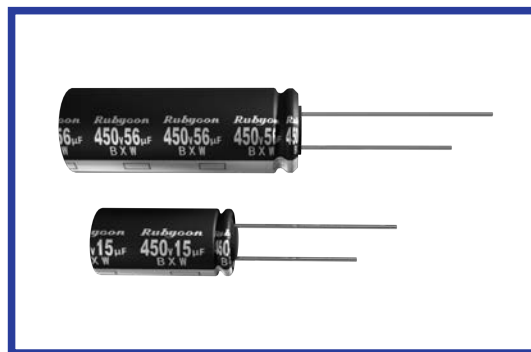


BXW series

105°C長寿命(10000~12000時間)小形化品 -40°C対応
105°C 10000~12000 hours, Miniaturized, -40°C~+105°C



◆規格表/SPECIFICATIONS

項目 Item	特性 Characteristics														
カテゴリ温度範囲 Category Temperature Range	-40~+105°C														
定格電圧範囲 Rated Voltage Range	160~450Vdc														
静電容量許容差 Capacitance Tolerance	±20%(20°C, 120Hz)														
漏れ電流 Leakage Current (MAX)	$I=3\sqrt{CV}$ (定格電圧印加5分後) $I=3\sqrt{CV}$ (After 5 minutes application of rated voltage) I=漏れ電流(μA) C=静電容量(μF) V=定格電圧(Vdc) Leakage Current Capacitance Rated Voltage														
損失角の正接(tan δ) Dissipation Factor (MAX)	<table border="1"> <tr> <td>定格電圧 (Vdc) Rated Voltage</td> <td>160~400</td> <td>420, 450</td> </tr> <tr> <td>tan δ</td> <td>0.20</td> <td>0.25</td> </tr> </table> (20°C, 120Hz)	定格電圧 (Vdc) Rated Voltage	160~400	420, 450	tan δ	0.20	0.25								
定格電圧 (Vdc) Rated Voltage	160~400	420, 450													
tan δ	0.20	0.25													
耐久性 Endurance	105°C中で右表の時間定格電圧(リップル重畳)印加後、下記項目を満足すること。 After applying rated voltage with rated ripple current for specified time at 105°C, the capacitors shall meet the following requirements.	<table border="1"> <tr> <td>静電容量変化率 Capacitance Change</td> <td>初期値の ±20% 以内 Within ±20% of the initial value.</td> </tr> <tr> <td>損失角の正接 Dissipation Factor</td> <td>規格値の 200% 以下 Not more than 200% of the specified value.</td> </tr> <tr> <td>漏れ電流 Leakage Current</td> <td>規格値以下 Not more than the specified value.</td> </tr> </table>	静電容量変化率 Capacitance Change	初期値の ±20% 以内 Within ±20% of the initial value.	損失角の正接 Dissipation Factor	規格値の 200% 以下 Not more than 200% of the specified value.	漏れ電流 Leakage Current	規格値以下 Not more than the specified value.	<table border="1"> <tr> <td>ケースサイズ Case Size</td> <td>時間(hrs) Time(hrs)</td> </tr> <tr> <td>L ≤ 20</td> <td>10000</td> </tr> <tr> <td>L ≥ 25</td> <td>12000</td> </tr> </table>	ケースサイズ Case Size	時間(hrs) Time(hrs)	L ≤ 20	10000	L ≥ 25	12000
静電容量変化率 Capacitance Change	初期値の ±20% 以内 Within ±20% of the initial value.														
損失角の正接 Dissipation Factor	規格値の 200% 以下 Not more than 200% of the specified value.														
漏れ電流 Leakage Current	規格値以下 Not more than the specified value.														
ケースサイズ Case Size	時間(hrs) Time(hrs)														
L ≤ 20	10000														
L ≥ 25	12000														
低温特性 Low Temperature Stability (インピーダンス比) Impedance Ratio (MAX)	<table border="1"> <tr> <td>定格電圧 (Vdc) Rated Voltage</td> <td>160~250</td> <td>350, 400</td> <td>420, 450</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>3</td> <td>5</td> <td>6</td> </tr> <tr> <td>Z(-40°C)/Z(+20°C)</td> <td>6</td> <td>6</td> <td>10</td> </tr> </table> (120Hz)	定格電圧 (Vdc) Rated Voltage	160~250	350, 400	420, 450	Z(-25°C)/Z(+20°C)	3	5	6	Z(-40°C)/Z(+20°C)	6	6	10		
定格電圧 (Vdc) Rated Voltage	160~250	350, 400	420, 450												
Z(-25°C)/Z(+20°C)	3	5	6												
Z(-40°C)/Z(+20°C)	6	6	10												

◆呼称方法/PART NUMBER

BXW M D x L
 定格電圧 シリーズ名 静電容量 静電容量許容差 副記号 リード加工記号 ケースサイズ
 Rated Voltage Series Capacitance Capacitance Tolerance Option Lead Forming Case Size

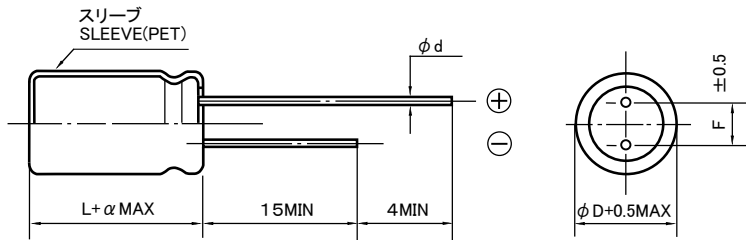
◆リップル電流補正係数/
MULTIPLIER FOR RIPPLE CURRENT

周波数 (Hz) Frequency	60(50)	120	500	1k	10k	100k ≤
10~82 μF	0.80	1.00	1.30	1.50	2.10	2.50
100~220 μF	0.80	1.00	1.30	1.50	2.00	2.25
270~820 μF	0.80	1.00	1.30	1.50	1.90	2.00

◆副記号/OPTION

EFR : PETスリーブ PET Sleeve

◆寸法図／DIMENSIONS



	(mm)				
ϕD	10	12.5	14.5	16	18
ϕd	0.6		0.8		
F	5.0		7.5		
α	2.0				

◆標準品一覧表／STANDARD SIZE

Rated Ripple Current (A r.m.s./105°C)

定格電圧 Rated Voltage (Vdc)	静電容量 Capacitance (μF)	外形寸法 Size $\phi D \times L$ (mm)	定格リプル電流 Rated Ripple Current	
			120Hz	100kHz
160	47	10x16	0.260	0.650
	68	10x20	0.320	0.800
	82	16x16	0.540	1.350
	100	10x25	0.530	1.193
	100	12.5x20	0.600	1.350
	100	18x16	0.690	1.553
	120	10x30	0.620	1.395
	150	10x35	0.700	1.575
	150	12.5x25	0.730	1.643
	150	14.5x20	0.800	1.800
	180	10x40	0.800	1.800
	180	12.5x30	0.870	1.958
	180	16x20	0.800	1.800
	220	10x50	1.000	2.250
	220	12.5x35	1.000	2.250
	220	14.5x25	0.890	2.003
	220	18x20	0.990	2.228
	270	12.5x40	1.120	2.240
	270	14.5x30	1.100	2.200
	270	16x25	1.000	2.000
	330	12.5x45	1.240	2.480
	330	14.5x35	1.220	2.440
	330	16x30	1.200	2.400
	330	18x25	1.180	2.360
390	14.5x40	1.380	2.760	
390	16x35	1.380	2.760	
470	14.5x45	1.520	3.040	
470	16x40	1.550	3.100	
470	18x30	1.550	3.100	
560	16x45	1.760	3.520	
560	18x35	1.740	3.480	
680	18x40	2.000	4.000	
820	18x50	2.230	4.460	
200	33	10x16	0.260	0.650
	47	10x20	0.320	0.800
	56	16x16	0.540	1.350
	68	10x25	0.430	1.075
	68	12.5x20	0.540	1.350
	82	10x30	0.500	1.250
	82	18x16	0.620	1.550
	100	10x35	0.640	1.440
	100	14.5x20	0.580	1.305
	120	10x40	0.740	1.665
	120	12.5x25	0.650	1.463
	120	16x20	0.800	1.800
	150	10x45	0.780	1.755
	150	12.5x30	0.800	1.800
	150	14.5x25	0.790	1.778
	180	12.5x35	0.920	2.070
	180	14.5x30	0.950	2.138

定格電圧 Rated Voltage (Vdc)	静電容量 Capacitance (μF)	外形寸法 Size $\phi D \times L$ (mm)	定格リプル電流 Rated Ripple Current		
			120Hz	100kHz	
200	180	16x25	0.900	2.025	
	180	18x20	1.000	2.250	
	220	12.5x40	1.050	2.363	
	220	14.5x35	1.090	2.453	
	220	16x30	1.080	2.430	
	270	12.5x50	1.260	2.520	
	270	14.5x40	1.260	2.520	
	270	16x30	1.180	2.360	
	270	18x25	1.100	2.200	
	330	14.5x45	1.370	2.740	
	330	16x40	1.430	2.860	
	330	18x30	1.300	2.600	
	390	14.5x50	1.480	2.960	
	390	16x45	1.550	3.100	
	390	18x35	1.430	2.860	
	470	16x50	1.680	3.360	
	470	18x40	1.620	3.240	
	560	18x45	1.770	3.540	
	220	33	10x16	0.240	0.600
		47	10x20	0.300	0.750
		56	10x25	0.400	1.000
		68	12.5x20	0.480	1.200
		82	10x30	0.500	1.250
		100	10x35	0.640	1.440
100		12.5x25	0.620	1.395	
100		14.5x20	0.600	1.350	
120		10x45	0.750	1.688	
120		12.5x30	0.740	1.665	
120		14.5x25	0.750	1.688	
120		16x20	0.680	1.530	
150		12.5x35	0.880	1.980	
150		18x20	0.830	1.868	
180		12.5x40	1.020	2.295	
180		14.5x30	0.910	2.048	
180		16x25	0.900	2.025	
220		12.5x45	1.050	2.363	
220		14.5x35	1.040	2.340	
220		16x30	1.030	2.318	
220		18x25	0.990	2.228	
270		14.5x45	1.300	2.600	
270		16x35	1.190	2.380	
270		18x30	1.170	2.340	
330	14.5x50	1.410	2.820		
330	16x40	1.360	2.720		
330	18x35	1.350	2.700		
390	16x45	1.480	2.960		
390	18x40	1.550	3.100		
470	18x45	1.690	3.380		
560	18x50	1.800	3.600		

◆標準品一覧表 / STANDARD SIZE

定格電圧 Rated Voltage (Vdc)	静電容量 Capacitance (μ F)	外形寸法 Size ϕ D \times L (mm)	定格リプル電流 Rated Ripple Current	
			120Hz	100kHz
250	27	10 \times 16	0.260	0.650
	39	10 \times 20	0.320	0.800
	47	10 \times 25	0.390	0.975
	47	16 \times 16	0.540	1.350
	56	12.5 \times 20	0.540	1.350
	56	18 \times 16	0.620	1.550
	68	10 \times 30	0.500	1.250
	82	10 \times 35	0.570	1.425
	82	12.5 \times 25	0.570	1.425
	82	14.5 \times 20	0.500	1.250
	100	10 \times 45	0.720	1.620
	100	12.5 \times 30	0.690	1.553
	100	16 \times 20	0.800	1.800
	120	10 \times 50	0.780	1.755
	120	12.5 \times 35	0.790	1.778
	120	14.5 \times 25	0.750	1.688
	120	18 \times 20	1.000	2.250
	150	12.5 \times 40	0.920	2.070
	150	14.5 \times 30	0.830	1.868
	150	16 \times 25	0.840	1.890
	180	12.5 \times 45	0.970	2.183
	180	14.5 \times 35	0.960	2.160
	180	16 \times 30	0.950	2.138
	180	18 \times 25	0.920	2.070
	220	14.5 \times 40	1.110	2.498
	220	16 \times 35	1.100	2.475
	220	18 \times 30	1.100	2.475
	270	14.5 \times 50	1.300	2.600
	270	16 \times 40	1.270	2.540
	270	18 \times 35	1.260	2.520
330	16 \times 50	1.480	2.960	
330	18 \times 40	1.450	2.900	
390	18 \times 45	1.590	3.180	
470	18 \times 50	1.830	3.660	
350	18	10 \times 16	0.160	0.400
	22	10 \times 20	0.200	0.500
	27	16 \times 16	0.310	0.775
	33	10 \times 25	0.330	0.825
	33	12.5 \times 20	0.340	0.850
	33	18 \times 16	0.380	0.950
	39	10 \times 30	0.390	0.975
	47	10 \times 35	0.450	1.125
	47	12.5 \times 25	0.450	1.125
	47	14.5 \times 20	0.420	1.050
	56	10 \times 40	0.520	1.300
	56	12.5 \times 30	0.550	1.375
	56	16 \times 20	0.480	1.200
	68	10 \times 50	0.600	1.500
	68	12.5 \times 35	0.610	1.525
	68	14.5 \times 25	0.560	1.400
	82	12.5 \times 40	0.710	1.775
	82	14.5 \times 30	0.670	1.675
	82	16 \times 25	0.650	1.625
	82	18 \times 20	0.520	1.300
	100	12.5 \times 45	0.790	1.778
	100	14.5 \times 35	0.780	1.755
	100	16 \times 30	0.770	1.733
	100	18 \times 25	0.760	1.710
	120	12.5 \times 50	0.850	1.913
	120	14.5 \times 40	0.900	2.025

Rated Ripple Current (A r.m.s./105°C)

定格電圧 Rated Voltage (Vdc)	静電容量 Capacitance (μ F)	外形寸法 Size ϕ D \times L (mm)	定格リプル電流 Rated Ripple Current		
			120Hz	100kHz	
350	120	16 \times 35	0.890	2.003	
	150	14.5 \times 45	0.970	2.183	
	150	16 \times 40	1.000	2.250	
	150	18 \times 30	0.900	2.025	
	180	16 \times 45	1.120	2.520	
	180	18 \times 35	1.040	2.340	
	220	18 \times 40	1.200	2.700	
	270	18 \times 50	1.400	2.800	
	400	12	10 \times 16	0.160	0.400
		18	10 \times 20	0.220	0.550
		18	16 \times 16	0.230	0.575
		22	10 \times 25	0.240	0.600
27		10 \times 25	0.290	0.725	
27		12.5 \times 20	0.340	0.850	
27		18 \times 16	0.380	0.950	
33		10 \times 30	0.340	0.850	
39		10 \times 35	0.390	0.975	
39		12.5 \times 25	0.390	0.975	
39		14.5 \times 20	0.360	0.900	
47		10 \times 40	0.440	1.100	
47		12.5 \times 30	0.455	1.138	
47		16 \times 20	0.470	1.175	
56		10 \times 45	0.500	1.250	
56		12.5 \times 30	0.495	1.238	
56		12.5 \times 35	0.525	1.313	
56		14.5 \times 25	0.495	1.238	
56		16 \times 20	0.480	1.200	
56		18 \times 20	0.520	1.300	
68		12.5 \times 35	0.570	1.425	
68		12.5 \times 40	0.600	1.500	
68		14.5 \times 30	0.585	1.463	
68		16 \times 25	0.570	1.425	
68		18 \times 20	0.530	1.325	
82		12.5 \times 40	0.650	1.625	
82		12.5 \times 45	0.680	1.700	
82		14.5 \times 35	0.670	1.675	
82		16 \times 30	0.670	1.675	
82		18 \times 25	0.640	1.600	
100	12.5 \times 50	0.760	1.710		
100	14.5 \times 40	0.760	1.710		
100	14.5 \times 45	0.785	1.766		
100	16 \times 30	0.710	1.598		
100	16 \times 35	0.760	1.710		
100	18 \times 25	0.710	1.598		
120	14.5 \times 45	0.840	1.890		
120	14.5 \times 50	0.875	1.969		
120	16 \times 35	0.810	1.823		
120	16 \times 40	0.860	1.935		
120	18 \times 30	0.840	1.890		
120	18 \times 35	0.870	1.958		
150	16 \times 45	0.950	2.138		
150	16 \times 50	0.995	2.239		
150	18 \times 35	0.920	2.070		
150	18 \times 40	0.985	2.216		
180	16 \times 50	1.070	2.408		
180	18 \times 40	1.040	2.340		
180	18 \times 45	1.095	2.464		
220	18 \times 50	1.220	2.745		

◆標準品一覧表 / STANDARD SIZE

Rated Ripple Current (A r.m.s./105°C)

定格電圧 Rated Voltage (Vdc)	静電容量 Capacitance (μ F)	外形寸法 Size ϕ D \times L (mm)	定格リプル電流 Rated Ripple Current	
			120Hz	100kHz
420	15	10 \times 20	0.190	0.475
	18	10 \times 25	0.230	0.575
	22	10 \times 25	0.250	0.625
	27	10 \times 30	0.290	0.725
	27	12.5 \times 20	0.300	0.750
	27	12.5 \times 25	0.340	0.850
	33	10 \times 35	0.340	0.850
	33	12.5 \times 25	0.350	0.875
	33	12.5 \times 30	0.400	1.000
	33	14.5 \times 20	0.350	0.875
	39	10 \times 40	0.390	0.975
	39	14.5 \times 25	0.435	1.088
	39	16 \times 20	0.400	1.000
	47	10 \times 45	0.440	1.100
	47	12.5 \times 30	0.440	1.100
	47	12.5 \times 35	0.505	1.263
	47	14.5 \times 25	0.450	1.125
	47	16 \times 25	0.440	1.100
	56	12.5 \times 35	0.510	1.275
	56	12.5 \times 40	0.570	1.425
	56	14.5 \times 30	0.560	1.400
	56	16 \times 25	0.510	1.275
	56	18 \times 20	0.480	1.200
	68	12.5 \times 45	0.600	1.500
	68	12.5 \times 50	0.670	1.675
	68	14.5 \times 35	0.640	1.600
	68	16 \times 30	0.560	1.400
	68	18 \times 25	0.615	1.538
	82	12.5 \times 50	0.690	1.725
	82	14.5 \times 40	0.680	1.700
	82	14.5 \times 45	0.750	1.875
	82	16 \times 30	0.640	1.600
	82	16 \times 35	0.690	1.725
	82	18 \times 25	0.640	1.600
	82	18 \times 30	0.730	1.825
	100	14.5 \times 45	0.790	1.778
	100	14.5 \times 50	0.845	1.901
	100	16 \times 35	0.730	1.643
	100	16 \times 40	0.800	1.800
	100	18 \times 30	0.780	1.755
	100	18 \times 35	0.835	1.879
	120	16 \times 40	0.840	1.890
120	16 \times 45	0.920	2.070	
120	18 \times 35	0.850	1.913	
120	18 \times 40	0.930	2.093	
150	16 \times 50	0.940	2.115	
150	18 \times 40	1.000	2.250	
150	18 \times 45	1.060	2.385	
180	18 \times 45	1.100	2.475	
450	10	10 \times 16	0.130	0.325
	15	10 \times 20	0.190	0.475
	15	16 \times 16	0.210	0.525
	18	10 \times 25	0.230	0.575
	22	10 \times 30	0.270	0.675
	22	12.5 \times 20	0.280	0.700
	22	18 \times 16	0.340	0.850
	27	10 \times 35	0.320	0.800
	27	12.5 \times 25	0.340	0.850
	27	14.5 \times 20	0.335	0.838
33	10 \times 40	0.360	0.900	

定格電圧 Rated Voltage (Vdc)	静電容量 Capacitance (μ F)	外形寸法 Size ϕ D \times L (mm)	定格リプル電流 Rated Ripple Current	
			120Hz	100kHz
450	33	12.5 \times 25	0.360	0.900
	33	12.5 \times 30	0.400	1.000
	33	14.5 \times 25	0.400	1.000
	39	10 \times 45	0.410	1.025
	39	12.5 \times 30	0.430	1.075
	39	12.5 \times 35	0.460	1.150
	39	14.5 \times 25	0.430	1.075
	39	16 \times 20	0.400	1.000
	47	12.5 \times 35	0.480	1.200
	47	12.5 \times 40	0.525	1.313
	47	14.5 \times 30	0.515	1.288
	47	16 \times 25	0.500	1.250
	47	18 \times 20	0.460	1.150
	56	12.5 \times 40	0.540	1.350
	56	12.5 \times 45	0.590	1.475
	56	14.5 \times 30	0.540	1.350
	56	14.5 \times 35	0.580	1.450
	56	16 \times 25	0.530	1.325
	56	16 \times 30	0.585	1.463
	56	18 \times 25	0.560	1.400
	68	12.5 \times 45	0.610	1.525
	68	12.5 \times 50	0.670	1.675
	68	14.5 \times 35	0.620	1.550
	68	14.5 \times 40	0.660	1.650
	68	16 \times 30	0.610	1.525
	68	16 \times 35	0.660	1.650
	68	18 \times 25	0.610	1.525
	82	14.5 \times 40	0.670	1.675
	82	14.5 \times 45	0.740	1.850
	82	16 \times 35	0.690	1.725
	82	16 \times 40	0.750	1.875
	82	18 \times 30	0.730	1.825
	100	14.5 \times 50	0.810	1.823
	100	16 \times 40	0.770	1.733
	100	16 \times 45	0.840	1.890
	100	18 \times 30	0.750	1.688
	100	18 \times 35	0.835	1.879
	120	16 \times 45	0.880	1.980
	120	18 \times 35	0.860	1.935
	120	18 \times 40	0.930	2.093
	150	18 \times 45	1.000	2.250
	150	18 \times 50	1.060	2.385
180	18 \times 50	1.100	2.475	

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