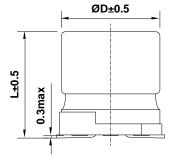
ALUMINUM ELECTROLYTIC CAPACITORS

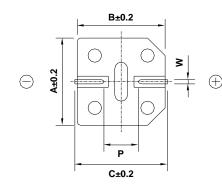
APPROVAL NO.

BDS 50 VC 100 (M)

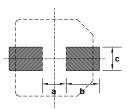
SERIES	BDS		
RATING	50 V 100 μ F		
CASE SIZE	Ø8 × 10L		

A. DIAGRAM OF DIMENSIONS

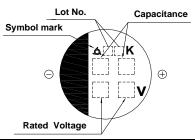




Recommended Solder land on PC board



: Solder land on PC board



Case code	ØD	L	Α	В	С	W	Р	а	b	С
H10	8	10	8.3	8.3	9.0	0.7~1.1	3.1	3.1	4.2	2.2

B. ELECTRICAL CHARACTERISTICS

A. OPERATING TEMPERATURE RANGE : $-40 \sim +105^{\circ}$

B. RATED VOLTAGE : 50 V_{DC} C. SURGE VOLTAGE : 63 V_{DC}

D. CAPACITANCE TOLERANCE : $\pm 20\%$ at 20%, 120%

E. LEAKAGE CURRENT : Lower 50 △A, after 2 minutes at 20 ℃

F. DISSIPATION FACTOR (TAN δ) : Lower <u>0.12</u> at 20 $^{\circ}$ C, 120 † Lower <u>0.12</u> at 105 $^{\circ}$ C, 120 † Lower <u>0.12</u> at 105 $^{\circ}$ C, 120 † Lower <u>0.12</u> at 105 $^{\circ}$ C, 120 † Lower <u>0.12</u> at 20 † C, 120 † Lower <u>0.12</u> at 20 † C.

H. RATED RIPPLE CURRENT MULTIPLIERS

(Frequency Multipliers)

Freq.(Hz)	120	1k	10k	100k
Factor	1.00	1.05	1.08	1.08

I. TEMPERATURE CHARACTERISTIC

(Max.Impedance ratio)

i dotoi	1.00	1.00	1.00
Z(-25℃)	/ Z(+20	(3(3
Z(-40℃)	/ Z(+20)°C) 4	4

(at 120Hz)

J. LOAD LIFE: The following specifications shall be satisfied when the capacitors are restored to 20 °C

after the rated voltage is applied for 2,000 hours at 105℃.

Capacitance change $\leq \pm 20\%$ of the initial value

Tan δ $\leq 200 \%$ of the initial specified value

Leakage Current ≤ The initial specified value

K. SHELF LIFE : The following specifications shall be satisfied when the capacitors are restored to 20 $\ensuremath{^{\circ}}$

after exposing them for $\underline{1,000}$ hours at $\underline{105\,\text{°C}}$ 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 measurement.

Capacitance change $\leq \pm 20\%$ of the initial value

Tan δ $\leq 200 \%$ of the initial specified value

Leakage Current ≤ The initial specified value

L. CLEANING CONDITIONS : Solvent-proof → Refer to Cleaning conditions (Page 6)

M. OTHERS : Satisfied characteristics KS C IEC 60384-4



