

ALUMINUM ELECTROLYTIC CAPACITORS

UBH

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



- 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 Qualified. Please contact us for details.



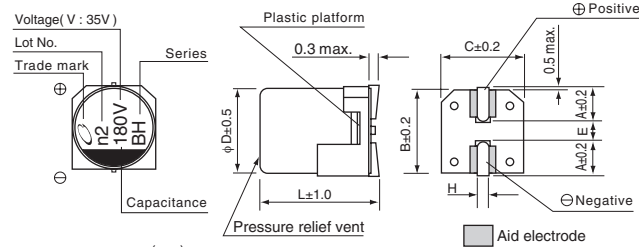
Specifications

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 (φ 8 = 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.				

※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

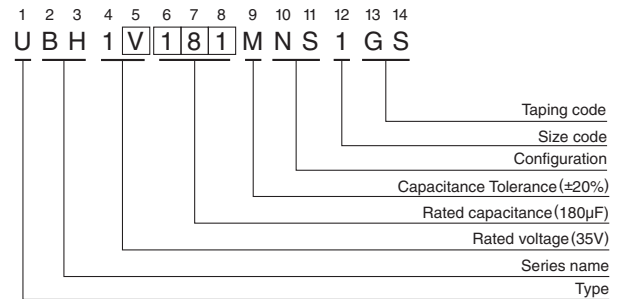
Chip Type

(φ8 , φ10) 【Vibration Resistance】



φD×L (mm)	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)



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°C after 2 minutes)	ESR (Ω) max.		Rated Ripple (mArms) (150°C/100kHz)	Part Number
					Initial 20°C 100kHz	Initial -40°C 100kHz		
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.