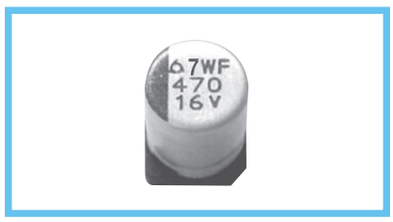
BXF Series

• 105℃ 2,000Hrs assured.

Solvent-proof

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

BXJ → BXF
Low ESR



SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	6.3 ~ 50 V_{DC}
Operating Temperature Range	-55 ~ +105℃
Capacitance Tolerance	±20%(M) (at 20℃, 120Hz)
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_{DC}) (at 20℃, 2 minutes)
Dissipation Factor (Tanδ)	Rated Voltage(V_{DC}) 6.3 10 16 25 35 50 Tanδ (Max.) 0.26 0.19 0.16 0.14 0.12 0.12 (at 20℃, 120Hz)
Temperature Characteristics (Max. Impedance ratio)	Rated voltage(V_{DC}) 6.3 10 16 25 35 50 Z(-25℃)/Z(+20℃) 2 2 2 2 2 2 Z(-55℃)/Z(+20℃) 4 4 4 3 3 3 (at 120Hz)
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied at 105℃ for 2,000hours. Capacitance change ≤ ±30 % of the initial value Tanδ ≤ 300 % of the initial specified value Leakage current ≤ The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ 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. Capacitance change ≤ ±30 % of the initial value Tanδ ≤ 300 % of the initial specified value Leakage current ≤ The initial specified value
Others	Satisfied characteristics KS C IEC 60384-4

PART NUMBERING SYSTEM

BXF 6.3 VC 220 M F60 TP

- TP: With tape
- F60: Case
- M: Capacitance tolerance(±20%)
- 220: Nominal capacitance code (ex. 0.1μF:R1, 1.0μF:1, 4.7μF:4R7, 10μF:10)
- VC: Lead type
- 6.3: Rated voltage
- BXF: Series name

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap.(μF) \ Freq.(Hz)	120	1K	10K	100K
10 ~ 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

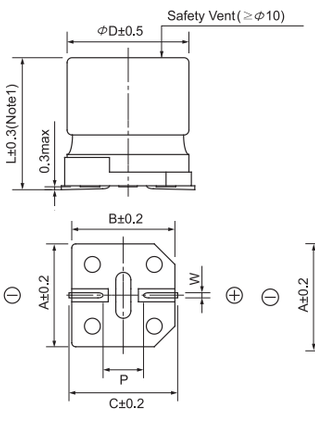
DIMENSIONS OF BXF Series

Unit(mm)

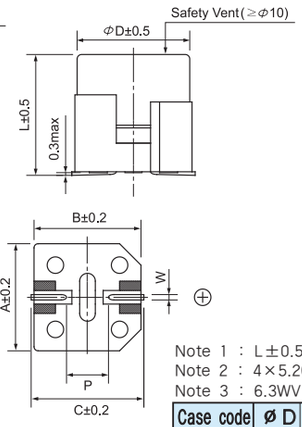
DIMENSIONS

● Vibration Resistance

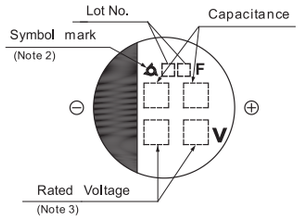
〈Size code : D55～J10〉



〈Size code : H10～J10〉



MARKING

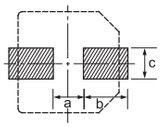


Note 1 : L±0.5 for 8×6.3(H63)～10×10(J10)
Note 2 : 4×5.2(D55), 4×5.8(D61), 5×5.2(E55), 5×5.8(E61) is excluded symbol mark.
Note 3 : 6.3WV is marked by 6V.

Case code	ØD	L	A	B	C	W	P	a	b	c	a	b	c
D55	4	5.2	4.3	4.3	5.1	0.5-0.8	1.0	1.0	2.6	1.6			
D61	4	5.8	4.3	4.3	5.1	0.5-0.8	1.0	1.0	2.6	1.6			
E55	5	5.2	5.3	5.3	5.9	0.5-0.8	1.4	1.4	3.0	1.6			
E61	5	5.8	5.3	5.3	5.9	0.5-0.8	1.4	1.4	3.0	1.6			
F55	6.3	5.2	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6			
F60	6.3	5.7	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	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			
H63	8	6.3	8.3	8.3	9.0	0.5-0.8	2.3	2.3	4.5	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

● Vibration Resistance

Recommended solder land on PC board



: Solder land on PC board

RATINGS OF BXF Series

μF \ VDC	6.3			10			16			25			35			50		
10										D55	1.50	120	D55	1.50	120			
22							D55	1.50	120	D61	0.85	160	E55	0.70	200			
										E55	0.70	200						
33				D55	1.50	120	D61	0.85	160	E55	0.70	200	F60	0.26	300			
							E55	0.70	200									
47	D55	1.50	120	D61	0.85	160	E55	0.70	200	F60	0.26	300	F60	0.26	300			
				E55	0.70	200												
68	E61	0.36	240	E61	0.36	240	F60	0.26	300	F60	0.26	300	F80	0.16	600			
	F55	0.40	250	F60	0.26	300												
100	E61	0.36	240	F60	0.26	300	F60	0.26	300	F80	0.16	600	F80	0.16	600	H10	0.34	350
	F55	0.40	250															
150	F60	0.26	300	F60	0.26	300	F80	0.16	600	H10	0.08	850	H10	0.08	850	J10	0.18	670
220	F60	0.26	300	F80	0.16	600	F80	0.16	600	H10	0.08	850	H10	0.09	850	J10	0.18	670
				H63	0.18	500												
330	F80	0.16	600	H10	0.08	850	H10	0.08	850	H10	0.08	850	J10	0.06	1190			
	H63	0.18	500															
470	H10	0.08	850	H10	0.08	850	H10	0.08	850	J10	0.06	1190						
560	H10	0.08	850	H10	0.08	850	J10	0.06	1190	J10	0.06	1190						
680	H10	0.08	850	H10	0.08	850	J10	0.06	1190									
820	H10	0.08	850	J10	0.06	1190	J10	0.06	1190									
1000	H10	0.08	850	J10	0.06	1190												
1500	J10	0.06	1190															

Rated Ripple Current (mArms/105℃, 100kHz)
ESR (Ω max./20℃, 100kHz)
Case code