

# HMW Series

## Features

- $\phi 8 \sim \phi 10$ , 150°C, 1000 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

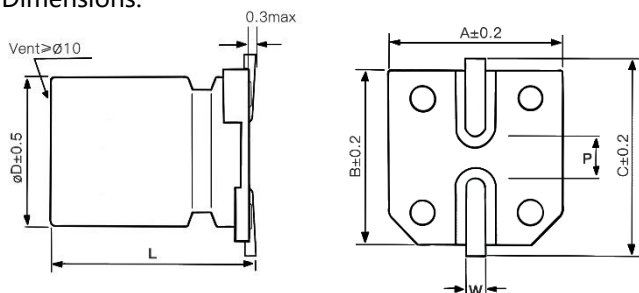


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## Specifications

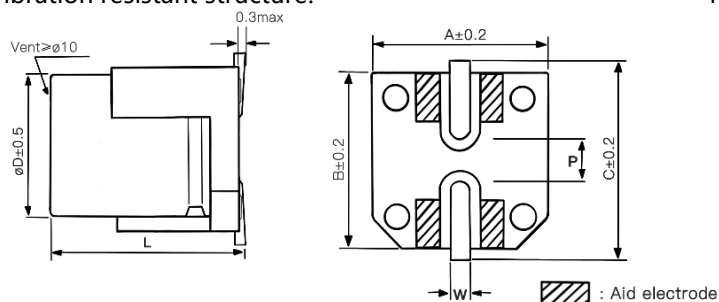
Category temp. range	-55℃ to +150℃					
Capacitance tolerance	±20% (120 Hz / +20 ℃)					
Leakage current	I ≤ 0.01 CV or 3 μA whichever is greater (after 2 minutes)					
Tan δ	Please see the attached characteristics list					
Characteristics at low temperature	Rated voltage (V)	25	35	50	63	Impedance ratio 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 1000 hours at +150 ℃ ± 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 +150 ℃ ± 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 factor for ripple current	Frequency	120s f < 1k	1k≤ f < 10k	10k≤ f < 100k	100k≤ f < 500k	
	Correction Factor	0.1	0.3	0.6	1.0	

## Dimensions:

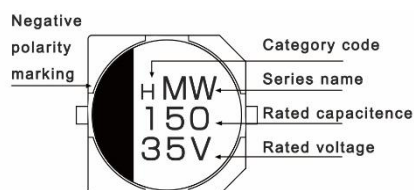


Dimensions						Unit: mm
$\phi D$	L	A	B	C	W	$P \pm 0.2$
8	$10 \pm 0.5$	8.3	8.3	9.1	0.7~1.3	3.1
10	$10.5 \pm 0.5$	10.3	10.3	11.1	0.7~1.3	4.4

## Vibration resistant structure:



## Marking:



Part Number System:

Conductive Polymer Hybrid Capacitors	HMW series	25V	150μF	±20 %	8 φ x10L
<u>H</u>	<u>MW</u>	<u>1E</u>	<u>151</u>	<u>M</u>	<u>0810</u>
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)	Imp.② (Ω)	tan δ③		MPQ (pcs/reel)
25	150	8	10	800	27	0.14	HMW1E151M0810	500
	270	10	10.5	1000	20	0.14	HMW1E271M1010	500
35	100	8	10	770	30	0.12	HMW1V101M0810	500
	150	10	10.5	950	23	0.12	HMW1V151M1010	500
50	56	8	10	700	35	0.10	HMW1H560M0810	500
	100	10	10.5	900	28	0.10	HMW1H101M1010	500
63	33	8	10	650	40	0.08	HMW1J330M0810	500
	56	10	10.5	840	30	0.08	HMW1J560M1010	500

① Rated ripple current (100kHz / +150℃)    ② ESR (100kHz / +20℃)    ③ tan δ (120Hz / +20℃)

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.