

BH series

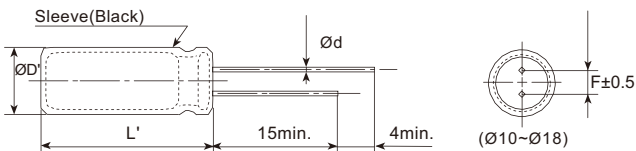
- Endurance: 3,000 hours at 125°C
- High reliability, suited for automobile electronics
- Miniaturized, long life, low impedance
- Compliant to AEC-Q200
- **RoHS Compliant**



SPECIFICATIONS

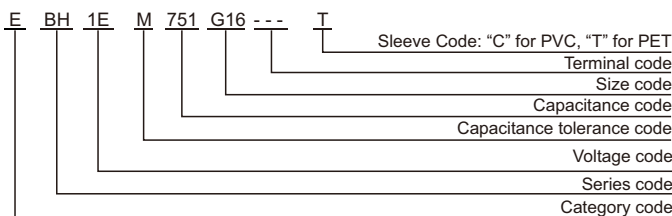
Items	Characteristics										
Category Temperature Range	-40~+125°C										
Rated Working Voltage Range	25~400 V _{dc}										
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)										
Leakage Current	25~100 V _{dc}					160~400 V _{dc}					
	I ≤ 0.03CV or 4μA. (after 2 minutes) whichever is greater.					CV ≤ 1,000		I ≤ 0.1CV + 40μA. (after 1 minute)			
						CV > 1,000		I ≤ 0.04CV + 100μA. (after 1 minute)			
Where, I: Max.leakage current (μA), C :nominal capacitance (μF), V : Rated voltage (V) (at 20°C)											
Dissipation Factor (tanδ)	Rated Voltage (V _{dc})	25	35	50	63	80	100	160~250	350~400		
	Dissipation Factor (max.)	0.14	0.12	0.10	0.09	0.08	0.08	0.15	0.20		
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)										
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage (V _{dc})	25	35	50	63	80	100	160~250	350~400		
	Z(-25°C)/Z(+20°C)	2	2	2	2	2	2	3	6		
	Z(-40°C)/Z(+20°C)	4	4	4	4	4	4	6	12	(at 120Hz)	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after DC voltage plus rated ripple current is applied for 3,000 hours at 125°C.										
	Rated Voltage (V _{dc})	25~100 V _{dc}					160~400 V _{dc}				
	Capacitance Change	≤±30% of the initial value					≤±20% of the initial value				
	Dissipation Factor	≤300% of the initial specified value					≤200% of the initial specified value				
	Leakage Current	≤The initial specified value					≤The initial specified value				
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied.										
	Capacitance Change	≤±20% of the initial value									
	Dissipation Factor	≤200% of the initial specified value									
	Leakage Current	≤200% of the initial specified value									

DIMENSIONS [mm]



ØD	10	12.5	14.5	16	18
Ød	0.6	0.6	0.8	0.8	0.8
F	5.0	5.0	7.5	7.5	7.5
ØD'	ØD+0.5max.				
L'	L+2max.				

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current
6.3 to 100 V_{dc}

Cap.(μF)	Freq.(Hz)			
	120	1k	10k	100k
130 to 240	0.40	0.82	0.93	1.00
270 to 560	0.50	0.85	0.94	1.00
620 to 2,000	0.60	0.87	0.95	1.00
2,200 to 4,300	0.75	0.90	0.95	1.00
4,700 to 11,000	0.85	0.95	0.98	1.00

160 to 400 V_{dc}

Cap.(μF)	Freq.(Hz)					
	50	120	300	1k	10k	100k
10 to 33	0.15	0.30	0.45	0.65	0.95	1.00
36 to 220	0.25	0.35	0.50	0.70	0.96	1.00

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■ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size ΦDxL (mm)	Impedance (Ω _{max} /20°C, 100kHz)	Rated ripple current (mA _{RMS} /125°C, 100kHz)	Part Number
25	510	10×13	0.182	720	EBH1EM511G13---T
	750	10×16	0.122	1040	EBH1EM751G16---T
	910	12.5×16	0.107	980	EBH1EM911W16---T
	1200	10×20	0.095	1230	EBH1EM122G20---T
	1200	14.5×15	0.087	1060	EBH1EM122X15---T
	1500	10×25	0.055	1500	EBH1EM152G25---T
	1600	16×15	0.082	1140	EBH1EM162L15---T
	1800	12.5×20	0.049	1270	EBH1EM182W20---T
	2000	10×30	0.043	1720	EBH1EM202G30---T
	2200	14.5×20	0.039	1420	EBH1EM222X20---T
	2400	18×15	0.069	1300	EBH1EM242M15---T
	2700	12.5×25	0.039	1820	EBH1EM272W25---T
	3000	16×20	0.038	1510	EBH1EM302L20---T
	3300	12.5×30	0.033	2210	EBH1EM332W30---T
	3600	14.5×25	0.033	2200	EBH1EM362X25---T
	4300	12.5×35	0.029	2490	EBH1EM432W35---T
	4300	16×25	0.029	2420	EBH1EM432L25---T
	4300	18×20	0.036	1540	EBH1EM432M20---T
	4700	14.5×30	0.026	2470	EBH1EM472X30---T
	35	5100	12.5×40	0.025	2890
5100		14.5×35	0.023	2740	EBH1EM512X35---T
5100		16×30	0.023	2660	EBH1EM512L30---T
5600		18×25	0.026	2560	EBH1EM562M25---T
6800		14.5×40	0.021	3060	EBH1EM682X40---T
6800		16×35	0.021	2900	EBH1EM682L35---T
7500		18×30	0.021	2780	EBH1EM752M30---T
8200		16×40	0.020	3150	EBH1EM822L40---T
9100		18×35	0.020	3000	EBH1EM912M35---T
11000		18×40	0.018	3230	EBH1EM113M40---T
50	300	10×13	0.182	720	EBH1VM301G13---T
	510	10×16	0.122	1040	EBH1VM511G16---T
	560	12.5×16	0.107	980	EBH1VM561W16---T
	680	10×20	0.095	1230	EBH1VM681G20---T
	750	14.5×15	0.087	1060	EBH1VM751X15---T
	820	10×25	0.055	1500	EBH1VM821G25---T
	1100	12.5×20	0.049	1270	EBH1VM112W20---T
	1100	16×15	0.082	1140	EBH1VM112L15---T
	1200	10×30	0.043	1720	EBH1VM122G30---T
	1500	12.5×25	0.039	1820	EBH1VM152W25---T
	1500	14.5×20	0.039	1420	EBH1VM152X20---T
	1500	18×15	0.069	1300	EBH1VM152M15---T
	2000	12.5×30	0.033	2210	EBH1VM202W30---T
	2000	16×20	0.038	1510	EBH1VM202L20---T
	2200	14.5×25	0.033	2200	EBH1VM222X25---T
	2400	12.5×35	0.029	2490	EBH1VM242W35---T
	2400	16×25	0.029	2420	EBH1VM242L25---T
	2400	18×20	0.036	1540	EBH1VM242M20---T
	2700	12.5×40	0.025	2890	EBH1VM272W40---T
	2700	14.5×30	0.026	2470	EBH1VM272X30---T
50	3000	14.5×35	0.023	2740	EBH1VM302X35---T
	3300	16×30	0.023	2660	EBH1VM332L30---T
	3300	18×25	0.026	2560	EBH1VM332M25---T
	3900	14.5×40	0.021	3060	EBH1VM392X40---T
	4300	16×35	0.021	2900	EBH1VM432L35---T
	4300	18×30	0.021	2780	EBH1VM432M30---T
	4700	16×40	0.020	3150	EBH1VM472L40---T
	5100	18×35	0.020	3000	EBH1VM512M35---T
	6200	18×40	0.018	3230	EBH1VM622M40---T
	50	160	10×13	0.312	580
240		10×16	0.208	860	EBH1HM241G16---T
270		12.5×16	0.182	820	EBH1HM271W16---T
330		10×20	0.156	1030	EBH1HM331G20---T
390		14.5×15	0.156	870	EBH1HM391X15---T
430		10×25	0.072	1390	EBH1HM431G25---T
510		12.5×20	0.064	1130	EBH1HM511W20---T

WV (V _{dc})	Cap (μF)	Size ΦDxL (mm)	Impedance (Ω _{max} /20°C, 100kHz)	Rated ripple current (mA _{RMS} /125°C, 100kHz)	Part Number	
50	560	10×30	0.053	1610	EBH1HM561G30---T	
	560	16×15	0.143	950	EBH1HM561L15---T	
	680	14.5×20	0.049	1280	EBH1HM681X20---T	
	750	12.5×25	0.049	1620	EBH1HM751W25---T	
	750	18×15	0.111	1090	EBH1HM751M15---T	
	910	16×20	0.048	1390	EBH1HM911L20---T	
	1000	12.5×30	0.040	2010	EBH1HM102W30---T	
	1000	14.5×25	0.040	1980	EBH1HM102X25---T	
	1200	12.5×35	0.035	2320	EBH1HM122W35---T	
	1200	18×20	0.047	1460	EBH1HM122M20---T	
	1300	14.5×30	0.034	2290	EBH1HM132X30---T	
	1300	16×35	0.035	2150	EBH1HM132L35---T	
	1500	12.5×40	0.030	2610	EBH1HM152W40---T	
	1500	14.5×35	0.030	2520	EBH1HM152X35---T	
	1600	16×30	0.030	2520	EBH1HM162L30---T	
	1800	18×25	0.033	2320	EBH1HM182M25---T	
	2000	14.5×40	0.026	2840	EBH1HM202X40---T	
	2000	16×35	0.026	2780	EBH1HM202L35---T	
	2200	18×30	0.027	2660	EBH1HM222M30---T	
	2400	16×40	0.023	3040	EBH1HM242L40---T	
	2700	18×35	0.025	2870	EBH1HM272M35---T	
	3300	18×40	0.022	3080	EBH1HM332M40---T	
	63	390	12.5×20	0.126	1050	EBH1JM391W20---T
		510	12.5×25	0.094	1500	EBH1JM511W25---T
		510	14.5×20	0.094	1210	EBH1JM511X20---T
		620	16×20	0.081	1300	EBH1JM621L20---T
		680	12.5×30	0.068	1920	EBH1JM681W30---T
		680	14.5×25	0.070	1700	EBH1JM681X25---T
		820	12.5×35	0.057	2210	EBH1JM821W35---T
		820	18×20	0.072	1400	EBH1JM821M20---T
910		14.5×30	0.055	2160	EBH1JM911X30---T	
910		16×25	0.061	1840	EBH1JM911L25---T	
1000		12.5×40	0.049	2460	EBH1JM102W40---T	
1100		14.5×35	0.048	2350	EBH1JM112X35---T	
1100		16×30	0.048	2350	EBH1JM112L30---T	
1200		18×25	0.057	1950	EBH1JM122M25---T	
1300		14.5×40	0.042	2680	EBH1JM132X40---T	
80	1300	16×35	0.040	2570	EBH1JM132L35---T	
	1500	18×30	0.048	2480	EBH1JM152M30---T	
	1800	16×40	0.036	2870	EBH1JM182L40---T	
	2000	18×35	0.036	2760	EBH1JM202M35---T	
	2400	18×40	0.030	2950	EBH1JM242M40---T	
	240	12.5×20	0.126	1050	EBH1BM241W20---T	
	330	12.5×25	0.094	1500	EBH1BM331W25---T	
	330	14.5×20	0.094	1210	EBH1BM331X20---T	
	390	16×20	0.081	1300	EBH1BM391L20---T	
	430	12.5×30	0.068	1920	EBH1BM431W30---T	
	470	14.5×25	0.070	1700	EBH1BM471X25---T	
	560	12.5×35	0.057	2210	EBH1BM561W35---T	
	560	16×25	0.061	1840	EBH1BM561L25---T	
	560	18×20	0.072	1400	EBH1BM561M20---T	
	620	12.5×40	0.049	2460	EBH1BM621W40---T	
620	14.5×30	0.055	2160	EBH1BM621X30---T		
680	14.5×35	0.048	2350	EBH1BM681X35---T		
680	16×30	0.048	2350	EBH1BM681L30---T		
750	18×25	0.057	1950	EBH1BM751M25---T		
820	14.5×40	0.042	2680	EBH1BM821X40---T		
910	16×35	0.040	2570	EBH1BM911L35---T		
910	18×30	0.048	2480	EBH1BM911M30---T		
1100	16×40	0.036	2870	EBH1BM112L40---T		
1300	18×35	0.036	2760	EBH1BM132M35---T		
1500	18×40	0.030	2950	EBH1BM152M40---T		

Radial Type

BH series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	Impedance (Ω _{max} /20°C, 100kHz)	Rated ripple current (mA _{rms} /125°C, 100kHz)	Part Number
100	130	12.5×20	0.156	970	EBH1KM131W20---T
	180	14.5×20	0.107	1160	EBH1KM181X20---T
	200	12.5×25	0.107	1440	EBH1KM201W25---T
	240	12.5×30	0.081	1830	EBH1KM241W30---T
	240	16×20	0.092	1260	EBH1KM241L20---T
	270	14.5×25	0.083	1640	EBH1KM271X25---T
	330	12.5×35	0.066	2140	EBH1KM331W35---T
	330	16×25	0.074	1750	EBH1KM331L25---T
	330	18×20	0.090	1350	EBH1KM331M20---T
	360	14.5×30	0.065	2090	EBH1KM361X30---T
	390	12.5×40	0.057	2370	EBH1KM391W40---T
	390	14.5×35	0.057	2280	EBH1KM391X35---T
	390	16×30	0.057	2210	EBH1KM391L30---T
	430	18×25	0.070	1850	EBH1KM431M25---T
	510	14.5×40	0.049	2580	EBH1KM511X40---T
	510	16×35	0.048	2410	EBH1KM511L35---T
	560	18×30	0.056	2260	EBH1KM561M30---T
	620	16×40	0.042	2650	EBH1KM621L40---T
680	18×35	0.044	2560	EBH1KM681M35---T	
820	18×40	0.038	2730	EBH1KM821M40---T	
160	47	10×20	-	378	EBH2CM470G20---T
	68	12.5×20	-	426	EBH2CM680W20---T
	82	12.5×20	-	513	EBH2CM820W20---T
	100	12.5×25	-	710	EBH2CM101W25---T
	100	16×20	-	824	EBH2CM101L20---T
	150	16×25	-	790	EBH2CM151L25---T
	220	18×30	-	1330	EBH2CM221M30---T
200	33	10×20	-	381	EBH2DM330G20---T
	47	10×25	-	500	EBH2DM470G25---T
	47	12.5×20	-	476	EBH2DM470W20---T
	68	16×20	-	637	EBH2DM680L20---T
	82	16×25	-	782	EBH2DM820L25---T
	82	18×20	-	768	EBH2DM820M20---T
	100	16×25	-	955	EBH2DM101L25---T
	100	18×20	-	938	EBH2DM101M20---T
	150	18×25	-	980	EBH2DM151M25---T
250	22	10×20	-	328	EBH2EM220G20---T
	33	10×25	-	407	EBH2EM330G25---T
	33	12.5×20	-	388	EBH2EM330W20---T
	47	10×30	-	457	EBH2EM470G30---T
	47	12.5×25	-	516	EBH2EM470W25---T
	68	16×25	-	677	EBH2EM680L25---T
	68	18×20	-	665	EBH2EM680M20---T
	82	18×20	-	768	EBH2EM820M20---T
	100	18×25	-	846	EBH2EM101M25---T
350	15	10×18	-	197	EBH2VM150G18---T
	15	12.5×16	-	208	EBH2VM150W16---T
	22	12.5×20	-	280	EBH2VM220W20---T
	33	12.5×25	-	344	EBH2VM330W25---T
	33	16×20	-	361	EBH2VM330L20---T
	47	16×25	-	526	EBH2VM470L25---T
	47	18×20	-	494	EBH2VM470M20---T
68	18×25	-	624	EBH2VM680M25---T	
400	10	10×20	-	151	EBH2GM100G20---T
	12	10×20	-	165	EBH2GM120G20---T
	15	10×25	-	214	EBH2GM150G25---T
	15	12.5×20	-	245	EBH2GM150W20---T
	22	12.5×25	-	355	EBH2GM220W25---T
	22	16×18	-	342	EBH2GM220L18---T
	33	16×20	-	405	EBH2GM330L20---T
	47	18×25	-	500	EBH2GM470M25---T
68	18×30	-	716	EBH2GM680M30---T	

※ Specifications subject to change without notice.