

HMY Series

Features

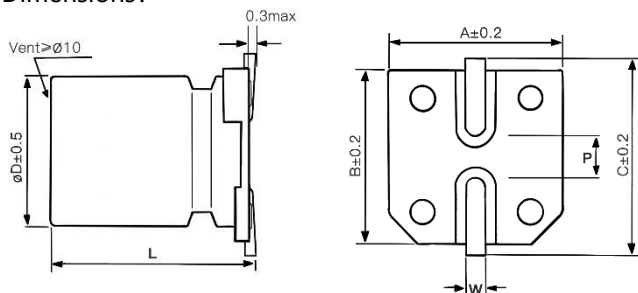
- $\phi 8 \sim \phi 10$, 145°C, 2000 hours assured
- Low ESR and high ripple current
- Designed for reflow soldering
- Vibration resistant structure
- RoHS 2.0 compliant, 247 SVHC & REACH compliant
- AEC-Q200 compliant, Please contact Jarson for more details, test data, information



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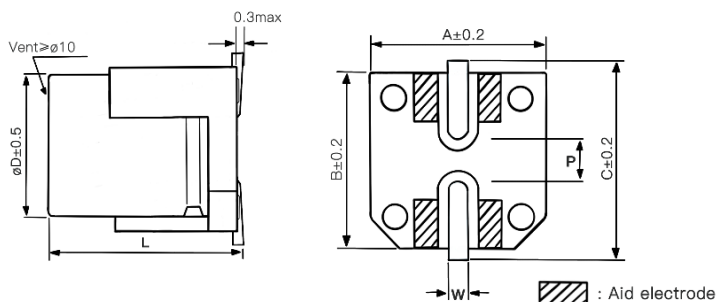
Specifications						
Category temp. range	-55℃ to +145℃					
Capacitance tolerance	±20% (120 Hz / +20 ℃)					
Leakage current	I ≤ 0.01 CV or 3 μA whichever is greater (after 2 minutes)					
Tan δ	Please see the attached characteristics list					
Characteristics at low temperature	Rated voltage (V)	25	35	50	63	Impedance ratio at 120 Hz
	Z (-25 ℃) / Z (+20 ℃)	2.0	2.0	2.0	2.0	
	Z (-55 ℃) / Z (+20 ℃)	2.5	2.5	2.5	2.5	
Endurance	After applying rated working voltage and rated ripple current for 2000 hours at +145 ℃/+135 ℃ ± 2 ℃, and then being stabilized at +20 ℃, capacitors shall meet the following limits.					
	Capacitance change	Within ±30% of the initial value				
	Dissipation factor (tan δ)	Less than 200% of the initial value				
	ESR	Less than 200% of the initial value				
	Leakage current	Within the initial limit				
Shelf life	After storage for 1000 h at +145 ℃ ± 2 ℃ with no voltage applied and then being stabilized at +20 ℃, capacitors shall meet the limits specified in endurance.					
Resistance to soldering heat	After reflow soldering and then being stabilized at +20 ℃, capacitors shall meet the following limits.					
	Capacitance change	Within ±10% of the initial value				
	Dissipation factor (tan δ)	Within the initial limit				
	ESR	Within the initial limit				
	Leakage current	Within the initial limit				
Frequency correction	Frequency	120≤ f < 1k	1k≤ f < 10k	10k≤ f < 100k	100k≤ f < 500k	
factor for ripple current	Correction Factor	0.1	0.3	0.6	1.0	

Dimensions:

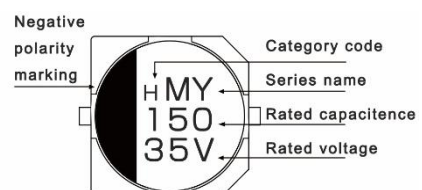


Dimensions						Unit: mm
ϕD	L	A	B	C	W	P ± 0.2
8	10 ± 0.5	8.3	8.3	9.1	0.7~1.3	3.1
10	10.5 ± 0.5	10.3	10.3	11.1	0.7~1.3	4.4

Vibration resistant structure:



Marking:



Part Number System:

Conductive Polymer Hybrid Capacitors HMY series 25V 220μF ±20 % 8 φ x10L

H **MY** **1E** **221** **M** **0810**

Product category Series name Rated voltage Capacitance Capacitance tolerance Case Size

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification				Part Number④	Taping&Reel
		øD (mm)	L (mm)	Rated ripple current① (mA rms)		ESR② (mΩ)	tan δ③		MPQ (pcs/reel)
				Endurance1 (+135℃)	Endurance2 (+145℃)				
25	220	8	10	1600	700	27	0.14	HMY1E221M0810	500
	330	10	10.5	2000	900	20	0.14	HMY1E331M1010	500
35	150	8	10	1600	700	27	0.12	HMY1V151M0810	500
	220	10	10.5	2000	900	20	0.12	HMY1V221M1010	500
	270	10	10.5	2000	900	20	0.12	HMY1V271M1010	500
50	68	8	10	1250	600	30	0.10	HMY1H680M0810	500
	100	10	10.5	1600	800	28	0.10	HMY1H101M1010	500
63	33	8	10	1100	600	40	0.08	HMY1J330M0810	500
	56	10	10.5	1400	800	30	0.08	HMY1J560M1010	500
	82	10	10.5	1400	800	30	0.08	HMY1J820M1010	500

① Rated ripple current (100kHz / +145°C) ② ESR (100kHz / +20°C) ③ tan δ (120Hz / +20°C)

④ For Vibration resistant structure, the Part Number is appended with "v" at the end.

※Please refer to the page of reflow conditions for reflow profile.