

## BXF Series

• 105°C 2,000Hrs assured.

- Solvent proof.
- Ultra low ESR.
- For STB, Tuner.
- RoHS compliant.
- Halogen-free capacitors are also available.

• AEC-Q200 compliant : Please contact us for more details, test data, information.

Solvent-proof

BXJ

Low ESR

BXF

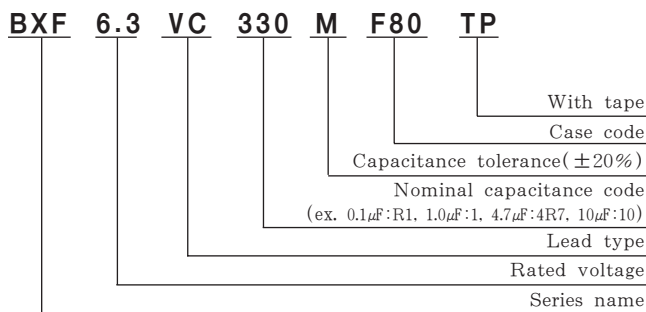


### SPECIFICATIONS

Item	Characteristics																					
Rated Voltage Range	6.3 ~ 50 V <sub>DC</sub>																					
Operating Temperature Range	-55 ~ +105°C																					
Capacitance Tolerance	± 20% (M) <span style="float: right;">(at 20°C, 120Hz)</span>																					
Leakage Current	I = 0.01CV(μA) or 3μA, whichever is greater. Where, I:Max. Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(V <sub>DC</sub> ) <span style="float: right;">(at 20°C, 2 minutes)</span>																					
Dissipation Factor(Tan δ)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20%;">Rated Voltage(V<sub>DC</sub>)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Tan δ (Max.)</td> <td>0.26</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> </tr> </table> <span style="float: right;">(at 20°C, 120Hz)</span>	Rated Voltage(V <sub>DC</sub> )	6.3	10	16	25	35	50	Tan δ (Max.)	0.26	0.19	0.16	0.14	0.12	0.12							
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Temperature Characteristics (Max. Impedance ratio)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20%;">Rated voltage(V<sub>DC</sub>)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-55°C)/Z(+20°C)</td> <td>4</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table> <span style="float: right;">(at 120Hz)</span>	Rated voltage(V <sub>DC</sub> )	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
Rated voltage(V <sub>DC</sub> )	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																
Load Life	<p>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.</p> <p>Capacitance change ≤ ±30 % of the initial value</p> <p>Tan δ ≤ 300 % of the initial specified value</p> <p>Leakage current ≤ The initial specified value</p>																					
Shelf Life	<p>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 volage 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.</p> <p>Capacitance change ≤ ±30 % of the initial value</p> <p>Tan δ ≤ 300 % of the initial specified value</p> <p>Leakage current ≤ The initial specified value</p>																					
Others	Satisfied characteristics KS C IEC 60384-4																					

BXF Series

### PART NUMBERING SYSTEM



### RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap.(μF) \ Freq.(Hz)	120	1K	10K	100K
68 ~ 100	0.40	0.75	0.90	1.00
220 ~ 560	0.50	0.85	0.94	1.00
680 ~ 1,500	0.60	0.87	0.95	1.00

## DIMENSIONS OF BXF Series

Unit(mm)

### DIMENSIONS

<Size code : F80~J10>

### MARKING

● Vibration Resistance

<Size code : H10~J10>

Note 1 : L±0.5 for 8×10(H10)~10×10(J10)  
 Note 2 : 6.3WV is marked by 6V.

Case code	φ D	L	A	B	C	W	P	a	b	c	a	b	c
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

Recommended solder land on PC board

● Vibration Resistance →

▨ : Solder land on PC board

## RATINGS OF BXF Series

μF	V <sub>DC</sub>			6.3			10			16			25			35			50		
	Case code	ESR (Ω max./20°C, 100kHz)	Rated Ripple Current (mA rms/105°C, 100kHz)	Case code	ESR (Ω max./20°C, 100kHz)	Rated Ripple Current (mA rms/105°C, 100kHz)	Case code	ESR (Ω max./20°C, 100kHz)	Rated Ripple Current (mA rms/105°C, 100kHz)	Case code	ESR (Ω max./20°C, 100kHz)	Rated Ripple Current (mA rms/105°C, 100kHz)	Case code	ESR (Ω max./20°C, 100kHz)	Rated Ripple Current (mA rms/105°C, 100kHz)	Case code	ESR (Ω max./20°C, 100kHz)	Rated Ripple Current (mA rms/105°C, 100kHz)			
68																F80	0.16	600			
100																F80	0.16	600	H10	0.34	350
150																F80	0.16	600	H10	0.08	850
220																F80	0.16	600	H10	0.08	850
330																F80	0.16	600	H10	0.08	850
470																H10	0.08	850	J10	0.06	1,190
560																H10	0.08	850	J10	0.06	1,190
680																H10	0.08	850	J10	0.06	1,190
820																H10	0.08	850	J10	0.06	1,190
1,000																H10	0.08	850	J10	0.06	1,190
1,500																J10	0.06	1,190			

↑ Case code  
 ↑ ESR (Ω max./20°C, 100kHz)  
 ↑ Rated Ripple Current (mA rms/105°C, 100kHz)