BXW Series

• 105℃ 3000~5,000Hrs assured.

Solvent-proof

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

BXQ → BXW
Long Life

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, whicher 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 for 3,000~5,000hours at 105℃. 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

BXW 35 VC 680 M J10 TP

- TP : With tape
- J10 : 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
- 35 : Rated voltage
- BXW : Series name

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Cap.(μF) \ Freq.(Hz)	120	1K	10K	100K
68 ~ 150	0.40	0.75	0.90	1.00
180 ~ 560	0.50	0.85	0.94	1.00
680 ~ 2,200	0.60	0.87	0.95	1.00

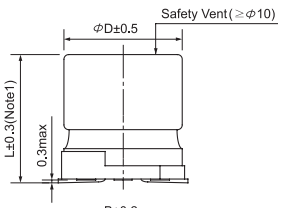
DIMENSIONS OF BXW Series

Unit(mm)

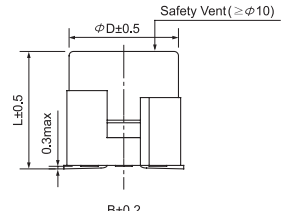
DIMENSIONS

● Vibration Resistance

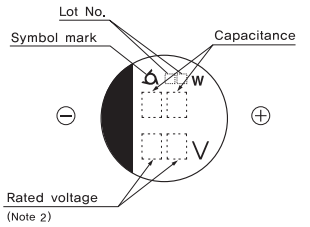
〈Size code : F80～J10〉



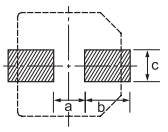
〈Size code : F80～J10〉



MARKING



Recommended solder land on PC board



: Solder land on PC board

Note 1 : L±0.5 for H10 , J10
Note 2 : 6.3WV is marked by 6V.

Case code	ØD	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

● Vibration Resistance

RATINGS OF BXW Series

Endurance : 105℃ 3,000 hours

Vdc	Cap.(μF)	Case Code	ESR (Ωmax./20℃,100㎑)	Rated Ripple Current (mArms/105℃,100㎑)
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	330	F80	0.16	600
	680	H10	0.08	850
	1,000	J10	0.06	1,190
25	220	F80	0.16	600
	470	H10	0.08	850
	1,000	J10	0.06	1,190
35	150	F80	0.16	600
	330	H10	0.08	850
	680	J10	0.075	1,190
50	100	F80	0.34	350
	220	H10	0.18	670
	330	J10	0.12	900

Endurance : 105℃ 5,000 hours

Vdc	Cap.(μF)	Case Code	ESR (Ωmax./20℃,100㎑)	Rated Ripple Current (mArms/105℃,100㎑)
6.3	470	F80	0.30	420
	1,000	H10	0.16	600
	1,500	J10	0.08	850
10	330	F80	0.30	420
	820	H10	0.16	600
	1,200	J10	0.08	850
16	270	F80	0.30	420
	680	H10	0.08	850
	1,000	J10	0.06	1,190
25	180	F80	0.30	420
	470	H10	0.08	850
	820	J10	0.06	1,190
35	120	F80	0.30	420
	330	H10	0.08	850
	560	J10	0.06	1,190
50	68	F80	0.40	250
	180	H10	0.18	670
	270	J10	0.14	750