

BXC SERIES
UPGRADE
Load Life:105°C 8000~12000 hours.
◆ FEATURES

- High Ripple Current
- For Electronic Ballast
- RoHS compliance.


◆ SPECIFICATIONS

Items	Characteristics																	
Category Temperature Range	-25~+105°C																	
Rated Voltage Range	160~500V.DC																	
Capacitance Tolerance	±20% (20°C, 120Hz)																	
Leakage Current(MAX)	<table border="1"> <tr> <th>CV ≤1000</th> <th>CV >1000</th> </tr> <tr> <td>I=0.1CV+40µA (1minute)</td> <td>I=0.04CV+100µA (1minute)</td> </tr> <tr> <td>I=0.03CV+15µA (5minutes)</td> <td>I=0.02CV+25µA (5minutes)</td> </tr> </table>	CV ≤1000	CV >1000	I=0.1CV+40µA (1minute)	I=0.04CV+100µA (1minute)	I=0.03CV+15µA (5minutes)	I=0.02CV+25µA (5minutes)	I=Leakage Current(µA) C=Rated Capacitance(µF) V=Rated Voltage(V)										
	CV ≤1000	CV >1000																
I=0.1CV+40µA (1minute)	I=0.04CV+100µA (1minute)																	
I=0.03CV+15µA (5minutes)	I=0.02CV+25µA (5minutes)																	
(tanδ) Dissipation Factor(MAX)	<table border="1"> <tr> <th>Rated Voltage(V)</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> <th>500</th> </tr> <tr> <td>tan δ</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.24</td> </tr> </table>	Rated Voltage(V)	160	200	250	350	400	450	500	tan δ	0.15	0.15	0.15	0.20	0.20	0.20	0.24	(20°C, 120Hz)
Rated Voltage(V)	160	200	250	350	400	450	500											
tan δ	0.15	0.15	0.15	0.20	0.20	0.20	0.24											
Endurance	After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.																	
	<table border="1"> <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 border="1"> <tr> <th>Case Size</th> <th>Life Time</th> </tr> <tr> <td>8×11.5, 10×12.5</td> <td>8000</td> </tr> <tr> <td>10×16, 10×20</td> <td>10000</td> </tr> <tr> <td>φ D ≥ 12.5</td> <td>12000</td> </tr> </table> * 500WV:10000hrs	Case Size	Life Time	8×11.5, 10×12.5	8000	10×16, 10×20	10000	φ D ≥ 12.5	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																	
8×11.5, 10×12.5	8000																	
10×16, 10×20	10000																	
φ D ≥ 12.5	12000																	
Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <tr> <th>Rated Voltage(V)</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> <th>500</th> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td>3</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> </tr> </table>	Rated Voltage(V)	160	200	250	350	400	450	500	Z(-25°C)/Z(20°C)	3	3	3	6	6	6	6	(120Hz)
Rated Voltage(V)	160	200	250	350	400	450	500											
Z(-25°C)/Z(20°C)	3	3	3	6	6	6	6											

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

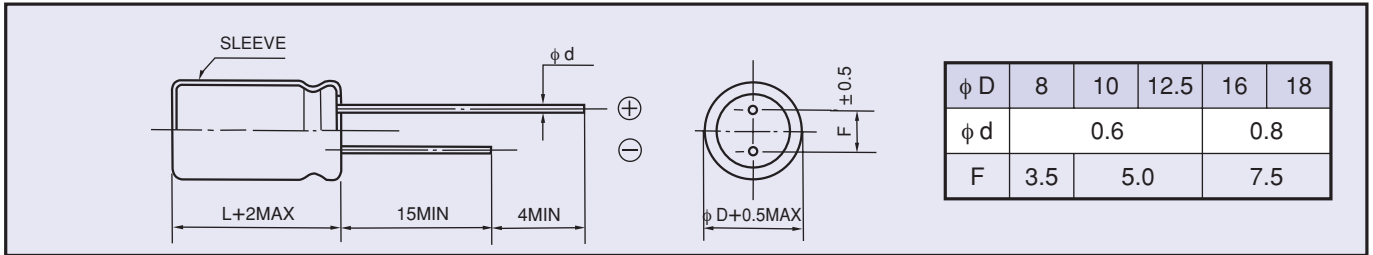
Frequency (Hz)		120	1k	10k	100k ≤
Coefficient	1~5.6 µF	0.2	0.4	0.8	1.0
	6.8~15 µF	0.3	0.6	0.9	1.0
	22~82 µF	0.4	0.7	0.9	1.0
	100~220 µF	0.45	0.75	0.9	1.0

◆ PART NUMBER

□□□	BXC	□□□□□	□	□□□	□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆ DIMENSIONS

(mm)


◆ STANDARD SIZE

 Size $\phi D \times L$ (mm), Ripple Current (mA r.m.s./105°C, 100kHz)

Cap(μ F)	WV (V.DC)	160(2C)		200(2D)		250(2E)		350(2V)	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4.7						8×11.5	160	10×12.5	150
5.6								10×12.5	180
6.8						10×12.5	250	10×16	280
10		10×16	320	10×16	320	10×16	320	10×20	350
22		10×20	500	10×20	500	10×16 10×20	470 500	12.5×20	650
33		10×20	650	10×20	650	12.5×16 12.5×20	760 800	16×20	900
47		10×20	750	12.5×20	980	12.5×20	980	16×20	1080
56						12.5×20 18×16	1080 960		
68		12.5×20	1180	12.5×25 16×20	1300	12.5×25 16×20	1300 1300	18×25	1470
82				16×20	1380	12.5×30 16×20	1500 1440	18×25	1530
100		12.5×25 16×20	1420	16×20	1420	16×25 18×20	1530 1440		
120						18×20	1500		
150		16×25	1890	16×25	1890	18×25	1960		
220		18×25	2370						

Cap(μ F)	WV (V.DC)	400(2G)		450(2W)		500(2H)	
		Size	Ripple	Size	Ripple	Size	Ripple
1		8×11.5 10×12.5	60 70				
1.5		8×11.5 10×12.5	90 100				
1.8		8×11.5 10×12.5	95 120				
2.2		8×11.5 10×12.5	95 140				
3.3		10×12.5 10×16	150 180				
4.7		10×16	220	10×16 10×20	180 220		
5.6		10×16	250	10×16 10×20	200 250		
6.8		10×16	280	10×16 10×20	230 280		
8.2				10×20	280		
10		10×20	350	10×20 12.5×16 12.5×20	330 360 450	12.5×20	320
15		12.5×20	550	12.5×20 12.5×25 16×16	450 600 600	12.5×25 16×20	440
22		12.5×25 16×20	760	12.5×25 16×20	600 730	12.5×35 16×25 18×20	560
33		16×20	900	16×20 16×25 18×20	730 980 780	16×31.5 18×25	700
47		16×25 18×20	1180	18×25	1200	18×31.5	880
68		18×25	1470				

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