BXJ Series

• 105℃ 2,000~5,000Hrs assured.

- Vertical SMD type.
- Very low impedance, Long Life.
- For STB, Tuner.
- RoHS compliant.
- Halogen-free capacitors are also available.

Solvent-proof

WV ≦ 63VDC

BXE → BXJ

Long Life.

SPECIFICATIONS

Item	Characteristics							
Rated Voltage Range	6.3 ~ 50VDC				63 ~ 100VDC			
Operating Temperature Range	-55 ~ +105℃				-40 ~ +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(VDC) (at 20℃, 2 minutes)							
Dissipation Factor (Tanδ)	Rated Voltage(VDC)	6.3	10	16	25	35	50	63	100
	Tanδ (Max.)	0.26	0.19	0.16	0.14	0.12	0.12	0.12	0.12
	(at 20℃, 120Hz)								
Temperature Characteristics (Max. Impedance ratio)	Rated voltage(VDC)	6.3	10	16	25	35	50	63	100
	Z(-25℃)/Z(+20℃)	3	2	2	2	2	2	3	3
	Z(-55℃)/Z(+20℃)	5	4	4	3	3	3	※4	※4
	※Z(-40℃)/Z(+20℃) (at 120Hz)								
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied with the following conditions. D56~H63 : 105℃, 2,000 hours, H10 ~ K14 : 105℃, 5,000 hours. Capacitance change D56~H63 ≦ ±30% of the initial value H10~K14 ≦ ±35% 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 D56~H63 ≦ ±30% of the initial value H10~K14 ≦ ±35% 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

BXJ 6.3 VC 220 M F60 TP

- TP : With tape
- F60 : Case code
- 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 in volts
- BXJ : Series name

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Size code	Freq.(Hz) / Cap.(μF)	120	1K	10K	100K
D56 ~ J10	4.7	0.35	0.70	0.90	1.00
	10 ~ 100	0.40	0.75	0.90	1.00
	220 ~ 470	0.50	0.85	0.94	1.00
	1,000 ~ 1,500	0.60	0.87	0.95	1.00
K14	47 ~ 100	0.40	0.75	0.90	1.00
	330 ~ 470	0.50	0.85	0.94	1.00
	680 ~ 2,000	0.60	0.87	0.95	1.00

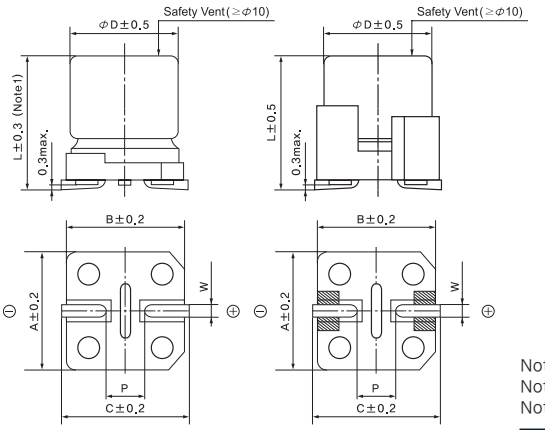
DIMENSIONS OF BXJ Series

Unit(mm)

DIMENSIONS

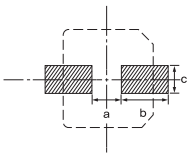
● Vibration Resistance

〈Size code:D56～K14〉 〈Size code:H10～K14〉



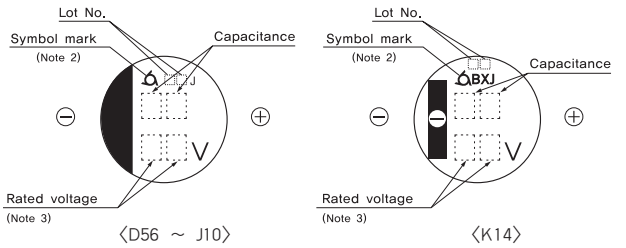
▨ : Dummy terminals

Recommended solder land on PC board



▨ : Solder land on PC board

MARKING



〈D56 ~ J10〉 〈K14〉

Note 1 : L±0.5 for 8×6.3(H63)～12.5×13.5(K14).
Note 2 : 4×5.3(D56), 5×5.3(E56) 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
D56	4	5.3	4.3	4.3	5.1	0.5-0.8	1.0	1.0	2.6	1.6			
E56	5	5.3	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
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 BXJ Series

μF \ VDC	6.3			10			16			25			35			50			63			100		
4.7													D56	1.80	85	E56	3.00	55						
10							D56	1.80	85	D56	1.80	85	D56	1.80	85	F60	1.20	120	F60	4.50	48	H63	1.80	85
													E56	0.80	155									
22				D56	1.80	85	D56	1.80	85	E56	0.80	155	F55	0.55	220	F60	1.20	120	H63	1.50	100	H10	1.50	160
							E56	0.80	155															
33	D56	1.80	85	E56	0.80	155	F60	0.36	240	F60	0.36	240	F60	0.36	240	F80	0.90	150	H10	1.00	200	J10	0.60	330
47	E56	0.80	155	F60	0.36	240	F60	0.36	240	F55	0.55	220	F60	0.36	240	H63	0.75	200	H10	1.00	200	K14	0.40	400
										F60	0.36	240												
68	F60	0.36	240	F60	0.36	240	F60	0.36	240	F60	0.36	240	F80	0.34	280	H10	0.44	300	J10	0.50	350	K14	0.40	400
													H63	0.26	300									
100	F60	0.36	240	F60	0.36	240	F60	0.36	240	F80	0.34	280	H10	0.16	600	H10	0.44	300	J10	0.50	350	K14	0.40	400
										H63	0.26	300	J10	0.08	850	J10	0.25	500						
220	F60	0.36	240	F80	0.34	280	F80	0.34	280	H10	0.16	600	H10	0.16	600	J10	0.25	500						
330	F80	0.34	280	H10	0.16	600	H10	0.16	600	H10	0.16	600	J10	0.08	850	K14	0.11	650						
										J10	0.08	850												
470	H10	0.16	600	H10	0.16	600	H10	0.16	600	J10	0.08	850	K14	0.06	1,100									
							J10	0.08	850															
1,000	H10	0.16	600	J10	0.08	850	K14	0.06	1,100	K14	0.06	1,100												
1,500	J10	0.08	850	K14	0.06	1,100																		
2,200	K14	0.06	1,100	K14	0.06	1,100																		

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