

Data Sheet

Customer : _____

Product : Conductive Polymer Hybrid Aluminum Electrolytic Capacitors
SMD Type, High Temperature, 150°C 1,000Hours – AHMW Series
AEC-Q200 Version Available

Size : 8x10mm ~ 10x10.5mm

Issued Date : 01-Sep.-2025

Edition : Ver.1

Record of change

Date	Ver.	Description	Page

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01-Sep.-2025	01-Sep.-2025	01-Sep.-2025	
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CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

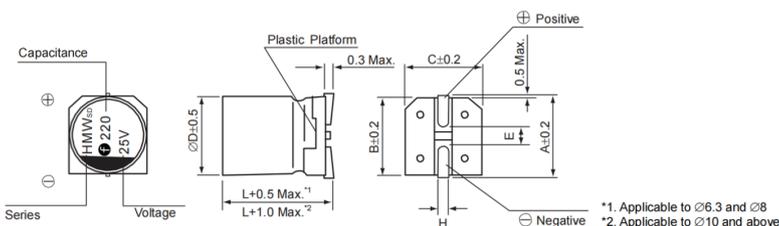
SMD Type, 150°C High Temperature

- High reliability and high voltage realized by hybrid electrolyte
- Endurance: 1,000 hours at 150°C
- Rated Voltage : 25V ~ 63V
- Rated capacitance : 33 ~ 270 μF
- For high temperature & reliability applications.
- AEC-Q200 Compliant, for automotive equipment.

■ SPECIFICATIONS

Item	Performance Characteristics					
Operating Temperature range	-55 + 150°C					
Rated Voltage Range	25V ~ 63V					
Capacitance Tolerance	± 20% (at 120 Hz/ 20°C)					
Leakage Current	$I \leq 0.01 CV$ or less (2 minutes , 20°C) Not greater than the formula above after 2 minutes voltage applied. I : Leakage current (μA) C : Capacitance (μF) V : Voltage(VDC)					
Dissipation Factor (tan δ)	Rated voltage(V)	25	35	50	63	(20°C · 120 Hz)
	tan δ (Max.)	0.14	0.12	0.10	0.08	
Temperature Characteristics (Impedance ratio at 100 KHz)	$Z (-25°C) / Z (+20°C) < 2.0$ $Z (-55°C) / Z (+20°C) < 2.5$					
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 1,000 hours at 150°C.					
	Capacitance change	≤ ± 30% of the initial value				
	D. F. (Tan δ)	≤ 200% of initial specified value				
	ESR	≤ 200% of initial specified value				
	Leakage current	Initial specified value or less				
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 150°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to item 4.1 of JIS C 5101-4.					
	Capacitance change	≤ ± 30% of the initial value				
	D. F. (Tan δ)	≤ 200% of initial specified value				
	ESR	≤ 200% of initial specified value				
	Leakage current	Initial specified value or less				
Bias Humidity Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to the DC rated voltage at 85°C, 85% RH for 2,000 hours.					
	Capacitance change	≤ ± 30% of the initial value				
	D. F. (Tan δ)	≤ 200% of initial specified value				
	ESR	≤ 200% of initial specified value				
	Leakage current	Initial specified value or less				
	Appearance	No significant damage				
Resistance to Soldering heat	The following specifications shall be satisfied when the capacitors are restored to 20°C after the soldering.					
	Capacitance change	≤ ± 10% of the initial value				
	D. F. (Tan δ)	≤ the initial specified value				
	Leakage current	≤ the initial specified value				

■ Dimension



∅D	L	A	B	C	H	E
8	10.0	8.3	8.3	9	0.7~1.1	3.1
10	10.5	10.3	10.3	11	0.7~1.1	4.5

