

**BXQ Series**

- 105°C 2,000Hrs assured.

Solvent-proof

BXF

BXQ

Downsized

**SPECIFICATIONS**

Item	Characteristics						
Rated Voltage Range	6.3 ~ 50 V <sub>DC</sub>						
Operating Temperature Range	-55 ~ +105°C						
Capacitance Tolerance	$\pm 20\%$ (M) (at 20°C, 120Hz)						
Leakage Current	$I = 0.01CV(\mu A)$ or $3\mu A$ , whichever is greater. Where, I:Max. Leakage current( $\mu A$ ), C:Nominal capacitance( $\mu F$ ), V:Rated voltage( $V_{DC}$ ) (at 20°C, 2 minutes)						
Dissipation Factor(Tan $\delta$ )	Rated Voltage( $V_{DC}$ )	6.3	10	16	25	35	50
	Tan $\delta$ (Max.)	0.26	0.19	0.16	0.14	0.12	0.12
	(at 20°C, 120Hz)						
Temperature Characteristics (Max. Impedance ratio)	Rated voltage( $V_{DC}$ )	6.3	10	16	25	35	50
	Z(-25°C)/Z(+20°C)	2	2	2	2	2	2
	Z(-55°C)/Z(+20°C)	4	4	4	3	3	3
	(at 120Hz)						
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied at 105°C for 2,000hours. Capacitance change $\leq \pm 30\%$ of the initial value Tan $\delta$ $\leq 300\%$ of the initial specified value Leakage current $\leq$ The initial specified value						
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements. Capacitance change $\leq \pm 30\%$ of the initial value Tan $\delta$ $\leq 300\%$ of the initial specified value Leakage current $\leq$ The initial specified value						
Others	Satisfied characteristics KS C IEC 60384-4						

**PART NUMBERING SYSTEM**

BXQ	6.3	VC	680	M	F80	TP
With tape						
Case code						
Capacitance tolerance( $\pm 20\%$ )						
Nominal capacitance code (ex. 0.1μF:R1, 1.0μF:1, 4.7μF:4R7, 10μF:10)						
Lead type						
Rated voltage						
Series name						

**RATED RIPPLE CURRENT MULTIPLIERS**

Frequency Multipliers

Cap.(μF)	Freq.(Hz)	120	1K	10K	100K
47 ~ 150		0.40	0.75	0.90	1.00
220 ~ 560		0.50	0.85	0.94	1.00
680 ~ 2,200		0.60	0.87	0.95	1.00



# SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

## DIMENSIONS OF BXQ Series

Unit(mm)

DIMENSIONS		MARKING																																																																																					
<p>● Vibration Resistance            Size code : E61~K14</p>		<p>Size code : H10~K14</p>																																																																																					
<b>Recommended solder land on PC board</b>		<small>Note 1 : L±0.5 for 8×10(H10)~12.5×13.5(K14)            Note 2 : 6.3WV is marked by 6V.</small>																																																																																					
		<table border="1"> <thead> <tr> <th>Case code</th><th>Ø D</th><th>L</th><th>A</th><th>B</th><th>C</th><th>W</th><th>P</th><th>a</th><th>b</th><th>c</th><th>a</th><th>b</th><th>c</th></tr> </thead> <tbody> <tr> <td>E61</td><td>5</td><td>5.8</td><td>5.3</td><td>5.3</td><td>5.9</td><td>0.5~0.8</td><td>1.4</td><td>1.4</td><td>3.0</td><td>1.6</td><td></td><td></td><td></td></tr> <tr> <td>F80</td><td>6.3</td><td>7.7</td><td>6.6</td><td>6.6</td><td>7.2</td><td>0.5~0.8</td><td>1.9</td><td>1.9</td><td>3.5</td><td>1.6</td><td></td><td></td><td></td></tr> <tr> <td>H10</td><td>8</td><td>10</td><td>8.3</td><td>8.3</td><td>9.0</td><td>0.7~1.1</td><td>3.1</td><td>3.1</td><td>4.2</td><td>2.2</td><td>3.1</td><td>4.2</td><td>3.5</td></tr> <tr> <td>J10</td><td>10</td><td>10</td><td>10.3</td><td>10.3</td><td>11.0</td><td>0.7~1.1</td><td>4.5</td><td>4.5</td><td>4.4</td><td>2.2</td><td>4.5</td><td>4.4</td><td>3.5</td></tr> <tr> <td>K14</td><td>12.5</td><td>13.5</td><td>13.0</td><td>13.0</td><td>13.7</td><td>1.0~1.3</td><td>4.2</td><td>4.0</td><td>5.7</td><td>2.5</td><td>3.4</td><td>6.3</td><td>9.3</td></tr> </tbody> </table>		Case code	Ø D	L	A	B	C	W	P	a	b	c	a	b	c	E61	5	5.8	5.3	5.3	5.9	0.5~0.8	1.4	1.4	3.0	1.6				F80	6.3	7.7	6.6	6.6	7.2	0.5~0.8	1.9	1.9	3.5	1.6				H10	8	10	8.3	8.3	9.0	0.7~1.1	3.1	3.1	4.2	2.2	3.1	4.2	3.5	J10	10	10	10.3	10.3	11.0	0.7~1.1	4.5	4.5	4.4	2.2	4.5	4.4	3.5	K14	12.5	13.5	13.0	13.0	13.7	1.0~1.3	4.2	4.0	5.7	2.5	3.4	6.3	9.3
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		<small>● Vibration Resistance</small>																																																																																					

## RATINGS OF BXQ Series

Vdc	Cap.( $\mu$ F)	Case code	ESR ( $\Omega$ max. / 20°C, 100kHz)	Rated Ripple Current (mA rms / 105°C, 100kHz)
6.3	680	F80	0.16	600
	1,500	H10	0.08	850
	2,200	J10	0.06	1,190
10	470	F80	0.16	600
	1,000	H10	0.08	850
	1,500	J10	0.06	1,190
16	100	E61	0.36	240
	330	F80	0.16	600
	680	H10	0.08	850
	1,000	J10	0.06	1,190
	1,800	K14	0.08	1,300
25	68	E61	0.36	240
	220	F80	0.16	600
	470	H10	0.08	850
	820	J10	0.06	1,190
	1,000	J10	0.06	1,190
	1,200	K14	0.08	1,300
35	47	E61	0.36	240
	150	F80	0.16	600
	330	H10	0.08	850
	560	J10	0.06	1,190
	680	J10	0.075	1,190
	1,000	K14	0.08	1,300
50	100	F80	0.34	350
	220	H10	0.18	670
	330	J10	0.12	900