ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

UBH

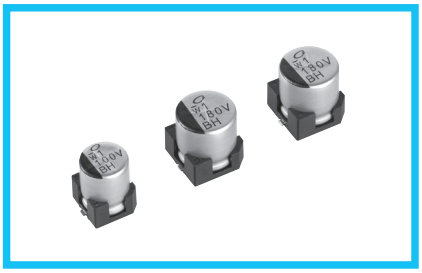
Chip Type, High Temperature Range,
Vibration Resistance
Low temperature ESR specification

For SMD | Long Life | Anti-Solvent Feature

NEW

- Highly dependable reliability withstanding load life of 1500 to 2000 hours at +150°C, Low temperature ESR.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.

UBH ← Long Life → UBC

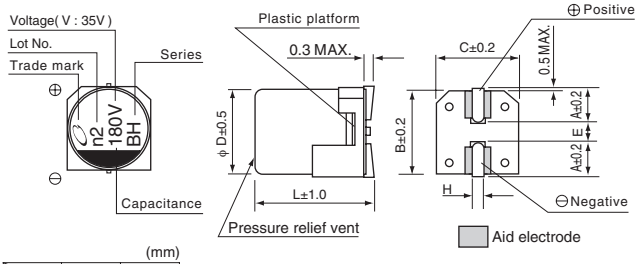


■Specifications

Item	Performance Characteristics			
Category Temperature Range	−40 to +150°C			
Rated Voltage Range	25 to 35V			
Rated Capacitance Range	100 to 270μF			
Capacitance Tolerance	±20% at 120Hz, 20°C			
Leakage Current	After 2 minute's application of rated voltage at 20°C, leakage current is not more than 0.01CV .			
Tangent of loss angle (tan δ)	Rated voltage (V)	25	35	120Hz at 20°C
	tan δ (MAX.)	0.16	0.14	
Stability at Low Temperature	Rated voltage (V)	25	35	120Hz
	Impedance ratio ZT/Z20 (MAX.) Z−40°C / Z+20°C	6	4	
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 150°C (φ8 = 1500 hours) .	Capacitance change: Within ±40% of the initial capacitance value tan δ: 400% or less than the initial specified value Leakage current: Less than or equal to the initial specified value		
Shelf Life	After storing the capacitors under no load at 150°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.			
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.	Capacitance change: Within ±10% of the initial capacitance value tan δ: Less than or equal to the initial specified value Leakage current: Less than or equal to the initial specified value		
Marking	Black print on the case top.			

■Chip Type

(φ8 , φ10) 【Vibration Resistance】



(mm)

φDXL	8×10	10×10
A	2.9	3.2
B	8.3	10.3
C	8.3	10.3
E	3.1	4.5
L	10	10
H	1.1 to 1.5	1.1 to 1.5

Type numbering system (Example : 35V 180μF)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	B	H	1	V	1	8	1	M	N	S	1	G	S

Taping code
Size code
Configuration
Capacitance Tolerance (±20%)
Rated capacitance (180μF)
Rated voltage (35V)
Series name
Type

Voltage		
V	25	35
Code	E	V

●Frequency coefficient of rated ripple current

Frequency	120 Hz	300 Hz	1 kHz	10kHz or more
Coefficient	0.67	0.79	0.91	1.00

■Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L(mm)	tan δ	Leakage Current (μA) (at 20℃ after 2 minutes)	ESR(Ω)MAX. Initial 20℃ 100kHz	ESR(Ω)MAX. Initial −40℃ 100kHz	Rated Ripple (mArms) (150℃/100kHz)	Part Number
25 (1E)	150	8×10	0.16	37.5	0.26	4.5	80	UBH1E151MNS1GS
	270	10×10	0.16	67.5	0.15	2.0	120	UBH1E271MNS1GS
35 (1V)	100	8×10	0.14	35.0	0.26	4.5	80	UBH1V101MNS1GS
	180	10×10	0.14	63.0	0.15	2.0	120	UBH1V181MNS1GS

- For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.