BXA Series

• 105℃ 1,000~2,000Hrs assured.

Solvent-proof

- Vertical SMD type.
- Low Impedance.
- For STB, Satellite Radio, Computer Server.
- RoHS compliant.
- Halogen-free capacitors are also available.

MVY → BXA (Low Imp.)

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)	(at 20℃, 120Hz)
Temperature Characteristics (Max. Impedance ratio)	(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. ø4~ø6.3 : 105℃, 1,000 hours, ø8 & ø10 : 105℃, 2,000 hours. Capacitance change ≦ ±25% of the initial value Tanδ ≦ 200% 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 1000 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 ≦ ±25% of the initial value Tanδ ≦ 200% of the initial specified value Leakage current ≦ The initial specified value
Others	Satisfied characteristics KS C IEC 60384-4

SIZE \ Rated Voltage(V_{DC})	6.3	10	16	25	35	50
D56~H63	0.24	0.20	0.16	0.14	0.12	0.12
H10~J10	0.28	0.24	0.20	0.16	0.14	0.12

Rated voltage(V_{DC})	6.3	10	16	25	35	50
Z(-25℃)/Z(20℃)	3	2	2	2	2	2
Z(-55℃)/Z(20℃)	5	4	4	3	3	3

PART NUMBERING SYSTEM

BXA 16 VC 100 M F60 TP

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

RATED RIPPLE CURRENT MULTIPLIERS

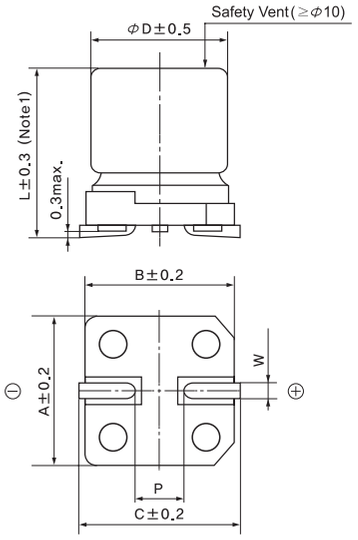
Frequency Multipliers

Cap.(μF) \ Freq.(Hz)	120	1K	10K	100K
2.2 ~ 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

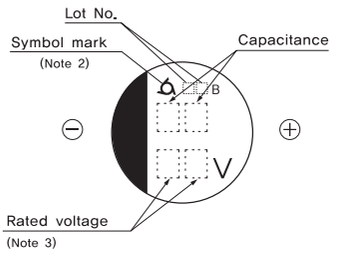
DIMENSIONS OF BXA Series

Unit(mm)

DIMENSIONS



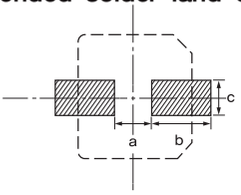
MARKING



Note 1 : L±0.5 for 8×6.3(H63)~10×10(J10)
Note 2 : 4×5.3(D56), 5×5.3(E56) is excluded symbol mark.
Note 3 : 6.3WV is marked by 6V.

Case code	ø D	L	A	B	C	W	P	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
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
J10	10	10	10.3	10.3	11.0	0.7~1.1	4.5	4.5	4.4	2.2

Recommended solder land on PC board



: Solder land on PC board

RATINGS OF BXA Series

μF \ VDC	6.3			10			16			25			35			50		
2.2																D56	4.80	30
4.7													D56	2.10	80	E56	3.00	50
10										D56	2.10	80	E56	0.90	150	F60	2.00	70
22				D56	2.10	80	E56	0.90	150	E56	0.90	150	E56	0.90	150	F60	2.00	70
33	D56	2.10	80	E56	0.90	150	F60	0.44	230	F60	0.44	230	F60	0.44	230	F80	1.00	170
47	E56	0.90	150	F60	0.44	230	F60	0.44	230	F60	0.44	230	F60	0.44	230	H63	0.90	180
68	F60	0.44	230	F60	0.44	230	F60	0.44	230	F60	0.44	230	F80	0.34	280	H10	0.44	230
100	F60	0.44	230	F60	0.44	230	F60	0.44	230	F80	0.34	280	H10	0.17	450	H10	0.44	230
										H63	0.32	300						
220	F60	0.44	230	F80	0.34	280	F80	0.34	280	H10	0.17	450	H10	0.17	450	J10	0.30	350
330	F80	0.34	280	H10	0.17	450	H10	0.17	450	H10	0.17	450	J10	0.09	670			
470	H10	0.17	450	H10	0.17	450	H10	0.17	450	J10	0.09	670						
1,000	H10	0.17	450	J10	0.09	670												
1,500	J10	0.09	670															

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