

BXC SERIES

Load Life:105°C 5000~10000 Hours.

◆ FEATURES

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



◆ SPECIFICATIONS

Items	Characteristics																						
Category Temperature Range	-25~+105℃																						
Rated Voltage Range	160~450V.DC																						
Capacitance Tolerance	±20% (20℃, 120Hz)																						
Leakage Current(MAX)	<table><tr><th colspan="7">160~450V.DC</th></tr><tr><th colspan="4">CV≤1000</th><th colspan="3">CV>1000</th></tr><tr><td colspan="4">I=0.1CV+40μA (1minute) I=0.03CV+15μA (5minutes)</td><td colspan="3">I=0.04CV+100μA (1minute) I=0.02CV+25μA (5minutes)</td></tr></table>	160~450V.DC							CV≤1000				CV>1000			I=0.1CV+40μA (1minute) I=0.03CV+15μA (5minutes)				I=0.04CV+100μA (1minute) I=0.02CV+25μA (5minutes)			I=Leakage Current(μ A) C=Rated Capacitance(μ F) V=Rated Voltage(V)
160~450V.DC																							
CV≤1000				CV>1000																			
I=0.1CV+40μA (1minute) I=0.03CV+15μA (5minutes)				I=0.04CV+100μA (1minute) I=0.02CV+25μA (5minutes)																			
Dissipation Factor(MAX) (tan δ)	<table><tr><th>Rated Voltage (V)</th><th>160</th><th>200</th><th>250</th><th>350</th><th>400</th><th>450</th></tr><tr><th>tan δ</th><td>0.15</td><td>0.15</td><td>0.15</td><td>0.20</td><td>0.20</td><td>0.20</td></tr></table>	Rated Voltage (V)	160	200	250	350	400	450	tan δ	0.15	0.15	0.15	0.20	0.20	0.20	(20℃, 120Hz)							
Rated Voltage (V)	160	200	250	350	400	450																	
tan δ	0.15	0.15	0.15	0.20	0.20	0.20																	
Endurance	After life test with rated ripple current at conditions stated in the table below, 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> <table><tr><th>Size</th><th>Life Time (hrs)</th></tr><tr><td>8×11.5, 10×12.5</td><td>5000</td></tr><tr><td>10×16, 10×20</td><td>8000</td></tr><tr><td>φ D≥12.5</td><td>10000</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.	Size	Life Time (hrs)	8×11.5, 10×12.5	5000	10×16, 10×20	8000	φ D≥12.5	10000							
Capacitance Change	Within ±20% of the initial value.																						
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Size	Life Time (hrs)																						
8×11.5, 10×12.5	5000																						
10×16, 10×20	8000																						
φ D≥12.5	10000																						
Low Temperature Stability Impedance Ratio(MAX)	<table><tr><th>Rated Voltage (V)</th><th>160</th><th>200</th><th>250</th><th>350</th><th>400</th><th>450</th></tr><tr><th>Z(-25℃)/Z(20℃)</th><td>3</td><td>3</td><td>3</td><td>6</td><td>6</td><td>6</td></tr></table>	Rated Voltage (V)	160	200	250	350	400	450	Z(-25℃)/Z(20℃)	3	3	3	6	6	6	(120Hz)							
Rated Voltage (V)	160	200	250	350	400	450																	
Z(-25℃)/Z(20℃)	3	3	3	6	6	6																	

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

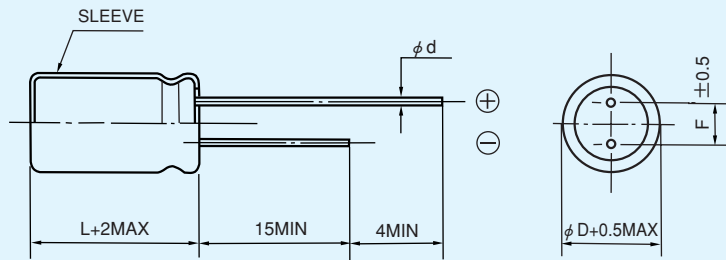
Frequency (Hz)		120	1k	10k	$\geq 100k$
Coefficient	1~4.7 μF	0.2	0.4	0.8	1.0
	6.8~15 μF	0.3	0.6	0.9	1.0
	22~82 μF	0.4	0.7	0.9	1.0
	100~220 μF	0.45	0.75	0.9	1.0

◆PART NUMBER

					
Rated Voltage	BXC Series	Rated Capacitance	Capacitance Tolerance	Option	DXL Case Size

◆DIMENSIONS

(mm)



ϕD	8	10	12.5	16	18
ϕd	0.6			0.8	
F	3.5	5.0		7.5	

◆STANDARD SIZE, RATED RIPPLE CURRENT

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

WV (V.DC) Cap (μF)	160V (2C)		200V (2D)		250V (2E)	
	Size	Ripple	Size	Ripple	Size	Ripple
4.7					8×11.5	160
6.8					10×12.5	250
10	10×16	320	10×16	320	10×16	320
22	10×20	500	10×20	500	10×20	500
33	10×20	650	10×20	650	12.5×20	800
47	10×20	750	12.5×20	980	12.5×20	980
68	12.5×20	1180	12.5×25 16×20	1300	16×20	1300
82			16×20	1380	16×20	1380
100	12.5×25 16×20	1420	16×20	1420	16×25	1530
150	16×25	1890	16×25	1890	18×25	1940
220	18×25	2370				

WV (V.DC) Cap (μF)	350V (2V)		400V (2G)		450V (2W)	
	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	10×12.5	150	10×16	220	10×20	220
5.6	10×12.5	180	10×16	250	10×20	250
6.8	10×16	280	10×16	280	10×20	280
10	10×20	350	10×20	350	12.5×20	450
15			12.5×20	550	12.5×25	600
22	12.5×20	650	12.5×25 16×20	760	16×20	730
33	16×20	900	16×20	900	16×25	980
47	16×20	1080	16×25 18×20	1180	18×25	1200
68	18×25	1470	18×25	1470		
82	18×25	1530				