

Data Sheet

Customer : _____
 Product : Conductive Polymer Aluminum Solid Electrolytic Capacitor
 : SMD Type, Standard, 105°C 5,000Hours – HVM Series
 Size : 6.3x6mm ~ 10x12.8mm
 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 ALUMINUM SOLID ELECTROLYTIC CAPACITORS

SMD type, Standard 5,000 hours

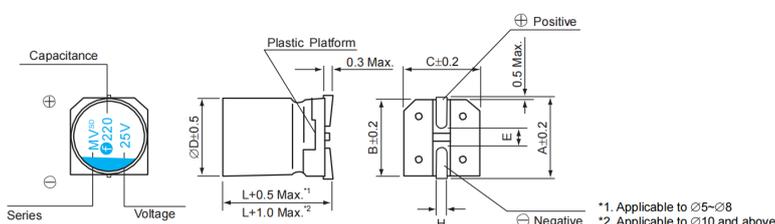
- Low ESR & high ripple current capability
- Endurance: 5,000 hours at 105°C
- Rated Voltage : 2.5V ~ 50V
- Rated capacitance : 15 ~ 3,900 μF

■ SPECIFICATIONS

Item	Performance Characteristics	
Operating Temperature range	-55 + 105°C	
Rated Voltage Range	2.5V ~ 50V	
Capacitance Tolerance	$\pm 20\%$ (at 120 Hz/ 20°C)	
Surge Voltage	Rated Voltage x 1.15	
Leakage Current	Within the specified value as in standard rating	
Dissipation Factor (tan δ)	0.12 or less, less than or equal to the specified value at 20°C and 120Hz	
Temperature Characteristics (Impedance ratio at 100 KHz)	Z (-25°C) / Z (+20°C)	≤ 1.15
	Z (-55°C) / Z (+20°C)	≤ 1.25
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 5,000 hours at 105°C.	
	Capacitance change	$\leq \pm 20\%$ of the initial value
	D. F. (Tan δ)	$\leq 150\%$ of initial specified value
	ESR	$\leq 150\%$ 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 at 60°C, 90 to 95% RH for 1,000 hours.	
	Capacitance change	$\leq \pm 20\%$ of the initial value
	D. F. (Tan δ)	$\leq 150\%$ of initial specified value
	ESR	$\leq 150\%$ of initial specified value
	Leakage current	Initial specified value or less
Surge Voltage Test	The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltage specified At 105°C for 30 seconds through a protective resistor (R=1K Ω) and discharge for 5 minutes 30 seconds.	
	Capacitance change	$\leq \pm 20\%$ of the initial value
	D. F. (Tan δ)	$\leq 150\%$ of initial specified value
	ESR	$\leq 150\%$ of initial specified value
	Leakage current	Initial specified value or less
Failure Rate	0.5% per 1,000 hours maximum (Confidence level 60% at 105°C)	

※ In case of any doubt arises, measure the leakage current after voltage applied for 120 minutes at 105°C.

■ Dimension



ϕD	L	A	B	C	H	E
6.3	6.0	6.6	6.6	7.3	0.5~0.8	2.1
6.3	7.7	6.6	6.6	7.3	0.5~0.8	2.1
8	10.0	8.3	8.3	9	0.8~1.1	3.2
8	12.5	8.3	8.3	9	0.8~1.1	3.2
10	10.5	10.3	10.3	11	0.8~1.1	4.6
10	12.8	10.3	10.3	11	0.8~1.1	4.6

