Aluminum Electrolytic Type / Surface Mount Type **RoHS compliance**

CE-BS Series

Standard

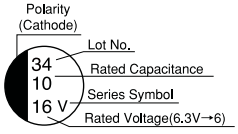
● Solvent proof (within 2 minutes)

■ Specifications

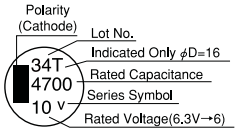
Items	Condition		Specifications								
Rated voltage (V)	–		4	6.3	10	16	25	35	50	63	100
Surge voltage (V)	Room temperature		5.0	8.0	13	20	32	44	63	79	125
Category temperature range (℃)	–		−40 to +85								
Capacitance tolerance (%)	120Hz/20℃		M : ±20								
Dissipation Factor (tan δ)	120Hz/20℃	φ4 to φ6.3	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.12	0.10
		φ8 to φ16	0.40	0.30	0.24	0.20	0.16	0.14	0.12	0.12	0.10
			When rated capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase.								
Leakage current (LC)	μA/after 2minutes (max)		The greater value of either 0.01CV or 3								
Impedance ratio at low temperature	Based the value at 120Hz, +20℃	−25℃ Z/Z20℃	7	4	3	2	2	2	2	2	2
		−40℃ Z/Z20℃	15	8	6	4	4	3	3	3	3
Endurance	85℃, 2,000hrs. rated voltage applied (With the rated ripple current)	△C/C	Within ±25% of the initial value								
		tan δ	≤ 2 times the initial specified value								
		LC	≤ The initial specified value								

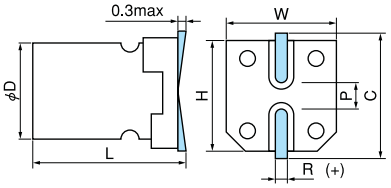
■ Marking, Dimensions

[φD≤10]



[φD≥12.5]





A pressure relief vent is attached to products over φD=8

(Unit : mm)

D+0.5max	L	W±0.2	H±0.2	C±0.2	R	P±0.2
4	$5.4^{+0.1}_{-0.2}$	4.3	4.3	5.0	0.5 to 0.8	1.0
4	$6.0^{\pm0.3}$	4.3	4.3	5.0	0.5 to 0.8	1.0
5	$5.4^{+0.1}_{-0.2}$	5.3	5.3	6.0	0.5 to 0.8	1.4
6.3	$5.4^{+0.1}_{-0.2}$	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	$6.0^{\pm0.3}$	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	$7.7^{\pm0.3}$	6.6	6.6	7.3	0.5 to 0.8	2.2
8	$10.2^{\pm0.3}$	8.3	8.3	9.0	0.7 to 1.0	3.2
10	$7.7^{\pm0.3}$	10.3	10.3	11.0	1.0 to 1.4	4.6
10	$10.2^{\pm0.3}$	10.3	10.3	11.0	1.0 to 1.4	4.6
12.5	$13.5^{\pm0.5}$	12.8	12.8	13.5	1.0 to 1.4	4.6
16	$16.5^{\pm0.5}$	16.3	16.3	17.3	1.7 to 2.1	7.0

■ Size List, Rated Ripple Current

μF \ V	4		6.3		10		16		25	
4.7									4×5.4	19
10							4×5.4	25	5×5.4	28
22			4×5.4	31	5×5.4	35	5×5.4	39	6.3×5.4	52
33	4×5.4	26	5×5.4	39	5×5.4	43	6.3×5.4	57	6.3×5.4	63
47	4×5.4	34	5×5.4	47	6.3×5.4	59	6.3×5.4	68	6.3×6.0	68
100	5×5.4	61	6.3×5.4	71	6.3×5.4	76	6.3×5.4	86	6.3×7.7	130
150					6.3×6.0	88	6.3×7.7	135	8×10.2	200
220	6.3×5.4	82	6.3×6.0	95	6.3×7.7	150	6.3×7.7	150	8×10.2	250
									10×7.7	250
330	6.3×6.0	102	6.3×7.7	150	8×10.2	280	8×10.2	280	8×10.2	310
							10×7.7	280		
470	6.3×7.7	150	8×10.2	300	8×10.2	300	8×10.2	330	10×10.2	430
					10×7.7	300				
680			8×10.2	300			10×10.2	450		
			10×7.7	300						
1000			8×10.2	330	10×10.2	450			12.5×13.5	660
	10×7.7	330								
1500			10×10.2	450			12.5×13.5	710		
2200					12.5×13.5	730			16×16.5	1150
3300			12.5×13.5	750			16×16.5	1200		
4700					16×16.5	1260				
6800			16×16.5	1330						

μF \ V	35		50		63		100	
0.47			4×5.4	5	4×5.4	5		
1.0			4×5.4	10	4×5.4	10	4×6.0	10
2.2			4×5.4	15	4×5.4	15	6.3×6.0	20
3.3			4×5.4	18	5×5.4	20	6.3×6.0	28
4.7	4×5.4	20	5×5.4	23	5×5.4	23	6.3×6.0	35
10	5×5.4	30	6.3×5.4	34	6.3×5.4	34	6.3×7.7	50
22	6.3×5.4	54	6.3×6.0	60	6.3×7.7	70	8×10.2	120
33	6.3×6.0	60	6.3×7.7	85	8×10.2	160	10×10.2	190
47	6.3×6.0	70	6.3×7.7	90	8×10.2	170	12.5×13.5	330
68					8×10.2	180	12.5×13.5	350
82			10×7.7	200				
100	6.3×7.7	120	8×10.2	200	10×10.2	280	16×16.5	550
150	8×10.2	220					16×16.5	560
	10×7.7	220						
220	8×10.2	270	10×10.2	320	12.5×13.5	410		
330	10×10.2	340	12.5×13.5	520				
390			12.5×13.5	550				
470	12.5×13.5	590			16×16.5	700		
680	12.5×13.5	610						
1000	16×16.5	1000	16×16.5	940				
1500	16×16.5	1060						

Please refer to page 15 for the ripple current frequency coefficient.

Case size:φDxL(mm)
10×7.7:CE-BSA
16×16.5:CE-BST

Rated ripple current
mArms(120Hz, 85℃)

■ Model No.

BS
16 CE 10 BS
- Series code
- Rated capacitance code
- Type code
- Rated voltage

BSA
10 CE 470 BSA
- Series code
- Rated capacitance code
- Type code
- Rated voltage

BST
10 CE 4700 BS T
- Sn plating terminal code
- Series code
- Rated capacitance code
- Type code
- Rated voltage