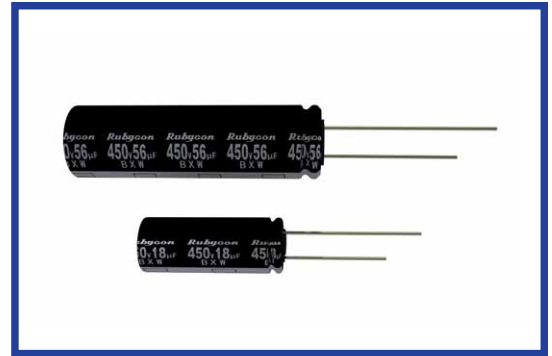


BXW SERIES

105°C Long Life (10000~12000 hours), Ultra Miniaturized

•Temperature Range : -40°C~+105°C

RoHS
compliance



SPECIFICATIONS

Items	Characteristics															
Category Temperature Range	-40~+105℃															
Rated Voltage Range	160~450Vdc															
Capacitance Tolerance	±20% (20℃,120Hz)															
Leakage Current(MAX)	I=3 √CV (After 5 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)															
Dissipation Factor(MAX) (tanδ)	<table><tr><td>Rated Voltage (Vdc)</td><td>160~400</td><td>420, 450</td></tr><tr><td>tanδ</td><td>0.20</td><td>0.25</td></tr></table>	Rated Voltage (Vdc)	160~400	420, 450	tanδ	0.20	0.25	(20℃,120Hz)								
Rated Voltage (Vdc)	160~400	420, 450														
tanδ	0.20	0.25														
Endurance	After applying rated voltage with rated ripple current for specified time at 105℃, the capacitors shall meet the following requirements. <table><tr><td>Capacitance Change</td><td>Within ±20% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td>Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td>Not more than the specified value.</td></tr></table>			Capacitance Change	Within ±20% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.	<table><tr><td>Case Size</td><td>Life Time (hrs)</td></tr><tr><td>L≤20</td><td>10000</td></tr><tr><td>L≥25</td><td>12000</td></tr></table>	Case Size	Life Time (hrs)	L≤20	10000	L≥25	12000
Capacitance Change	Within ±20% of the initial value.															
Dissipation Factor	Not more than 200% of the specified value.															
Leakage Current	Not more than the specified value.															
Case Size	Life Time (hrs)															
L≤20	10000															
L≥25	12000															
Low Temperature Stability Impedance Ratio(MAX)	<table><tr><td>Rated Voltage (Vdc)</td><td>160~250</td><td>350, 400</td><td>420, 450</td></tr><tr><td>Z (-25℃) / Z (20℃)</td><td>3</td><td>5</td><td>6</td></tr><tr><td>Z (-40℃) / Z (20℃)</td><td>6</td><td>6</td><td>10</td></tr></table>	Rated Voltage (Vdc)	160~250	350, 400	420, 450	Z (-25℃) / Z (20℃)	3	5	6	Z (-40℃) / Z (20℃)	6	6	10	(120Hz)		
Rated Voltage (Vdc)	160~250	350, 400	420, 450													
Z (-25℃) / Z (20℃)	3	5	6													
Z (-40℃) / Z (20℃)	6	6	10													

MULTIPLIER FOR RIPPLE CURRENT

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

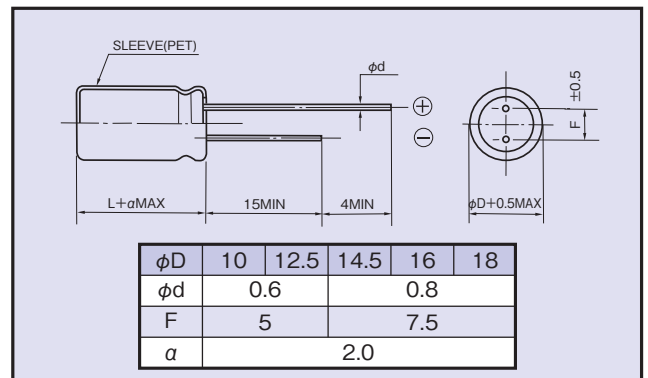
OPTION

	Code
PET Sleeve (-40~+105°C)	EFR ※

※PET Sleeve -25~+105°C(EFC) is also available, please consult our sales offices.

DIMENSIONS

(mm)



PART NUMBER

□□□ BXW □□□ M □□□ □□ DxL
 Rated Voltage Series Capacitance Capacitance Tolerance Option Lead Forming Case Size

◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L (mm)	Rated Ripple Current (A r.m.s./105°C)	
			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
	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

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L (mm)	Rated Ripple Current (A r.m.s./105°C)	
			120Hz	100kHz
200	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
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

◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L (mm)	Rated Ripple Current (A r.m.s./105°C)		Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L (mm)	Rated Ripple Current (A r.m.s./105°C)	
			120Hz	100kHz				120Hz	100kHz
250	180	14.5×35	0.960	2.160	400	47	16×20	0.470	1.175
	180	16×30	0.950	2.138		56	10×45	0.500	1.250
	180	18×25	0.920	2.070		56	12.5×30	0.495	1.238
	220	14.5×40	1.110	2.498		56	12.5×35	0.525	1.313
	220	16×35	1.100	2.475		56	14.5×25	0.495	1.238
	220	18×30	1.100	2.475		56	16×20	0.480	1.200
	270	14.5×50	1.300	2.600		56	18×20	0.520	1.300
	270	16×40	1.270	2.540		68	12.5×35	0.570	1.425
	270	18×35	1.260	2.520		68	12.5×40	0.600	1.500
	330	16×50	1.480	2.960		68	14.5×30	0.585	1.463
	330	18×40	1.450	2.900		68	16×25	0.570	1.425
	390	18×45	1.590	3.180		68	18×20	0.530	1.325
350	470	18×50	1.830	3.660		82	12.5×40	0.650	1.625
	18	10×16	0.160	0.400		82	12.5×45	0.680	1.700
	22	10×20	0.200	0.500		82	14.5×35	0.670	1.675
	27	16×16	0.310	0.775		82	16×30	0.670	1.675
	33	10×25	0.330	0.825		82	18×25	0.640	1.600
	33	12.5×20	0.340	0.850		100	12.5×50	0.760	1.710
	33	18×16	0.380	0.950		100	14.5×40	0.760	1.710
	39	10×30	0.390	0.975		100	14.5×45	0.785	1.766
	47	10×35	0.450	1.125		100	16×30	0.710	1.598
	47	12.5×25	0.450	1.125		100	16×35	0.760	1.710
	47	14.5×20	0.420	1.050		100	16×25	0.710	1.598
	56	10×40	0.520	1.300		120	18×25	0.710	1.598
	56	12.5×30	0.550	1.375		120	14.5×45	0.840	1.890
	56	16×20	0.480	1.200		120	14.5×50	0.875	1.969
	68	10×50	0.600	1.500		120	16×35	0.810	1.823
	68	12.5×35	0.610	1.525		120	16×40	0.860	1.935
	68	14.5×25	0.560	1.400		120	18×30	0.840	1.890
	82	12.5×40	0.710	1.775		120	18×35	0.870	1.958
	82	14.5×30	0.670	1.675		120	18×40	0.870	1.958
	82	16×25	0.650	1.625		150	16×45	0.950	2.138
	82	18×20	0.520	1.300		150	16×50	0.995	2.239
	100	12.5×45	0.790	1.778		150	18×35	0.920	2.070
	100	14.5×35	0.780	1.755		150	18×40	0.985	2.216
	100	16×30	0.770	1.733		180	16×50	1.070	2.408
	100	18×25	0.760	1.710		180	18×40	1.040	2.340
	120	12.5×50	0.850	1.913		180	18×45	1.095	2.464
	120	14.5×40	0.900	2.025		220	18×50	1.220	2.745
	120	16×35	0.890	2.003	420	15	10×20	0.190	0.475
	150	14.5×45	0.970	2.183		18	10×25	0.230	0.575
	150	16×40	1.000	2.250		22	10×25	0.250	0.625
	150	18×30	0.900	2.025		27	10×30	0.290	0.725
	180	16×45	1.120	2.520		27	12.5×20	0.300	0.750
	180	18×35	1.040	2.340		27	12.5×25	0.340	0.850
	220	18×40	1.200	2.700		33	10×35	0.340	0.850
	270	18×50	1.400	2.800		33	12.5×25	0.350	0.875
400	12	10×16	0.160	0.400		33	12.5×30	0.400	1.000
	18	10×20	0.220	0.550		33	14.5×20	0.350	0.875
	18	16×16	0.230	0.575		39	10×40	0.390	0.975
	22	10×25	0.240	0.600		39	14.5×25	0.435	1.088
	27	10×25	0.290	0.725		39	16×20	0.400	1.000
	27	12.5×20	0.340	0.850		47	10×45	0.440	1.100
	27	18×16	0.380	0.950		47	12.5×30	0.440	1.100
	33	10×30	0.340	0.850		47	12.5×35	0.505	1.263
	39	10×35	0.390	0.975		47	14.5×25	0.450	1.125
	39	12.5×25	0.390	0.975		47	16×25	0.440	1.100
	39	14.5×20	0.360	0.900		56	12.5×35	0.510	1.275
	47	10×40	0.440	1.100		56	12.5×40	0.570	1.425
	47	12.5×30	0.455	1.138		56	14.5×30	0.560	1.400
						56	16×25	0.510	1.275
						56	18×20	0.480	1.200

◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L (mm)	Rated Ripple Current (A r.m.s./105°C)	
			120Hz	100kHz
420	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
	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

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L (mm)	Rated Ripple Current (A r.m.s./105°C)	
			120Hz	100kHz
450	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