HITANO
ENTERPRISE CORP. ®

Data Sheet

Customer :

Product : Conductive Polymer Hybrid Aluminum Electrolytic Capacitors

SMD Type, High Temperature, 145℃ 2,000Hours – HHMY Series

Size : 8x10mm ~ 10x10.5mm

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Record of change

Date	Ver.	Description	Page

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01-Sep.-2025	01-Sep.-2025	01-Sep.-2025	
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HITANO ENTERPRISE CORP. ®

HHMY SERIES

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

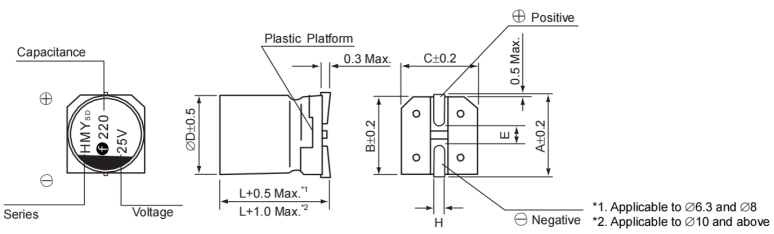
SMD Type, 145°C High Temperature

- High reliability and high voltage realized by hybrid electrolyte
- Endurance: 2,000 hours at 145°C
- Rated Voltage：25V ~ 63V
- Rated capacitance：33 ~ 330 μF
- For high temperature & reliability applications.

■SPECIFICATIONS

Item	Performance Characteristics
Operating Temperature range	-55 + 145°C
Rated Voltage Range	25V ~ 63V
Capacitance Tolerance	± 20% (at 120 Hz/ 20°C)
Leakage Current	I ≦ 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 tan δ (Max.) 0.14 0.12 0.10 0.08 (20°C · 120 Hz)
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 2,000 hours at 145°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 145°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



ØD	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

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

■ Part Numbering (example: 100 µF 50V 10x10.5mm)

H H M Y	1 0 1	M	1 H	C	R	E	1 0 5	S
SERIES	CAPACITANCE	TOL.	W.V.	TYPE	LEAD	DIA.	LENGTH	PRINTING COLOR

■ Standard Products Table

Rated voltage (V.DC)	Rated Capacitance (µF)	Case Size D x L (mm)	tan δ	ESR (mΩ max. 20℃/100 KHz)	Rated ripple current (mA rms/100KHz)	
					≦ 135℃	≦ 145℃
25 (1E)	220	8 x 10	0.14	27	1,600	700
	270	10 x 10.5	0.14	20	2,000	900
	330	10 x 10.5	0.14	20	2,000	900
35 (1V)	150	8 x 10	0.12	27	1,600	700
	220	10 x 10.5	0.12	20	2,000	900
	270	10 x 10.5	0.12	20	2,000	900
50 (1H)	68	8 x 10	0.10	30	1,250	600
	82	10 x 10.5	0.10	28	1,600	800
	100	10 x 10.5	0.10	28	1,600	800
63 (1J)	33	8 x 10	0.08	40	1,100	600
	56	10 x 10.5	0.08	30	1,400	800
	68	10 x 10.5	0.08	30	1,400	800
	82	10 x 10.5	0.08	30	1,400	800

■ Frequency coefficient of allowable ripple current

Frequency	120 Hz < f < 1 KHz	1 KHz < f < 10 KHz	10 KHz < f < 100 KHz	100 KHz < f < 300 KHz
Coefficient	0.20	0.40	0.70	1.00