

BXC SERIES

Load Life : 105°C 8000~12000 hours

◆FEATURES

- High Ripple Current.
- For LED Lighting.
- RoHS compliance.



◆SPECIFICATIONS

Items	Characteristics																																															
Category Temperature Range	-25~+105℃																																															
Rated Voltage Range	160~500Vdc																																															
Capacitance Tolerance	±20%(20℃,120Hz)																																															
Leakage Current(MAX)	<table><tr><th>CV≤1000</th><th colspan="7">CV>1000</th></tr><tr><td>I=0.1CV+40μA (1minute) I=0.03CV+15μA (5minutes)</td><td colspan="7">I=0.04CV+100μA (1minute) I=0.02CV+25μA (5minutes)</td></tr></table>								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 (μA) C=Capacitance (μF) V=Rated Voltage (Vdc)																							
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(tanδ) Dissipation Factor(MAX)	<table><tr><th>Rated Voltage (Vdc)</th><th>160</th><th>200</th><th>250</th><th>350</th><th>400</th><th>450</th><th>500</th></tr><tr><th>tanδ</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><td>0.24</td></tr></table>								Rated Voltage (Vdc)	160	200	250	350	400	450	500	tanδ	0.15	0.15	0.15	0.20	0.20	0.20	0.24	(20℃,120Hz)																							
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tanδ	0.15	0.15	0.15	0.20	0.20	0.20	0.24																																									
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 colspan="9">Within ±20% of the initial value.</td></tr><tr><td>Dissipation Factor</td><td colspan="9">Not more than 200% of the specified value.</td></tr><tr><td>Leakage Current</td><td colspan="9">Not more than the specified value.</td></tr></table> <table><tr><td>Case Size</td><td>Life Time (hrs)</td></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>φD≥12.5</td><td>12000</td></tr></table> ※500Vdc:10000hrs										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)	8×11.5, 10×12.5	8000	10×16, 10×20	10000	φD≥12.5	12000
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Low Temperature Stability Impedance Ratio(MAX)	<table><tr><th>Rated Voltage (Vdc)</th><th>160</th><th>200</th><th>250</th><th>350</th><th>400</th><th>450</th><th>500</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><td>6</td></tr></table>								Rated Voltage (Vdc)	160	200	250	350	400	450	500	Z(-25℃)/Z(20℃)	3	3	3	6	6	6	6	(120Hz)																							
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Z(-25℃)/Z(20℃)	3	3	3	6	6	6	6																																									

Case Size	Life Time (hrs)
8×11.5, 10×12.5	8000
10×16, 10×20	10000
φD ≥ 12.5	12000

※500Vdc:10000hrs

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	120	1k	10k	100k ≤
1~5.6μF	0.20	0.40	0.80	1.00
6.8~18μF	0.30	0.60	0.90	1.00
22~82μF	0.40	0.70	0.90	1.00
100~220μF	0.45	0.75	0.90	1.00

◆OPTION

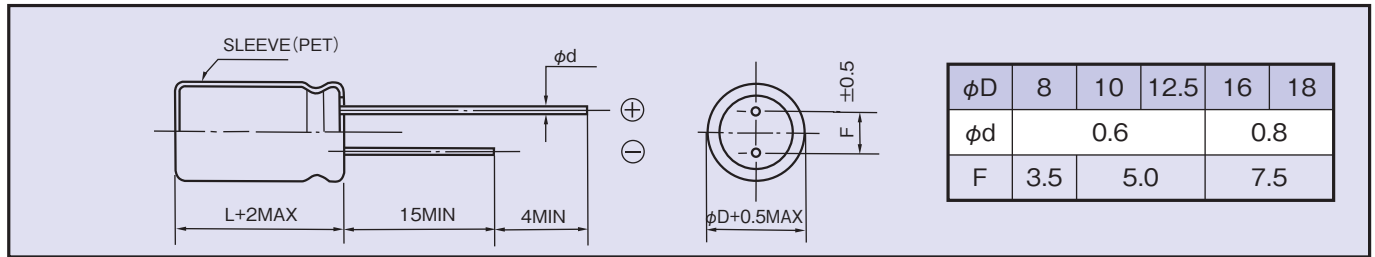
	Code
PET Sleeve	EFC

◆PART NUMBER

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

◆ **DIMENSIONS**

(mm)



◆ **STANDARD SIZE**

Size φD×L(mm), Rated Ripple Current (mA r.m.s./105°C, 100kHz)

Vdc Cap(μF)	160		200		250		350	
	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
18							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	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						

Vdc Cap(μF)	400		450		500	
	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	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				

AMEYA360

Components Supply Platform

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