BXQ Series

• 105℃ 2,000Hrs assured.

- Solvent proof.
- Ultra low ESR.
- For STB, Tuner, Car.
- RoHS compliant.
- Halogen-free capacitors are also available.
- AEC-Q200 compliant : Please contact us for more details, test data, information.

Solvent-proof

BXF → BXQ

Downsized

SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	6.3 ~ 50 VDC
Operating Temperature Range	-55 ~ +105℃
Capacitance Tolerance	±20%(M) (at 20℃, 120Hz)
Leakage Current	I=0.01CV(μA) or 3μA, whicher is greater. Where, I:Max. Leakage current(μA), C:Nominal capacitance(μF), V:Rated voltage(VDC) (at 20℃, 2 minutes)
Dissipation Factor(Tanδ)	Rated Voltage(VDC): 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(VDC): 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 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 ≤ ±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

BXQ 6.3 VC 680 M F80 TP

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

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

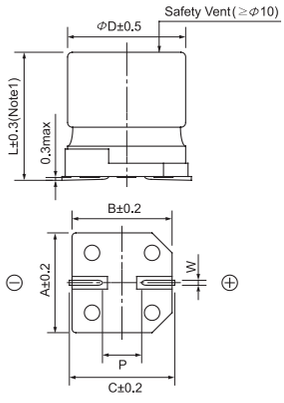
Cap.(μF) \ Freq.(Hz)	120	1K	10K	100K
47 ~ 150	0.40	0.75	0.90	1.00
220 ~ 560	0.50	0.85	0.94	1.00
680 ~ 2,200	0.60	0.87	0.95	1.00

DIMENSIONS OF BXQ Series

Unit(mm)

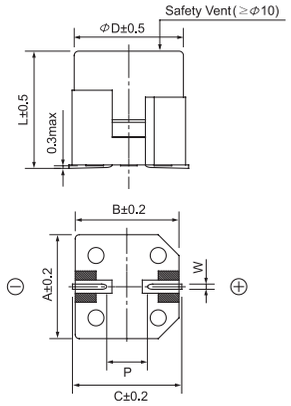
DIMENSIONS

〈Size code : E61～K14〉

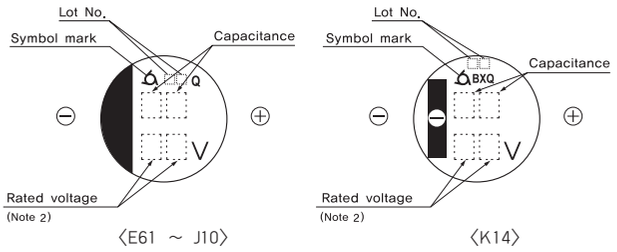


● Vibration Resistance

〈Size code : H10～K14〉

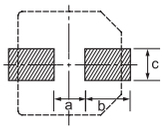


MARKING



〈E61 ~ J10〉 〈K14〉

Recommended solder land on PC board



▨ : Solder land on PC board

Note 1 : L±0.5 for 8×10(H10)～12.5×13.5(K14)
Note 2 : 6.3WV is marked by 6V.

Case code	ØD	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

● Vibration Resistance

RATINGS OF BXQ Series

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