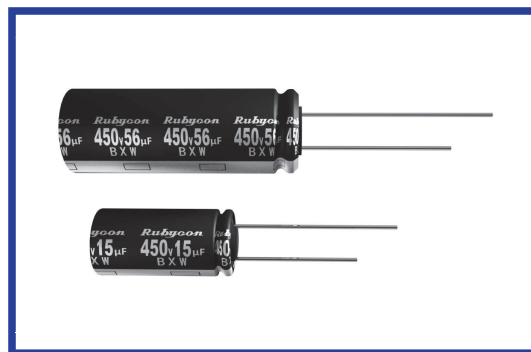


**BXW series**

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

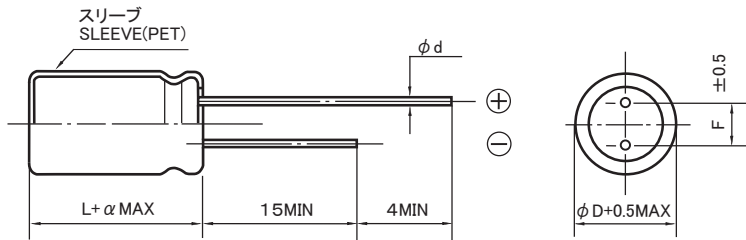
◆リップル電流補正係数/  
MULTIPLIER FOR RIPPLE CURRENT

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 φDxL (mm)	定格リプル電流 Rated Ripple Current	
			120Hz	100kHz
160	47	10×16	0.260	0.650
	68	10×20	0.320	0.800
	82	16×16	0.540	1.350
	100	10×25	0.530	1.193
	100	12.5×20	0.600	1.350
	100	18×16	0.690	1.553
	120	10×30	0.620	1.395
	150	10×35	0.700	1.575
	150	12.5×25	0.730	1.643
	150	14.5×20	0.800	1.800
	180	10×40	0.800	1.800
	180	12.5×30	0.870	1.958
	180	16×20	0.800	1.800
	220	10×50	1.000	2.250
	220	12.5×35	1.000	2.250
	220	14.5×25	0.890	2.003
	220	18×20	0.990	2.228
	270	12.5×40	1.120	2.240
	270	14.5×30	1.100	2.200
	270	16×25	1.000	2.000
	330	12.5×45	1.240	2.480
	330	14.5×35	1.220	2.440
	330	16×30	1.200	2.400
	330	18×25	1.180	2.360
390	14.5×40	1.380	2.760	
390	16×35	1.380	2.760	
470	14.5×45	1.520	3.040	
470	16×40	1.550	3.100	
470	18×30	1.550	3.100	
560	16×45	1.760	3.520	
560	18×35	1.740	3.480	
680	18×40	2.000	4.000	
820	18×50	2.230	4.460	
200	33	10×16	0.260	0.650
	47	10×20	0.320	0.800
	56	16×16	0.540	1.350
	68	10×25	0.430	1.075
	68	12.5×20	0.540	1.350
	82	10×30	0.500	1.250
	82	18×16	0.620	1.550
	100	10×35	0.640	1.440
	100	14.5×20	0.580	1.305
	120	10×40	0.740	1.665
	120	12.5×25	0.650	1.463
	120	16×20	0.800	1.800
	150	10×45	0.780	1.755
	150	12.5×30	0.800	1.800
	150	14.5×25	0.790	1.778
	180	12.5×35	0.920	2.070
	180	14.5×30	0.950	2.138

定格電圧 Rated Voltage (Vdc)	静電容量 Capacitance (μF)	外形寸法 Size φDxL (mm)	定格リプル電流 Rated Ripple Current		
			120Hz	100kHz	
200	180	16×25	0.900	2.025	
	180	18×20	1.000	2.250	
	220	12.5×40	1.050	2.363	
	220	14.5×35	1.090	2.453	
	220	16×30	1.080	2.430	
	270	12.5×50	1.260	2.520	
	270	14.5×40	1.260	2.520	
	270	16×30	1.180	2.360	
	270	18×25	1.100	2.200	
	330	14.5×45	1.370	2.740	
	330	16×40	1.430	2.860	
	330	18×30	1.300	2.600	
	390	14.5×50	1.480	2.960	
	390	16×45	1.550	3.100	
	390	18×35	1.430	2.860	
	470	16×50	1.680	3.360	
	470	18×40	1.620	3.240	
	560	18×45	1.770	3.540	
	220	33	10×16	0.240	0.600
		47	10×20	0.300	0.750
		56	10×25	0.400	1.000
		68	12.5×20	0.480	1.200
		82	10×30	0.500	1.250
		100	10×35	0.640	1.440
100		12.5×25	0.620	1.395	
100		14.5×20	0.600	1.350	
120		10×45	0.750	1.688	
120		12.5×30	0.740	1.665	
120		14.5×25	0.750	1.688	
120		16×20	0.680	1.530	
150		12.5×35	0.880	1.980	
150		18×20	0.830	1.868	
180		12.5×40	1.020	2.295	
180		14.5×30	0.910	2.048	
180		16×25	0.900	2.025	
220		12.5×45	1.050	2.363	
220		14.5×35	1.040	2.340	
220		16×30	1.030	2.318	
220		18×25	0.990	2.228	
270		14.5×45	1.300	2.600	
270		16×35	1.190	2.380	
270		18×30	1.170	2.340	
330		14.5×50	1.410	2.820	
330		16×40	1.360	2.720	
330		18×35	1.350	2.700	
390		16×45	1.480	2.960	
390		18×40	1.550	3.100	
470		18×45	1.690	3.380	
560		18×50	1.800	3.600	

◆標準品一覧表 / STANDARD SIZE

定格電圧 Rated Voltage (Vdc)	静電容量 Capacitance ( $\mu$ F)	外形寸法 Size $\phi$ DxL (mm)	定格リプル電流 Rated Ripple Current	
			120Hz	100kHz
250	27	10×16	0.260	0.650
	39	10×20	0.320	0.800
	47	10×25	0.390	0.975
	47	16×16	0.540	1.350
	56	12.5×20	0.540	1.350
	56	18×16	0.620	1.550
	68	10×30	0.500	1.250
	82	10×35	0.570	1.425
	82	12.5×25	0.570	1.425
	82	14.5×20	0.500	1.250
	100	10×45	0.720	1.620
	100	12.5×30	0.690	1.553
	100	16×20	0.800	1.800
	120	10×50	0.780	1.755
	120	12.5×35	0.790	1.778
	120	14.5×25	0.750	1.688
	120	18×20	1.000	2.250
	150	12.5×40	0.920	2.070
	150	14.5×30	0.830	1.868
	150	16×25	0.840	1.890
	180	12.5×45	0.970	2.183
	180	14.5×35	0.960	2.160
	180	16×30	0.950	2.138
	180	18×25	0.920	2.070
	220	14.5×40	1.110	2.498
	220	16×35	1.100	2.475
	220	18×30	1.100	2.475
	270	14.5×50	1.300	2.600
	270	16×40	1.270	2.540
	270	18×35	1.260	2.520
330	16×50	1.480	2.960	
330	18×40	1.450	2.900	
390	18×45	1.590	3.180	
470	18×50	1.830	3.660	
350	18	10×16	0.160	0.400
	22	10×20	0.200	0.500
	27	16×16	0.310	0.775
	33	10×25	0.330	0.825
	33	12.5×20	0.340	0.850
	33	18×16	0.380	0.950
	39	10×30	0.390	0.975
	47	10×35	0.450	1.125
	47	12.5×25	0.450	1.125
	47	14.5×20	0.420	1.050
	56	10×40	0.520	1.300
	56	12.5×30	0.550	1.375
	56	16×20	0.480	1.200
	68	10×50	0.600	1.500
	68	12.5×35	0.610	1.525
	68	14.5×25	0.560	1.400
	82	12.5×40	0.710	1.775
	82	14.5×30	0.670	1.675
	82	16×25	0.650	1.625
	82	18×20	0.520	1.300
	100	12.5×45	0.790	1.778
	100	14.5×35	0.780	1.755
	100	16×30	0.770	1.733
	100	18×25	0.760	1.710
	120	12.5×50	0.850	1.913
	120	14.5×40	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 ( $\mu$ F)	外形寸法 Size $\phi$ DxL (mm)	定格リプル電流 Rated Ripple Current		
			120Hz	100kHz	
350	120	16×35	0.890	2.003	
	150	14.5×45	0.970	2.183	
	150	16×40	1.000	2.250	
	150	18×30	0.900	2.025	
	180	16×45	1.120	2.520	
	180	18×35	1.040	2.340	
	220	18×40	1.200	2.700	
	270	18×50	1.400	2.800	
	400	12	10×16	0.160	0.400
		18	10×20	0.220	0.550
18		16×16	0.230	0.575	
22		10×25	0.240	0.600	
27		10×25	0.290	0.725	
27		12.5×20	0.340	0.850	
27		18×16	0.380	0.950	
33		10×30	0.340	0.850	
39		10×35	0.390	0.975	
39		12.5×25	0.390	0.975	
39		14.5×20	0.360	0.900	
47		10×40	0.440	1.100	
47		12.5×30	0.455	1.138	
47		16×20	0.470	1.175	
56		10×45	0.500	1.250	
56		12.5×30	0.495	1.238	
56		12.5×35	0.525	1.313	
56		14.5×25	0.495	1.238	
56		16×20	0.480	1.200	
56		18×20	0.520	1.300	
68		12.5×35	0.570	1.425	
68		12.5×40	0.600	1.500	
68		14.5×30	0.585	1.463	
68		16×25	0.570	1.425	
68		18×20	0.530	1.325	
82		12.5×40	0.650	1.625	
82		12.5×45	0.680	1.700	
82		14.5×35	0.670	1.675	
82		16×30	0.670	1.675	
82		18×25	0.640	1.600	
100		12.5×50	0.760	1.710	
100		14.5×40	0.760	1.710	
100		14.5×45	0.785	1.766	
100		16×30	0.710	1.598	
100		16×35	0.760	1.710	
100		18×25	0.710	1.598	
120		14.5×45	0.840	1.890	
120		14.5×50	0.875	1.969	
120		16×35	0.810	1.823	
120		16×40	0.860	1.935	
120	18×30	0.840	1.890		
120	18×35	0.870	1.958		
150	16×45	0.950	2.138		
150	16×50	0.995	2.239		
150	18×35	0.920	2.070		
150	18×40	0.985	2.216		
180	16×50	1.070	2.408		
180	18×40	1.040	2.340		
180	18×45	1.095	2.464		
220	18×50	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 ( $\mu$ F)	外形寸法 Size $\phi$ DxL (mm)	定格リプル電流 Rated Ripple Current	
			120Hz	100kHz
420	15	10×20	0.190	0.475
	18	10×25	0.230	0.575
	22	10×25	0.250	0.625
	27	10×30	0.290	0.725
	27	12.5×20	0.300	0.750
	27	12.5×25	0.340	0.850
	33	10×35	0.340	0.850
	33	12.5×25	0.350	0.875
	33	12.5×30	0.400	1.000
	33	14.5×20	0.350	0.875
	39	10×40	0.390	0.975
	39	14.5×25	0.435	1.088
	39	16×20	0.400	1.000
	47	10×45	0.440	1.100
	47	12.5×30	0.440	1.100
	47	12.5×35	0.505	1.263
	47	14.5×25	0.450	1.125
	47	16×25	0.440	1.100
	56	12.5×35	0.510	1.275
	56	12.5×40	0.570	1.425
	56	14.5×30	0.560	1.400
	56	16×25	0.510	1.275
	56	18×20	0.480	1.200
	68	12.5×45	0.600	1.500
	68	12.5×50	0.670	1.675
	68	14.5×35	0.640	1.600
	68	16×30	0.560	1.400
	68	18×25	0.615	1.538
	82	12.5×50	0.690	1.725
	82	14.5×40	0.680	1.700
	82	14.5×45	0.750	1.875
	82	16×30	0.640	1.600
	82	16×35	0.690	1.725
	82	18×25	0.640	1.600
	82	18×30	0.730	1.825
	100	14.5×45	0.790	1.778
	100	14.5×50	0.845	1.901
	100	16×35	0.730	1.643
	100	16×40	0.800	1.800
	100	18×30	0.780	1.755
	100	18×35	0.835	1.879
	120	16×40	0.840	1.890
120	16×45	0.920	2.070	
120	18×35	0.850	1.913	
120	18×40	0.930	2.093	
150	16×50	0.940	2.115	
150	18×40	1.000	2.250	
150	18×45	1.060	2.385	
180	18×45	1.100	2.475	
450	10	10×16	0.130	0.325
	15	10×20	0.190	0.475
	15	16×16	0.210	0.525
	18	10×25	0.230	0.575
	22	10×30	0.270	0.675
	22	12.5×20	0.280	0.700
	22	18×16	0.340	0.850
	27	10×35	0.320	0.800
	27	12.5×25	0.340	0.850
	27	14.5×20	0.335	0.838
33	10×40	0.360	0.900	

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