30×35	0.15	2.04	HBL821M30035□VA
820		35×30	0.15	2.00	HBL821M35030□VA
1000		30×45	0.15	2.30	HBL102M30045□VA
1000		35×35	0.15	2.30	HBL102M35035□VA
1200	30×50	0.15	2.65	HBL122M30050□VA	
1200	35×40	0.15	2.65	HBL122M35040□VA	
1500	35×45	0.15	3.12	HBL152M35045□VA	
1800	35×50	0.15	3.50	HBL182M35050□VA	
2200	35×60	0.15	4.32	HBL222M35060□VA	
250 (300)	180	22×25	0.15	0.90	HBJ181M22025□VA
	220	22×30	0.15	1.00	HBJ221M22030□VA
	220	25×25	0.15	1.00	HBJ221M25025□VA
	270	22×35	0.15	1.18	HBJ271M22035□VA
	330	22×40	0.15	1.30	HBJ331M22040□VA
	330	25×30	0.15	1.30	HBJ331M25030□VA
	330	30×25	0.15	1.30	HBJ331M30025□VA
	390	22×45	0.15	1.49	HBJ391M22045□VA
	390	25×35	0.15	1.49	HBJ391M25035□VA
	470	22×50	0.15	1.65	HBJ471M22050□VA
	470	25×40	0.15	1.65	HBJ471M25040□VA
	470	30×30	0.15	1.65	HBJ471M30030□VA

*□Enter the appropriate terminal code

HB SERIES

◆ Standard Ratings

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C 120Hz	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
250 (300)	470	35×25	0.15	1.65	HBJ471M35025□VA
	560	25×45	0.15	1.80	HBJ561M25045□VA
	560	30×35	0.15	1.80	HBJ561M30035□VA
	560	35×30	0.15	1.80	HBJ561M35030□VA
	680	25×50	0.15	2.00	HBJ681M25050□VA
	680	30×40	0.15	2.00	HBJ681M30040□VA
	820	30×45	0.15	2.30	HBJ821M30045□VA
	820	35×35	0.15	2.30	HBJ821M35035□VA
	1000	30×50	0.15	2.70	HBJ102M30050□VA
	1000	35×40	0.15	2.70	HBJ102M35040□VA
	1200	35×45	0.15	3.09	HBJ122M35045□VA
	350 (400)	68	22×25	0.18	0.47
100		22×30	0.18	0.60	HBH101M22030□VA
100		25×25	0.18	0.60	HBH101M25025□VA
120		22×35	0.18	0.70	HBH121M22035□VA
150		22×40	0.18	0.77	HBH151M22040□VA
150		25×30	0.18	0.78	HBH151M25030□VA
150		30×25	0.18	0.78	HBH151M30025□VA
180		22×45	0.18	0.87	HBH181M22045□VA
180		25×35	0.18	0.92	HBH181M25035□VA
180		30×30	0.18	0.90	HBH181M30030□VA
220		22×50	0.18	1.04	HBH221M22050□VA
220		25×40	0.18	1.04	HBH221M25040□VA
220		35×25	0.18	1.04	HBH221M35025□VA
270		25×50	0.18	1.28	HBH271M25050□VA
270		30×35	0.18	1.26	HBH271M30035□VA
270		35×30	0.18	1.24	HBH271M35030□VA
330		30×45	0.18	1.32	HBH331M30045□VA
330		35×35	0.18	1.32	HBH331M35035□VA
390		30×50	0.18	1.64	HBH391M30050□VA
390		35×40	0.18	1.64	HBH391M35040□VA
470		30×50	0.18	1.78	HBH471M30050□VA
470		35×45	0.18	1.86	HBH471M35045□VA
560		30×60	0.18	2.10	HBH561M30060□VA
560		35×50	0.18	2.10	HBH561M35050□VA
680		35×55	0.18	2.36	HBH681M35055□VA
820		35×60	0.18	2.70	HBH821M35060□VA
1000		35×60	0.18	3.06	HBH102M35060□VA
1000		35×65	0.18	3.10	HBH102M35065□VA
1000		40×55	0.18	3.10	HBH102M40055□VA
1200		35×75	0.18	3.80	HBH122M35075□VA
1200		40×65	0.18	3.86	HBH122M40065□VA
1500		40×80	0.18	4.56	HBH152M40080□VA
1500	45×65	0.18	4.36	HBH152M45065□VA	
1800	40×95	0.18	5.32	HBH182M40095□VA	
1800	45×75	0.18	5.14	HBH182M45075□VA	
2200	45×90	0.18	5.90	HBH222M45090□VA	
2200	50×75	0.18	5.70	HBH222M50075□VA	
2700	45×100	0.18	6.80	HBH272M45100□VA	
2700	50×90	0.18	6.90	HBH272M50090□VA	
3300	50×105	0.18	8.00	HBH332M50105□VA	
400 (450)	68	22×25	0.18	0.58	HBG680M22025□VA
	82	22×30	0.18	0.68	HBG820M22030□VA
	82	25×25	0.18	0.68	HBG820M25025□VA
	100	22×30	0.18	0.74	HBG101M22030□VA
	100	25×25	0.18	0.74	HBG101M25025□VA
	120	22×35	0.18	0.80	HBG121M22035□VA
	120	25×30	0.18	0.80	HBG121M25030□VA

WV _{DC} (Surge Voltage) (V)	Cap (μ F)	Size D×L (mm)	tan δ 20°C 120Hz	Ripple Current 105°C 120Hz (Arms)	Catalog Part Number
400 (450)	120	30×25	0.18	0.80	HBG121M30025□VA
	150	22×40	0.18	0.84	HBG151M22040□VA
	150	25×35	0.18	0.86	HBG151M25035□VA
	150	30×25	0.18	0.86	HBG151M30025□VA
	180	22×50	0.18	1.00	HBG181M22050□VA
	180	25×40	0.18	1.02	HBG181M25040□VA
	180	30×30	0.18	1.02	HBG181M30030□VA
	180	35×25	0.18	1.02	HBG181M35025□VA
	220	25×45	0.18	1.10	HBG221M25045□VA
	220	30×35	0.18	1.08	HBG221M30035□VA
	220	35×25	0.18	1.14	HBG221M35025□VA
	270	25×50	0.18	1.34	HBG271M25050□VA
	270	30×40	0.18	1.26	HBG271M30040□VA
	270	35×30	0.18	1.26	HBG271M35030□VA
	330	30×45	0.18	1.60	HBG331M30045□VA
	330	35×35	0.18	1.54	HBG331M35035□VA
	390	30×50	0.18	1.66	HBG391M30050□VA
	390	35×40	0.18	1.66	HBG391M35040□VA
	470	30×50	0.18	1.96	HBG471M30050□VA
	470	35×45	0.18	1.96	HBG471M35045□VA
	560	35×50	0.18	2.16	HBG561M35050□VA
	680	35×60	0.18	2.36	HBG681M35060□VA
	820	35×65	0.18	2.90	HBG821M35065□VA
	820	40×55	0.18	3.10	HBG821M40055□VA
	1000	35×80	0.18	3.50	HBG102M35080□VA
	1000	40×65	0.18	3.40	HBG102M40065□VA
	1200	35×90	0.18	4.00	HBG122M35090□VA
	1200	40×80	0.18	4.10	HBG122M40080□VA
	1200	45×60	0.18	3.90	HBG122M45060□VA
	1500	40×90	0.18	4.40	HBG152M40090□VA
	1500	45×75	0.18	4.60	HBG152M45075□VA
	1500	50×70	0.18	4.90	HBG152M50070□VA
1800	45×90	0.18	5.60	HBG182M45090□VA	
1800	50×80	0.18	5.60	HBG182M50080□VA	
2200	50×90	0.18	6.40	HBG222M50090□VA	
2700	50×105	0.18	7.20	HBG272M50105□VA	
450 (500)	56	22×25	0.20	0.50	HBE560M22025□VA
	68	22×30	0.20	0.60	HBE680M22030□VA
	68	25×25	0.20	0.60	HBE680M25025□VA
	82	22×35	0.20	0.70	HBE820M22035□VA
	82	25×30	0.20	0.70	HBE820M25030□VA
	100	22×40	0.20	0.74	HBE101M22040□VA
	100	25×30	0.20	0.74	HBE101M25030□VA
	100	30×25	0.20	0.82	HBE101M30025□VA
	120	22×45	0.20	0.80	HBE121M22045□VA
	120	25×35	0.20	0.80	HBE121M25035□VA
	120	30×30	0.20	0.80	HBE121M30030□VA
	150	22×50	0.20	0.84	HBE151M22050□VA
	150	25×40	0.20	0.88	HBE151M25040□VA
	150	30×30	0.20	0.88	HBE151M30030□VA
	150	35×25	0.20	0.88	HBE151M35025□VA
180	25×45	0.20	1.00	HBE181M25045□VA	
180	30×35	0.20	1.00	HBE181M30035□VA	
180	35×30	0.20	1.04	HBE181M35030□VA	
220	25×50	0.20	1.12	HBE221M25050□VA	
220	30×40	0.20	1.12	HBE221M30040□VA	
220	35×30	0.20	1.12	HBE221M35030□VA	
270	30×45	0.20	1.28	HBE271M30045□VA	

*□Enter the appropriate terminal code

HB SERIES

◆ Standard Ratings

WV _{DC} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20℃120Hz	Ripple Current 105℃120Hz (Arms)	Catalog Part Number
450 (500)	270	35×35	0.20	1.28	HBE271M35035□VA
	330	30×50	0.20	1.38	HBE331M30050□VA
	330	35×40	0.20	1.46	HBE331M35040□VA
	390	30×60	0.20	1.66	HBE391M30060□VA
	390	35×45	0.20	1.66	HBE391M35045□VA
	470	35×50	0.20	1.88	HBE471M35050□VA
	560	35×60	0.20	2.16	HBE561M35060□VA
	680	35×65	0.20	2.60	HBE681M35065□VA
	680	40×60	0.20	2.80	HBE681M40060□VA
	820	35×75	0.20	3.10	HBE821M35075□VA
	820	40×65	0.20	3.20	HBE821M40065□VA
	1000	35×90	0.20	3.66	HBE102M35090□VA
	1000	40×80	0.20	3.76	HBE102M40080□VA
	1200	40×95	0.20	4.50	HBE122M40095□VA
	1200	45×75	0.20	4.30	HBE122M45075□VA
	1200	50×65	0.20	4.30	HBE122M50065□VA
	1500	40×100	0.20	4.80	HBE152M40100□VA
	1500	45×90	0.20	5.10	HBE152M45090□VA
1500	50×80	0.20	5.20	HBE152M50080□VA	
1800	50×95	0.20	5.80	HBE182M50095□VA	
2200	50×110	0.20	6.70	HBE222M50110□VA	
500 (550)	47	22×30	0.20	0.46	HBC470M22030□VA
	56	22×40	0.20	0.46	HBC560M22040□VA
	68	22×45	0.20	0.60	HBC680M22045□VA
	68	25×30	0.20	0.60	HBC680M25030□VA
	82	22×50	0.20	0.68	HBC820M22050□VA
	82	25×40	0.20	0.68	HBC820M25040□VA
	100	22×45	0.20	0.72	HBC101M22045□VA
	100	25×40	0.20	0.72	HBC101M25040□VA
	100	30×30	0.20	0.70	HBC101M30030□VA
	120	22×50	0.20	0.80	HBC121M22050□VA
	120	25×40	0.20	0.80	HBC121M25040□VA
	120	30×35	0.20	0.80	HBC121M30035□VA
	120	35×30	0.20	0.80	HBC121M35030□VA
	150	25×45	0.20	0.86	HBC151M25045□VA
	150	30×40	0.20	0.90	HBC151M30040□VA
	150	35×35	0.20	0.90	HBC151M35035□VA
	180	25×50	0.20	1.00	HBC181M25050□VA
	180	30×45	0.20	1.02	HBC181M30045□VA
	220	30×50	0.20	1.18	HBC221M30050□VA
	220	35×40	0.20	1.18	HBC221M35040□VA
	270	30×55	0.20	1.36	HBC271M30055□VA
	270	35×50	0.20	1.36	HBC271M35050□VA
	330	35×60	0.20	1.66	HBC331M35060□VA
	390	35×60	0.20	1.80	HBC391M35060□VA
	470	35×60	0.20	2.20	HBC471M35060□VA
	560	35×65	0.20	2.40	HBC561M35065□VA
	560	40×55	0.20	2.40	HBC561M40055□VA
	680	35×75	0.20	2.80	HBC681M35075□VA
680	40×70	0.20	2.90	HBC681M40070□VA	
820	40×75	0.20	3.30	HBC821M40075□VA	
820	45×60	0.20	3.20	HBC821M45060□VA	
1000	40×90	0.20	3.90	HBC102M40090□VA	
1000	45×75	0.20	3.80	HBC102M45075□VA	
1200	40×100	0.20	4.40	HBC122M40100□VA	
1200	45×85	0.20	4.30	HBC122M45085□VA	
1200	50×80	0.20	4.50	HBC122M50080□VA	
1500	45×100	0.20	5.00	HBC152M45100□VA	

WV _{DC} (Surge Voltage) (V)	Cap (μF)	Size D×L (mm)	tanδ 20℃120Hz	Ripple Current 105℃120Hz (Arms)	Catalog Part Number
500 (550)	1500	50×90	0.20	5.10	HBC152M50090□VA
	1800	50×105	0.20	5.90	HBC182M50105□VA
550 (600)	180	30×50	0.20	1.10	HBZ181M30050□VA
	220	30×60	0.20	1.30	HBZ221M30060□VA
	270	35×50	0.20	1.50	HBZ271M35050□VA
	330	35×60	0.20	1.70	HBZ331M35060□VA
	390	35×70	0.20	2.00	HBZ391M35070□VA
	390	40×60	0.20	2.00	HBZ391M40060□VA
	470	35×80	0.20	2.40	HBZ471M35080□VA
	470	40×70	0.20	2.40	HBZ471M40070□VA
	560	35×90	0.20	2.70	HBZ561M35090□VA
	560	40×80	0.20	2.70	HBZ561M40080□VA
	680	40×90	0.20	3.10	HBZ681M40090□VA
	680	45×70	0.20	3.00	HBZ681M45070□VA
	820	45×85	0.20	3.50	HBZ821M45085□VA
	820	50×70	0.20	3.40	HBZ821M50070□VA
	1000	45×100	0.20	4.10	HBZ102M45100□VA
	1000	50×80	0.20	3.90	HBZ102M50080□VA
	1200	50×90	0.20	4.60	HBZ122M50090□VA

*□Enter the appropriate terminal code

* Please ask for advice for other sizes.

*Aluminum electrolytic capacitor will emit heat when ripple current is applied, the performance will deteriorate when temp. rises. the useful life will be half of original life when temp rises every 5°C. Please reduce the ripple current when using capacitor.