

CE-BD Series

Small, Low Profile

4.5mm Height



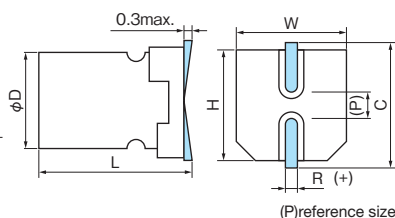
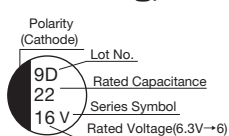
- Solvent proof (within 2 minutes)
- AEC-Q200

 CE-BS (P.40)
 ↓ Low Profile
CE-BD

Specifications

Items	Condition	Specifications							
Rated voltage (V)	—	4	6.3	10	16	25	35	50	
Surge voltage (V)	Room temperature	5.0	8.0	13	20	32	44	63	
Category temperature range (°C)	—	-40 to +85							
Capacitance tolerance (%)	120Hz/20°C	M : ±20							
Dissipation Factor (tan δ)	tanδ (max.) 120Hz/20°C	0.40	0.30	0.24	0.20	0.16	0.14	0.12	
Leakage current (LC)	μA/after 2minutes (max.)	The greater value of either 0.01CV or 3							
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-25°C Z/Z _{20°C}	7	4	3	2	2	2	2
		-40°C Z/Z _{20°C}	15	10	8	6	4	4	4
Endurance	85°C, 1,000hours rated voltage applied (With the rated ripple current)	ΔC/C	Within ±25% of the initial value						
		tanδ	Less than 200% of the specified value						
		LC	Less than the specified value						

Marking, Dimensions



(Unit : mm)						
D ^{+0.5}	L ^{+0.1} _{-0.2}	W ^{+0.2}	H ^{+0.2}	C ^{+0.2}	R	P
4	4.5	4.3	4.3	5.0	0.5 to 0.8	1.0
5	4.5	5.3	5.3	6.0	0.5 to 0.8	1.4
6.3	4.5	6.6	6.6	7.3	0.5 to 0.8	2.2

Size, Rated Ripple Current

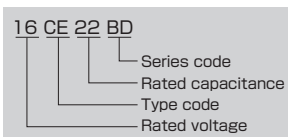
μF \ V	4	6.3	10	16	25	35	50
0.47							4x4.5 4.0
1.0							4x4.5 8.4
2.2							4x4.5 14
3.3							4x4.5 17
4.7					4x4.5 17	4x4.5 18	5x4.5 21
10				4x4.5 23	5x4.5 27	5x4.5 29	6.3x4.5 33
22		4x4.5 28	5x4.5 33	5x4.5 37	6.3x4.5 47	6.3x4.5 49	
33	4x4.5 28	5x4.5 37	5x4.5 41	6.3x4.5 51	6.3x4.5 57		
47	4x4.5 33	5x4.5 45	6.3x4.5 53	6.3x4.5 61			
100	5x4.5 56	6.3x4.5 70	6.3x4.5 74				
220	6.3x4.5 96						

Please refer to page 14 for ripple current frequency coefficients.

Case size: φDxL (mm)

 Rated ripple current
 mA rms (120Hz, 85°C)

Part number


 Surface Mount Type
 Aluminum Electrolytic Capacitors

- CE-BE
- CE-BD
- CE-BS
- CE-BSS
- CE-FE
- CE-LD
- CE-FSS
- CE-FS
- CE-FS (High Voltage)
- CE-FH
- CE-AX
- CE-KX
- CE-ZX
- CE-ZC
- CE-LX
- CE-GA
- CE-LS
- CE-LH
- CE-LH (High Voltage)
- CE-LL
- CE-LF
- CE-PC
- CE-PH
- CE-PS
- CE-PF
- CE-TH
- CE-JX
- CE-NP
- CE-FN