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JARSON ELECTRONICS

Conductive Polymer Hybrid Capacitors



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2026
CAPACITOR CATALOG

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Conductive Polymer Hybrid Capacitors

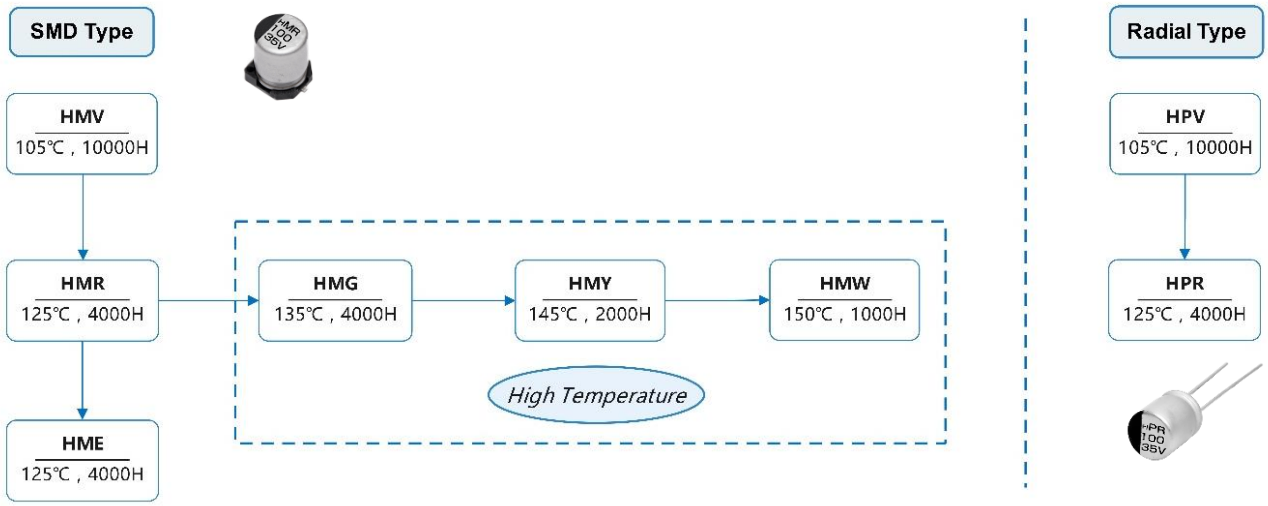
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Product Group Chart

- ***Conductive Polymer Hybrid Capacitors***



Capacitor Series Table

- ***Conductive Polymer Hybrid Capacitors***

Series Name		Features	Endurance	Rated Voltage Range(V)	Capacitance Range(μF)	Page
SMD Type	HMV	Ultra Low ESR, Long Life	105℃, 5000~10000H	10~80	10~560	10
	HMR	High Temperature Usage,125℃	125℃, 4000H	16~80	10~820	13
	HME	125℃, Higher R.C.	125℃, 4000H	25~63	33~470	16
	HMG	High Temperature Usage,135℃	135℃, 4000H	25~63	22~560	18
	HMY	High Temperature Usage,145℃	145℃, 2000H	25~63	33~330	20
	HMW	High Temperature Usage,150℃	150℃, 1000H	25~63	33~270	22
Radial Type	HPV	Ultra Low ESR, Long Life	105℃, 10000H	16~80	22~560	24
	HPR	High Temperature Usage,125℃	125℃, 4000H	16~80	22~680	26

All product specifications in the catalog are subject to change without notice. Ask factory for the current technical specifications before purchase. (CAT.2026C1)

Taping Specifications for SMD type:

1.Carrier Tape

Fig. 1-1 φD≤10

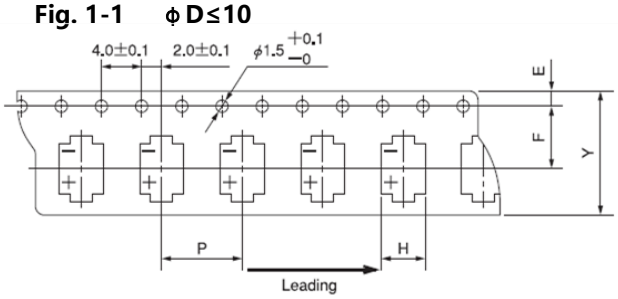
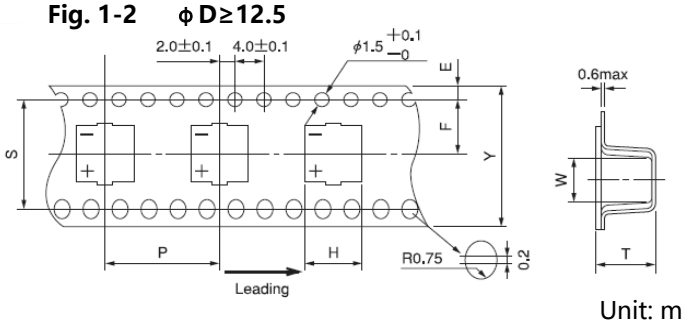


Fig. 1-2 φD≥12.5

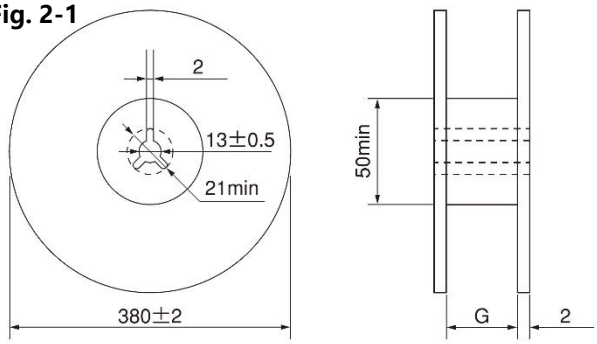


Unit: mm

Type	φD×L	Y±0.3	H±0.2	W±0.2	P±0.1	E±0.1	F±0.1	T±0.2	S±0.1	Fig.No.
SMD	φ4×5.4	12.0	5.0	5.0	8.0	1.75	5.5	5.8	/	1-1
	φ4×5.7/5.8							6.2		1-1
	φ5×5.4		6.0	6.0	12.0			5.8		1-1
	φ5×5.7/5.8							6.2		1-1
	φ5×7.0							7.4		1-1
	φ6.3×5.4	16.0	7.0	7.0			7.5	5.8		1-1
	φ6.3×5.7/5.8							6.2		1-1
	φ6.3×7.0/7.7							8.2		1-1
	φ6.3×8.7							9.3		1-1
	φ8×6.5		8.7	8.7				7.0		1-1
	φ8×10.5	24.0			16.0		11.5	11.0		1-1
	φ8×13							13.5		1-1
	φ10×7.7		10.7	10.7				8.5		1-1
	φ10×10.5							11.0		1-1
	φ10×13							13.5		1-1
	φ12.5×13.5	32.0	13.7	13.7	24.0		14.2	14.5	28.5	1-2
	φ12.5×16.0							16.5		1-2
Hybrid	φ5×6	16.0	6.0	6.0	12.0	1.75	5.5	6.3	/	1-1
	φ6.3×6		7.0	7.0			7.5			1-1
	φ6.3×7.7							8.3		1-1
	φ8×6.5		8.7	8.7				7.0		1-1
	φ8×10	24.0			16.0		11.5	11.0		1-1
	φ10×10.5		10.7	10.7				11.0		1-1
	φ10×12.5							13.2		1-1
	φ10×16.5							17.5		1-1

2.Reel Package

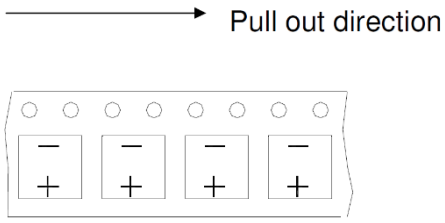
Fig. 2-1



Unit: mm

Case size	G
Φ4~5	14
Φ6.3	18
Φ8×6.5	18
Φ8	26
Φ10	26
Φ12.5	34

Fig. 2-2



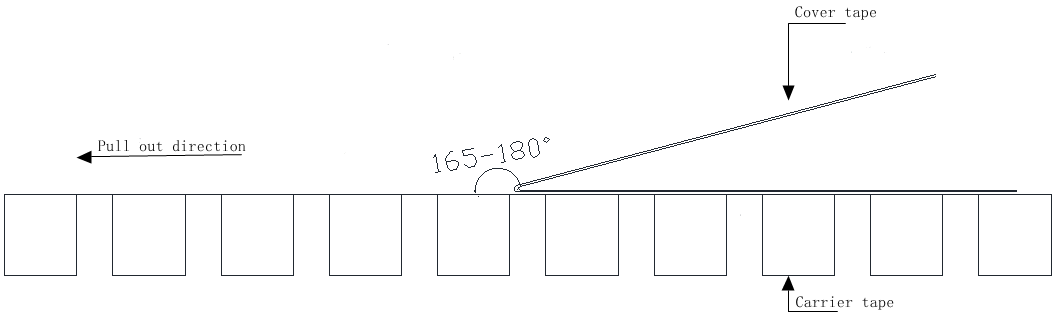
3.Sealing Tape Reel Strength

3.1 Peel angle: 165 to 180° referred to the surface on which the tape is glued.

3.2 Peel speed: 300mm per minutes

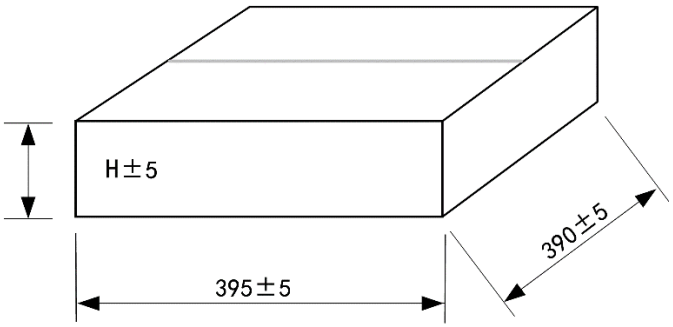
3.3 The peel strength must be 0.1 ~ 0.7N under these conditions.

Fig. 3-1



4. Package Quantity

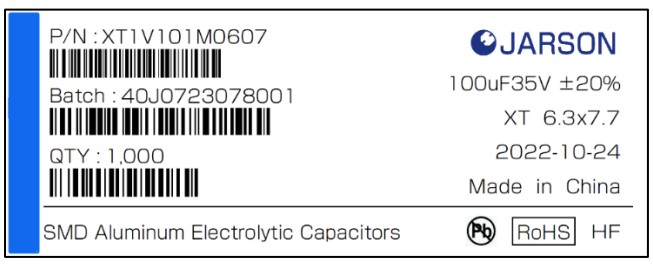
Fig. 4-1

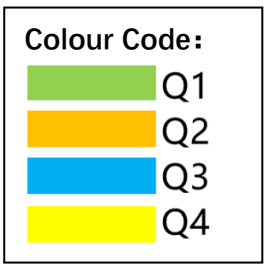


Case size	pcs/reel	reels/Box	pcs/Box
Φ4	2,000	10	20,000
Φ5	1,000	10	10,000
Φ6.3	1,000	10	10,000
Φ8×6.5	1,000	10	10,000
Φ8×10.5	500	10	5,000
Φ8×13	400	10	4,000
Φ10×7.7~10.5	500	10	5,000
Φ10×12.8~13	400	10	4,000
Φ10×16.5	300	10	3,000
Φ12.5×13.5	200	8	1,600
Φ12.5×16	200	8	1,600

Case size	Φ4~Φ5	Φ6.3, Φ8×6.5	Φ8~Φ12.5
H	205	245	325

Fig. 4-2 Label: 105mm × 38mm

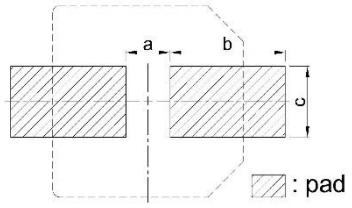




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Reflow Conditions for SMD type

1.Recommended pad pattern and size



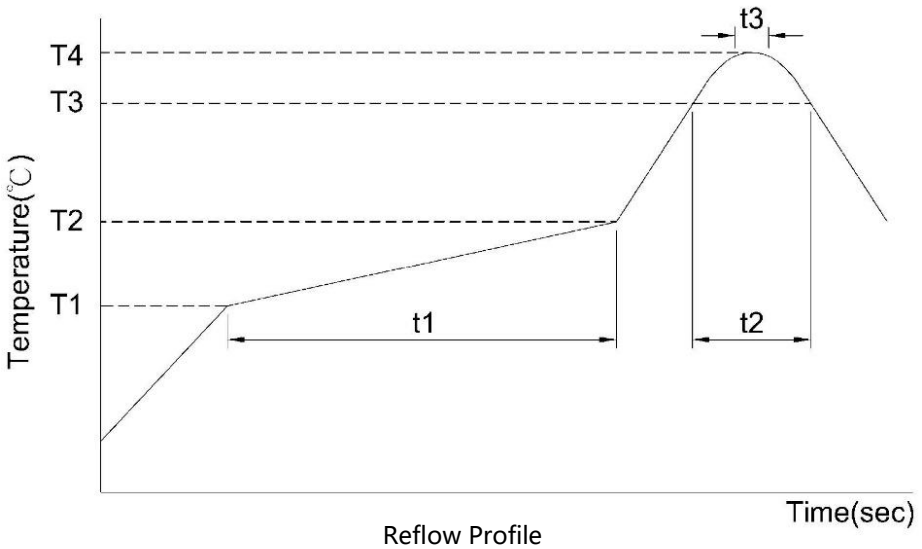
Unit: mm

Case size	Land size		
	a	b	c
Φ4	1.0	2.6	1.8
Φ5	1.4	3.0	1.8
Φ6.3	1.9	3.5	1.8
Φ8	3.0	4.0	2.5
Φ10	4.0	4.0	2.5
Φ12.5	4.0	6.0	3.0

2.Recommended Soldering Methods

2.1 Solder iron method: Bit temperature: 350 ± 5℃, Application time of soldering Iron: 3 +1/-0 sec

2.2 Reflow Soldering（Pb-free）:



Reflow Profile

Rated voltage (V)		4~50		≥63	4~100		≥160
Case size (Φ)		4~6.3		4~6.3	8~18		6.3~18
Preheat	Temp. (T1~T2, ℃)	150-180					
	Time (t1) (Max, secs)	100					
Duration	Temp. (T3, ℃)	217	230	217	217	230	217
	Time (t2) (Max, secs)	90	40	60	60	40	40
Peak	Temp. (T4, ℃)	260		250	250		245
	Time (t3, secs)	5					
Reflow cycles		≤ 2					

※Please contact our representative if your condition is higher.

※Please ensure that the capacitor became cold enough to the room temperature (5~35℃)before the second reflow. Do not attempt to reflow three times.

Precautions and Guidelines for Using Aluminum Electrolytic Capacitors and Conductive Polymer Hybrid Capacitors

1. Guidelines for Circuit Design

(1) Polarity

Aluminum electrolytic capacitors are polarized. Make sure of the polarity, if used in reverse polarity, the circuit life may be shortened or the capacitor may be damaged. When the polarity in a circuit sometimes can be reversed or unknown, a bi-polar capacitor shall be used. Also, note that DC capacitors cannot be used for AC application.

(2) Operating Voltage

Do not apply DC voltage, which exceeds the rated voltage of the capacitor and not be reverse voltage. If a voltage exceeding the capacitor’ s voltage rating is applied, the capacitor may be damaged as leakage current increase. Using capacitors at recommended working voltage prolongs capacitor life. The surge voltage rating is the maximum DC over-voltage to which the capacitors may be subjected of short periods.

(3) Ripple Current

The combined value of DC voltage and the peak AC voltage shall not exceed the rated voltage. When an excessive ripple current passes, the capacitor may be damaged with the vent operating, etc. Use the electrolytic capacitor within the permissible ripple range current at specified frequency and temperature.

(4) Operating Temperature

Use the capacitors according to the specified operating temperature range. If used the capacitor outside the maximum rated temperature will considerably shorten the life or cause the capacitor to vent. Usage at room ambient will ensure longer life.

(5) Leakage Current

The leakage current shall be within specified levels. When capacitors are applied at a lower voltage, the actual leakage current will be reduced proportionately.

(6) Charge and Discharge

The capacitor is not suitable for a circuit in which charge and discharge are frequently repeated. The capacitance value may drop by forming oxide layer on the cathode foil, or the capacitor may be damaged by generating heat due to continuous rapid charge and discharge.

(7) Surge Voltage

The Surge voltage rating is referred as the maximum DC overvoltage that may be applied to an electrolytic capacitor for a short time. Unless otherwise described on the catalogue or product specifications, please do not apply a voltage exceeding the capacitor’ s voltage rating. The rated surge voltages corresponding to rated voltages of electrolytic capacitor are presented as follows:

Rated Voltage（V）	4	6.3	10	16	25	35	50	63	80	100
Surge Voltage（V）	4.6	7.3	11.5	18.4	28.8	40.3	57.5	72.5	92	115
Rated Voltage（V）	160	180	200	250	315	350	400	420	450	500
Surge Voltage（V）	184	207	230	288	347	385	440	462	495	550

(8) Condition of Use

(a) The capacitors shall not be exposed to water, saltwater spray, oil or fumes, high humidity or humidity condensation and direct sunlight.

(b) Ambient conditions that include hazardous gases / fumes such as hydrogen sulfide, sulfurous acid, nitrous acid, chlorine or bromine gas, ammonia, etc.

(c) Exposed to ozone, ultraviolet rays and radiation.

(d) Severe vibration or physical shock that exceeds the condition in specification sheets.

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(9) Consideration to Circuit Design

(a) Please make sure the application and mounting conditions that the capacitor will be used are within the conditions specified in the catalog. If the conditions are beyond the conditions specified in the catalog, please contact us.

(b) Do not design a circuit board so that heat-generating components are places near an aluminum electrolytic capacitor or reverse side of PCB. A cooling system is recommended.

(c) Operating temperature, applied voltage and ripple current shall be within specification. The ambient temperature shall not exceed the operating temperature and applied ripple current shall not exceed the allowable ripple current specified in the specification.

(d) Performances of electrical characteristics of aluminum electrolytic capacitors are affected by variation of operating temperature and frequency. Consider this variation designing the circuit.

(e) When two or more aluminum capacitors are connected in parallel, consider the current balance that flow through the capacitors.

(f) If more than two capacitors are connected in series, make sure the applied voltage will be lower than the rated voltage and that voltage will be applied to each equally using a balancing resistor in parallel with each capacitor.

(g) Do not tilt lay down or twist the capacitor’ s body after the capacitor is soldered to the PCB.

2. Caution for Assembling Capacitors

(1) Mounting

(a) Aluminum electrolytic capacitors cannot be re-used once the capacitor has assembled in the set and power applied.

(b) Aluminum electrolytic capacitors may have electrical potential between positive and negative terminal, please discharge through a 1KΩ resistor before use.

(c) Please confirm the rated voltage before mounting.

(d) Please confirm the polarity before mounting.

(e) Do not use the capacitor that once dropped on the hard floor.

(f) Do not damage the capacitor while mounting.

(g) Capacitors shall be mounted that hold spacing on PCB matches the lead pitch of the capacitors.

(h) During the auto-insertion process and parts inspection, capacitors shall avoid the excessive force and shock.

(i) Do not design to locate any wiring or circuit around the capacitor’ s pressure relief vent. The following clearance should be made above the pressure relief vent. The pressure relief vent will not open without the appropriate free space.

Case Diameter	φ6.3 ~ φ16	φ18 ~ φ35
Clearance(mm)	2 mm	3 mm

(2) Soldering

(a) Be careful of temperature and time when soldering. Dip of flow soldering of the capacitors should be limited at less than 260±5℃ and 10±1 seconds or soldering iron with 350±10℃ for 3+1/-0 seconds . Do not dip capacitor’ s body into melted solder.

(b) High humidity will affect the solder ability of lead wire and terminals. High temperature will reduce long-term operating life.

(c) Except SMD type, reflow soldering cannot be used for any types of aluminum electrolytic capacitors. When using SMD type capacitor, please check the reflow profile. The temperature and duration shall not exceed the specified

temperature and duration in the specification. If the temperature or duration is higher than the value specified, please consult us before usage.

(d) Standard aluminum electrolytic capacitors cannot withstand more than 2 reflow process. Please consult our engineering department when needed.

(3) Cleaning Circuit Boards After Soldering

Do not use following chemicals for cleaning: Solvent containing halogen ions, Alkaline solvent, Xylene, Acetone, Terpene, petro-based solvent.

3. Maintenance Inspection

Periodical inspection is necessary for using the aluminum capacitors with industrial equipment. The following items should be checked:

(1) Appearance: Bloated, vent operation, leaking electrolyte, etc.

(2) Electrical characteristic: Capacitance, dissipation factor, leakage current, and other specified items listed in specification. We recommend replacing the capacitors if the parts are out of specification.

4. Storage

(1) Aluminum electrolytic capacitor should not be stored in high temperature or high humidity condition. The suitable condition is 5℃ ~ 35℃ and less than 75% in relative humidity indoor.

(2) Do not store the capacitors in damp conditions such as water, brine or oil.

(3) Do not store the capacitors that exposed to hazardous gas such as hydrogen sulfide, sulfurous acid, nitrous acid, chlorine, ammonium, etc.

(4) Do not store the capacitors that exposed to ozone, ultraviolet rays or radiation.

(5) Do not expose the capacitors to acidic or alkaline solutions.

5. Disposal

Please consult with a local industrial waste disposal specialist when disposing of aluminum electrolytic capacitors.

6. Environmental Consideration

We already have received ISO 14001 certificate. Cadmium (Cd), Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr+6), PBB, PBDE, DEHP, BBP, DBP and DIBP have never been using in capacitor. All the capacitors are If you need "Halogen-free" products, please consult with us.

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Part Number System - Conductive Polymer Hybrid Capacitors

Product Code Guide

e.g.: Product 100μF /35V，±20%，6.3x7.7，HMR series（P/N：HMR1V101M0607）

Hybrid E-cap	HMR series	35V	100μF	±20 %	6.3 ϕ x7.7L		
H	**MR**	**1V**	**101**	**M**	**0607**	□□	
①	②	③	④	⑤	⑥	⑧	⑦
Product category	Series name	Rated voltage	Capacitance	Capacitance tolerance	Case Size	Package (For radial type only)	Supplement Code

① Product category:

A	C	H	L	M	R
SMD type E-Cap	Conductive Polymer Solid Capacitor	Conductive Polymer Hybrid capacitor	Snap-in type E-Cap	Screw type E-Cap	Radial type E-Cap

② Series name

③ Rated voltage: Rated voltage in volts (V) is represented by a two-digit code.

Volt.	10	16	25	35	50	63	80
Code	1A	1C	1E	1V	1H	1J	1K

④ Capacitance: Capacitance in μF is represented by a three-digit code. The first two digits are significant and the third digit indicates the number of zeros following the significant figure.

e.g.:

Capacitance	10	22	33	47	100	220	330	470	560	820
Part number	100	220	330	470	101	221	331	471	561	821

⑤ Capacitance tolerance

M = ±20%	K = ±10%

⑥ Case Size: The first two digits indicate case diameter and the last two digits indicate case length in mm

SMD	ϕD×L	5x6	6.3x6	6.3x7.7	8x6.5	8x10	10x10.5	10x12.5	10x16.5
Type	**Code**	**0506**	**0606**	**0607**	**0806**	**0810**	**1010**	**1013**	**1016**
Radial	ϕD×L	6.3x6	6.3x8	8x9	10x10.5	10x12			
Type	**Code**	**0606**	**0608**	**0809**	**1010**	**1012**			

⑦ Supplement Code (Optional): For special control purposes

None = General Purpose	a = Automotive	v = Vibration resistant structure

⑧ Package: For radial type only

BK = Bulk package	SA = Straight Leader Taping

HMV Series

Features

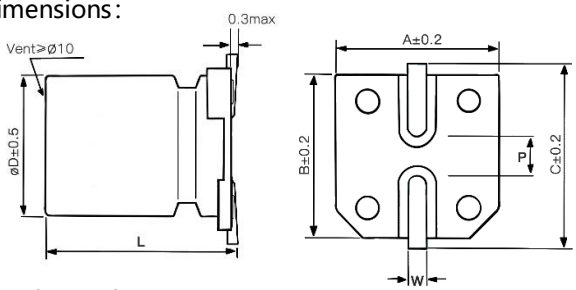
- φ5 ~ φ10, 105℃, 5000~10000 hours assured
- Low ESR and high ripple current
- Designed for reflow soldering
- Vibration resistant structure
- RoHS compliant, REACH & SVHC compliant
- AEC-Q200 compliant, Please contact Jarson for more details, test data, information



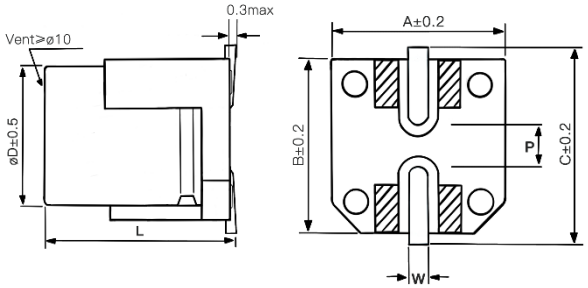
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Specifications					
Category temp. range	−55℃ to +105℃				
Capacitance tolerance	±20% (120 Hz / +20 ℃)				
Leakage current	I ≦ 0.01 CV or 3 μA whichever is greater (after 2 minutes)				
Tan δ	Please see the attached characteristics list				
Characteristics at low temperature	Z(-25 ℃) / Z(+20 ℃)≤2.0	Max. Impedance ratio at 100 kHz			
	Z(-55 ℃) / Z(+20 ℃)≤2.5				
Endurance	After applying rated working voltage and rated ripple current for 5000/10000 hours at +105 ℃ ± 2 ℃, and then being stabilized at +20 ℃, capacitors shall meet the following limits.				
	Test Time	5 φx6 L , 6.3 φx6 L: 5000H 6.3 φx7.7L , ΦD ≧ 8mm: 10000H			
	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 +105 ℃ ± 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			
Ripple Current and Frequency Multipliers	Frequency	120≤ f < 1k	1k≤ f < 10k	10k≤ f < 100k	100k≤ f < 500k
	Multiplier	0.1	0.3	0.6	1.0

Dimensions:

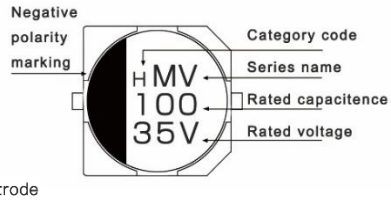


Vibration resistant structure:



Dimensions						Unit: mm
φD	L	A	B	C	W	P±0.2
5	6±0.5	5.3	5.3	6.0	0.5~0.8	1.4
6.3	6±0.5	6.6	6.6	7.3	0.5~0.8	2.0
6.3	7.7±0.5	6.6	6.6	7.3	0.5~0.8	2.0
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
10	12.5±0.5	10.3	10.3	11.1	0.7~1.3	4.4

Marking:



: Aid electrode

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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)
10	100	5	6	800	80	0.18	HMV1A101M0506	1000
16	22	5	6	800	80	0.16	HMV1C220M0506	1000
	47	6.3	6	1300	50	0.16	HMV1C470M0606	1000
	82	6.3	6	1300	50	0.16	HMV1C820M0606	1000
	150	6.3	7.7	2000	30	0.16	HMV1C151M0607	1000
	270	8	10	2300	27	0.16	HMV1C271M0810	500
	470	10	10.5	2500	20	0.16	HMV1C471M1010	500
	560	10	12.5	2900	16	0.16	HMV1C561M1013	400
25	22	5	6	800	80	0.14	HMV1E220M0506	1000
	33	5	6	800	80	0.14	HMV1E330M0506	1000
	47	6.3	6	1300	50	0.14	HMV1E470M0606	1000
	56	6.3	6	1300	50	0.14	HMV1E560M0606	1000
	68	6.3	7.7	2000	30	0.14	HMV1E680M0607	1000
	100	6.3	7.7	2000	30	0.14	HMV1E101M0607	1000
	150	8	10	2300	27	0.14	HMV1E151M0810	500
	220	8	10	2300	27	0.14	HMV1E221M0810	500
	330	10	10.5	2500	20	0.14	HMV1E331M1010	500
	470	10	12.5	2900	16	0.14	HMV1E471M1013	400
35	10	5	6	800	80	0.12	HMV1V100M0506	1000
	22	5	6	800	80	0.12	HMV1V220M0506	1000
	27	6.3	6	1300	60	0.12	HMV1V270M0606	1000
	33	6.3	6	1300	60	0.12	HMV1V330M0606	1000
	47	6.3	6	1300	60	0.12	HMV1V470M0606	1000
	68	6.3	7.7	2000	35	0.12	HMV1V680M0607	1000
	100	8	10	2300	27	0.12	HMV1V101M0810	500
	150	8	10	2300	27	0.12	HMV1V151M0810	500
	220	10	10.5	2500	20	0.12	HMV1V221M1010	500
	270	10	10.5	2500	20	0.12	HMV1V271M1010	500
	330	10	12.5	2900	16	0.12	HMV1V331M1013	400
50	10	6.3	6	1100	80	0.10	HMV1H100M0606	1000
	22	6.3	6	1100	80	0.10	HMV1H220M0606	1000
	33	6.3	7.7	1600	40	0.10	HMV1H330M0607	1000
	47	8	10	1800	30	0.10	HMV1H470M0810	500
	68	8	10	1800	30	0.10	HMV1H680M0810	500
	100	10	10.5	2000	28	0.10	HMV1H101M1010	500
63	10	6.3	6	1000	120	0.08	HMV1J100M0606	1000
	22	6.3	7.7	1500	80	0.08	HMV1J220M0607	1000
	33	8	10	1700	40	0.08	HMV1J330M0810	500
	47	8	10	1700	40	0.08	HMV1J470M0810	500
	68	10	10.5	1800	30	0.08	HMV1J680M1010	500
	82	10	10.5	1800	30	0.08	HMV1J820M1010	500
	100	10	12.5	2000	27	0.08	HMV1J101M1013	400

① Rated ripple current (100kHz / +105℃) ② ESR (100kHz / +20℃) ③ tan δ (120Hz / +20℃)

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

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)
80	22	8	10	1300	45	0.08	HMV1K220M0810	500
	33	10	10.5	1600	36	0.08	HMV1K330M1010	500
	47	10	10.5	1600	36	0.08	HMV1K470M1010	500

① Rated ripple current (100kHz / +105℃) ② ESR (100kHz / +20℃) ③ tan δ (120Hz / +20℃)

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

Part Number System:

Hybrid E-cap	HMV series	25V	100μF	±20 %	6.3 φ x7.7L	
H	**MV**	**1E**	**101**	**M**	**0607**	
Category	Series name	Rated voltage	Capacitance	Tolerance	Case Size	Supplement

④ Note: For more details, please refer to "Part Number System - Conductive Polymer Hybrid Capacitors"

All product specifications in the catalog are subject to change without notice. Ask factory for the current technical specifications before purchase. (CAT.2026C1)

HMR Series

Features

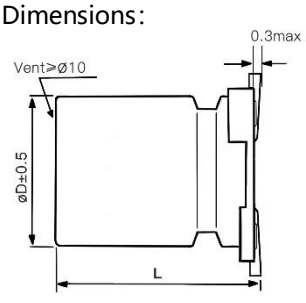
- φ6.3 ~ φ10, 125℃, 4000 hours assured
- Low ESR and high ripple current
- Designed for reflow soldering
- Vibration resistant structure
- RoHS compliant, REACH & SVHC compliant
- AEC-Q200 compliant, Please contact Jarson for more details, test data, information

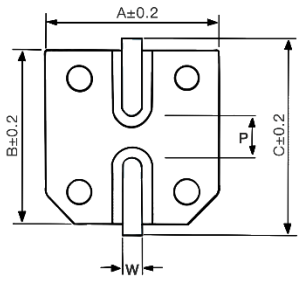


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Specifications					
Category temp. range	−55℃ to +125℃				
Capacitance tolerance	±20% (120 Hz / +20 ℃)				
Leakage current	I ≦ 0.01 CV or 3 μA whichever is greater (after 2 minutes)				
Tan δ	Please see the attached characteristics list				
Characteristics at low temperature	Z (-25 ℃) / Z (+20 ℃)≤2.0	Max. Impedance ratio at 100 kHz			
	Z (-55 ℃) / Z (+20 ℃)≤2.5				
Endurance	After applying rated working voltage and rated ripple current for 4000 hours at +125 ℃ ± 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 +125 ℃ ± 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			
Ripple Current and Frequency Multipliers	Frequency	120≤ f < 1k	1k≤ f < 10k	10k≤ f < 100k	100k≤ f < 500k
	Multiplier	0.1	0.3	0.6	1.0

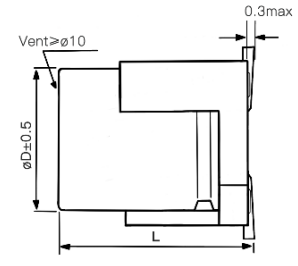
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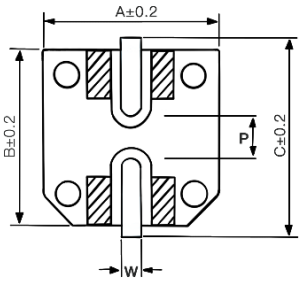




Dimensions						Unit: mm
φD	L	A	B	C	W	P±0.2
6.3	6±0.5	6.6	6.6	7.3	0.5~0.8	2.0
6.3	7.7±0.5	6.6	6.6	7.3	0.5~0.8	2.0
8	6.5±0.5	8.3	8.3	9.1	0.7~1.3	3.1
8	10±0.5	8.3	8.3	9.1	0.7~1.3	3.1
10	10.5±0.5	10.3	10.3	11.1	0.7~1.3	4.4
10	12.5±0.5	10.3	10.3	11.1	0.7~1.3	4.4

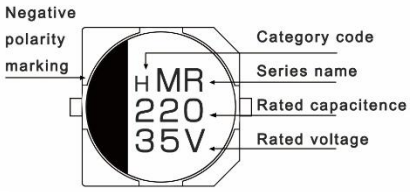
Vibration resistant structure:





: Aid electrode

Marking:



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)
16	82	6.3	6	900	50	0.16	HMR1C820M0606	1000
	100	6.3	6	900	50	0.16	HMR1C101M0606	1000
	150	6.3	7.7	1400	30	0.16	HMR1C151M0607	1000
	220	6.3	7.7	1400	30	0.16	HMR1C221M0607	1000
	270	8	10	1600	27	0.16	HMR1C271M0810	500
	470	10	10.5	2000	20	0.16	HMR1C471M1010	500
	560	10	10.5	2000	20	0.16	HMR1C561M1010	500
		10	12.5	2550	18	0.16	HMR1C561M1013	400
	820	10	10.5	2000	20	0.16	HMR1C821M1010	500
		10	12.5	2800	18	0.16	HMR1C821M1013	400
25	33	6.3	6	900	50	0.14	HMR1E330M0606	1000
	47	6.3	6	900	50	0.14	HMR1E470M0606	1000
	56	6.3	6	900	50	0.14	HMR1E560M0606	1000
	68	6.3	6	900	50	0.14	HMR1E680M0606	1000
		6.3	7.7	1400	30	0.14	HMR1E680M0607	1000
	100	6.3	7.7	1400	30	0.14	HMR1E101M0607	1000
	150	6.3	7.7	1400	30	0.14	HMR1E151M0607	1000
		8	10	1600	27	0.14	HMR1E151M0810	500
	220	8	10	1600	27	0.14	HMR1E221M0810	500
	270	8	10	1600	27	0.14	HMR1E271M0810	500
	330	8	10	1600	27	0.14	HMR1E331M0810	500
		10	10.5	2000	20	0.14	HMR1E331M1010	500
	470	10	10.5	2000	20	0.14	HMR1E471M1010	500
	680	10	12.5	2800	15	0.14	HMR1E681M1013	400
35	33	6.3	6	900	60	0.12	HMR1V330M0606	1000
	47	6.3	6	900	60	0.12	HMR1V470M0606	1000
	68	6.3	7.7	1400	35	0.12	HMR1V680M0607	1000
	100	6.3	7.7	1400	35	0.12	HMR1V101M0607	1000
		8	6.5	1400	35	0.12	HMR1V101M0806	1000
		8	10	1600	27	0.12	HMR1V101M0810	500
	150	8	10	1600	27	0.12	HMR1V151M0810	500
	180	8	10	1600	27	0.12	HMR1V181M0810	500
	220	10	10.5	2000	20	0.12	HMR1V221M1010	500
	270	10	10.5	2000	20	0.12	HMR1V271M1010	500
	330	10	10.5	2000	20	0.12	HMR1V331M1010	500
	470	10	12.5	2800	16	0.12	HMR1V471M1013	400
50	22	6.3	6	750	80	0.10	HMR1H220M0606	1000
	33	6.3	7.7	1100	40	0.10	HMR1H330M0607	1000
	47	8	10	1250	30	0.10	HMR1H470M0810	500
	68	8	10	1250	30	0.10	HMR1H680M0810	500
	100	8	10	1250	30	0.10	HMR1H101M0810	500
		10	10.5	1600	28	0.10	HMR1H101M1010	500
	120	10	10.5	1600	28	0.10	HMR1H121M1010	500
	150	10	10.5	1600	28	0.10	HMR1H151M1010	500
	220	10	12.5	1800	23	0.10	HMR1H221M1013	400

① Rated ripple current (100kHz / +125℃) ② ESR (100kHz / +20℃) ③ tan δ (120Hz / +20℃)

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

All product specifications in the catalog are subject to change without notice. Ask factory for the current technical specifications before purchase. (CAT.2026C1)

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)
63	10	6.3	6	700	120	0.08	HMR1J100M0606	1000
	22	6.3	7.7	900	80	0.08	HMR1J220M0607	1000
	33	8	10	1100	40	0.08	HMR1J330M0810	500
	47	8	10	1100	40	0.08	HMR1J470M0810	500
	56	10	10.5	1400	30	0.08	HMR1J560M1010	500
	68	10	10.5	1400	30	0.08	HMR1J680M1010	500
	82	10	10.5	1400	30	0.08	HMR1J820M1010	500
	100	10	10.5	1400	30	0.08	HMR1J101M1010	500
	120	10	12.5	1600	26	0.08	HMR1J121M1013	400
80	22	8	10	1050	45	0.08	HMR1K220M0810	500
	33	8	10	1050	45	0.08	HMR1K330M0810	500
		10	10.5	1350	36	0.08	HMR1K330M1010	500
	47	10	10.5	1350	36	0.08	HMR1K470M1010	500
	56	10	12.5	1550	32	0.08	HMR1K560M1013	400

① Rated ripple current (100kHz / +125℃) ② ESR (100kHz / +20℃) ③ tan δ (120Hz / +20℃)

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

Part Number System:

Hybrid E-cap	HMR series	25V	100μF	±20 %	6.3 ϕ x7.7L	
H	**MR**	**1E**	**101**	**M**	**0607**	
Category	Series name	Rated voltage	Capacitance	Tolerance	Case Size	Supplement

④ Note: For more details, please refer to "Part Number System - Conductive Polymer Hybrid Capacitors"

HME Series

Features

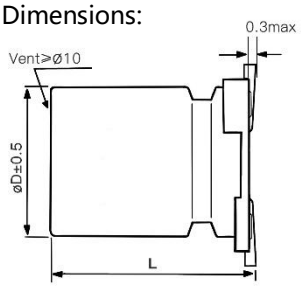
- φ6.3 ~ φ10, 125℃, 4000 hours assured
- Low ESR and high ripple current (Higher than HMR series)
- Designed for reflow soldering
- Vibration resistant structure
- RoHS compliant, REACH & SVHC compliant
- AEC-Q200 compliant, Please contact Jarson for more details, test data, information

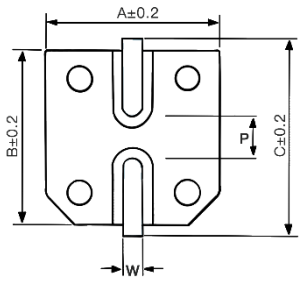


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Specifications					
Category temp. range	−55℃ to +125℃				
Capacitance tolerance	±20% (120 Hz / +20 ℃)				
Leakage current	I ≦ 0.01 CV or 3 μA whichever is greater (after 2 minutes)				
Tan δ	Please see the attached characteristics list				
Characteristics at low temperature	Z(-25 ℃) / Z(+20 ℃)≤2.0	Max. Impedance ratio at 100 kHz			
	Z(-55 ℃) / Z(+20 ℃)≤2.5				
Endurance	After applying rated working voltage and rated ripple current for 4000 hours at +125 ℃ ± 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 +125 ℃ ± 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			
Ripple Current and Frequency Multipliers	Frequency	120≤ f < 1k	1k≤ f < 10k	10k≤ f < 100k	100k≤ f < 500k
	Multiplier	0.1	0.3	0.6	1.0

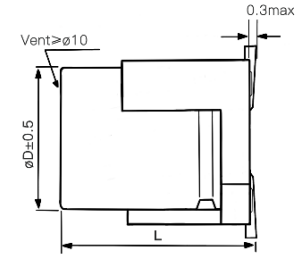
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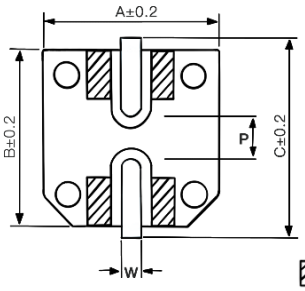




Dimensions						Unit: mm
φD	L	A	B	C	W	P±0.2
6.3	7.7±0.5	6.6	6.6	7.3	0.5~0.8	2.0
8	10±0.5	8.3	8.3	9.1	0.7~1.3	3.1
10	10.5±0.5	10.3	10.3	11.1	0.7~1.3	4.4
10	12.5±0.5	10.3	10.3	11.1	0.7~1.3	4.4

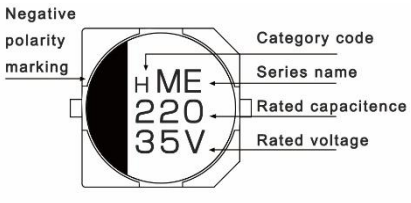
Vibration resistant structure:





: Aid electrode

Marking:



All product specifications in the catalog are subject to change without notice. Ask factory for the current technical specifications before purchase. (CAT.2026C1)

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)
25	150	6.3	7.7	1800	30	0.14	HME1E151M0607	1000
	220	8	10	2900	22	0.14	HME1E221M0810	500
	330	10	10.5	3500	16	0.14	HME1E331M1010	500
	470	10	12.5	4000	14	0.14	HME1E471M1013	400
35	100	6.3	7.7	1700	35	0.12	HME1V101M0607	1000
	150	8	10	2900	22	0.12	HME1V151M0810	500
	220	10	10.5	3400	20	0.12	HME1V221M1010	500
	270	10	10.5	3500	16	0.12	HME1V271M1010	500
50	68	8	10	2700	25	0.10	HME1H680M0810	500
	100	10	10.5	2900	23	0.10	HME1H101M1010	500
	120	10	10.5	2900	23	0.10	HME1H121M1010	500
	150	10	12.5	3500	17	0.10	HME1H151M1013	400
63	33	8	10	2400	32	0.08	HME1J330M0810	500
	47	8	10	2400	32	0.08	HME1J470M0810	500
	68	10	10.5	2800	25	0.08	HME1J680M1010	500
	82	10	10.5	2800	25	0.08	HME1J820M1010	500
	100	10	12.5	3200	20	0.08	HME1J101M1013	400

① Rated ripple current (100kHz / +125℃) ② ESR (100kHz / +20℃) ③ tan δ (120Hz / +20℃)

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

Part Number System:

Hybrid E-cap	HME series	25V	150μF	±20 %	6.3 ϕ x7.7L	
H	**ME**	**1E**	**151**	**M**	**0607**	
Category	Series name	Rated voltage	Capacitance	Tolerance	Case Size	Supplement

④ Note: For more details, please refer to "Part Number System - Conductive Polymer Hybrid Capacitors"

HMG Series

Features

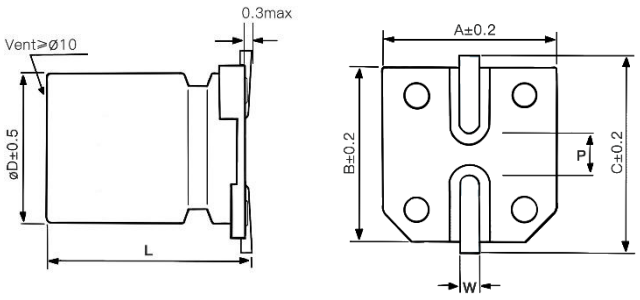
- φ6.3 ~ φ10, 135℃, 2000~4000 hours assured
- Low ESR and high ripple current
- Designed for reflow soldering
- Vibration resistant structure
- RoHS compliant, REACH & SVHC compliant
- AEC-Q200 compliant, Please contact Jarson for more details, test data, information



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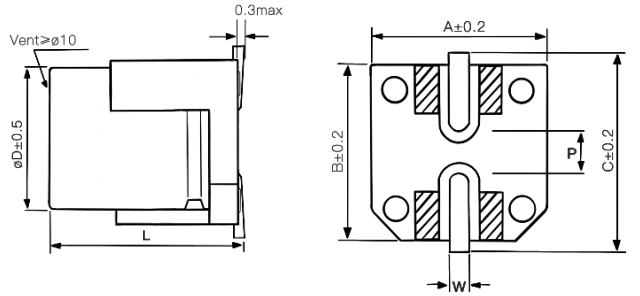
Specifications					
Category temp. range	–55℃ to +135℃				
Capacitance tolerance	±20% (120 Hz / +20 ℃)				
Leakage current	I ≦ 0.01 CV or 3 μA whichever is greater (after 2 minutes)				
Tan δ	Please see the attached characteristics list				
Characteristics at low temperature	Z (-25 ℃) / Z (+20 ℃) ≤ 2.0	Max. Impedance ratio at 100 kHz			
	Z (-55 ℃) / Z (+20 ℃) ≤ 2.5				
Endurance	After applying rated working voltage and rated ripple current for 2000/4000 hours at +135 ℃/+125 ℃ ± 2 ℃, and then being stabilized at +20 ℃, capacitors shall meet the following limits.				
	Test Time	6.3 φ x7.7 L : 2000H φD ≧ 8mm: 4000H			
	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 +135 ℃ ± 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			
Ripple Current and Frequency Multipliers	Frequency	120≤ f < 1k	1k≤ f < 10k	10k≤ f < 100k	100k≤ f < 500k
	Multiplier	0.1	0.3	0.6	1.0

Dimensions:

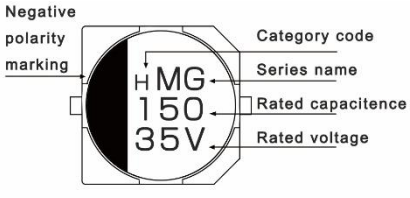


Dimensions						Unit: mm
φD	L	A	B	C	W	P±0.2
6.3	7.7±0.5	6.6	6.6	7.3	0.5~0.8	2.0
8	10±0.5	8.3	8.3	9.1	0.7~1.3	3.1
10	10.5±0.5	10.3	10.3	11.1	0.7~1.3	4.4
10	12.5±0.5	10.3	10.3	11.1	0.7~1.3	4.4
10	16.5±0.5	10.3	10.3	11.1	0.7~1.3	4.4

Vibration resistant structure:



Marking:



All product specifications in the catalog are subject to change without notice. Ask factory for the current technical specifications before purchase. (CAT.2026C1)

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 (+125℃)	Endurance2 (+135℃)				
25	100	6.3	7.7	2200	1400	35	0.14	HMG1E101M0607	1000
	220	8	10	2900	1600	27	0.14	HMG1E221M0810	500
	330	10	10.5	3300	2000	20	0.14	HMG1E331M1010	500
	470	10	12.5	3500	2300	16	0.14	HMG1E471M1013	400
	560	10	16.5	4000	2900	11	0.14	HMG1E561M1016	250
35	68	6.3	7.7	2200	1400	35	0.12	HMG1V680M0607	1000
	150	8	10	2900	1600	27	0.12	HMG1V151M0810	500
	220	10	10.5	3300	2000	20	0.12	HMG1V221M1010	500
	270	10	10.5	3300	2000	20	0.12	HMG1V271M1010	500
	330	10	12.5	3500	2300	16	0.12	HMG1V331M1013	400
	470	10	16.5	4000	2900	11	0.12	HMG1V471M1016	250
50	33	8	10	2200	1250	30	0.10	HMG1H330M0810	500
	47	8	10	2200	1250	30	0.10	HMG1H470M0810	500
	68	8	10	2200	1250	30	0.10	HMG1H680M0810	500
	100	10	10.5	2600	1600	28	0.10	HMG1H101M1010	500
	120	10	10.5	2600	1600	28	0.10	HMG1H121M1010	500
	150	10	12.5	3200	2000	18	0.10	HMG1H151M1013	400
	220	10	16.5	3700	2600	13	0.10	HMG1H221M1016	250
63	22	8	10	1900	1100	40	0.08	HMG1J220M0810	500
	33	8	10	1900	1100	40	0.08	HMG1J330M0810	500
	47	8	10	1900	1100	40	0.08	HMG1J470M0810	500
	56	10	10.5	2300	1400	30	0.08	HMG1J560M1010	500
	68	10	10.5	2300	1400	30	0.08	HMG1J680M1010	500
	82	10	10.5	2300	1400	30	0.08	HMG1J820M1010	500
	100	10	12.5	3000	1900	20	0.08	HMG1J101M1013	400
	150	10	16.5	3500	2400	15	0.08	HMG1J151M1016	250

① Rated ripple current (100kHz / +125℃ or +135℃) ② ESR (100kHz / +20℃) ③ tan δ (120Hz / +20℃)

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

Part Number System:

Hybrid E-cap	HMG series	25V	220μF	±20 %	8φx10L	
H	**MG**	**1E**	**221**	**M**	**0810**	
Category	Series name	Rated voltage	Capacitance	Tolerance	Case Size	Supplement

④ Note: For more details, please refer to "Part Number System - Conductive Polymer Hybrid Capacitors"

HMY Series

Features

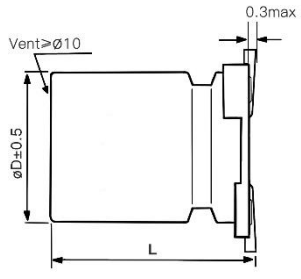
- φ8 ~ φ10, 145℃, 2000 hours assured
- Low ESR and high ripple current
- Designed for reflow soldering
- Vibration resistant structure
- RoHS compliant, REACH & SVHC compliant
- AEC-Q200 compliant, Please contact Jarson for more details, test data, information

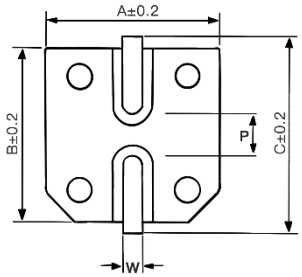


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Specifications					
Category temp. range	−55℃ to +145℃				
Capacitance tolerance	±20% (120 Hz / +20 ℃)				
Leakage current	I ≦ 0.01 CV or 3 μA whichever is greater (after 2 minutes)				
Tan δ	Please see the attached characteristics list				
Characteristics at low temperature	Z (-25 ℃) / Z (+20 ℃)≤2.0	Max. Impedance ratio at 100 kHz			
	Z (-55 ℃) / Z (+20 ℃)≤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			
Ripple Current and Frequency Multipliers	Frequency	120≤ f < 1k	1k≤ f < 10k	10k≤ f < 100k	100k≤ f < 500k
	Multiplier	0.1	0.3	0.6	1.0

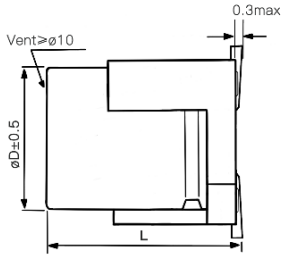
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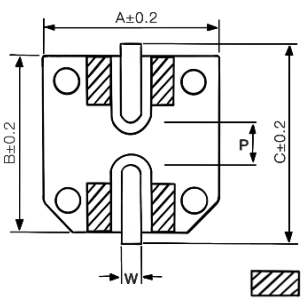




Dimensions						Unit: mm
φD	L	A	B	C	W	P±0.2
8	10±0.5	8.3	8.3	9.1	0.7~1.3	3.1
10	10.5±0.5	10.3	10.3	11.1	0.7~1.3	4.4

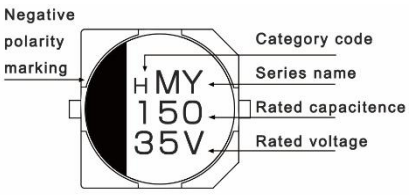
Vibration resistant structure:





: Aid electrode

Marking:



All product specifications in the catalog are subject to change without notice. Ask factory for the current technical specifications before purchase. (CAT.2026C1)

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 / +135℃ or +145℃)　② ESR (100kHz / +20℃)　③ tan δ (120Hz / +20℃)

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

Part Number System:

Hybrid E-cap	HMY series	25V	220μF	±20 %	8φx10L	
H	**MY**	**1E**	**221**	**M**	**0810**	
Category	Series name	Rated voltage	Capacitance	Tolerance	Case Size	Supplement

④ Note: For more details, please refer to "Part Number System - Conductive Polymer Hybrid Capacitors"

HMW Series

Features

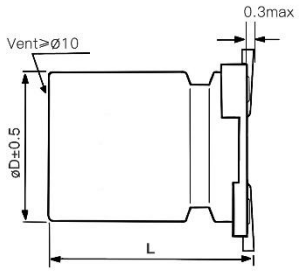
- φ8 ~ φ10, 150℃, 1000 hours assured
- Low ESR and high ripple current
- Designed for reflow soldering
- Vibration resistant structure
- RoHS compliant, REACH & SVHC compliant
- AEC-Q200 compliant, Please contact Jarson for more details, test data, information

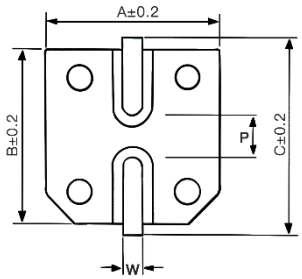


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Specifications					
Category temp. range	−55℃ to +150℃				
Capacitance tolerance	±20% (120 Hz / +20 ℃)				
Leakage current	I ≦ 0.01 CV or 3 μA whichever is greater (after 2 minutes)				
Tan δ	Please see the attached characteristics list				
Characteristics at low temperature	Z(-25 ℃) / Z(+20 ℃)≤2.0	Max. Impedance ratio at 100 kHz			
	Z(-55 ℃) / Z(+20 ℃)≤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			
Ripple Current and Frequency Multipliers	Frequency	120≤ f < 1k	1k≤ f < 10k	10k≤ f < 100k	100k≤ f < 500k
	Multiplier	0.1	0.3	0.6	1.0

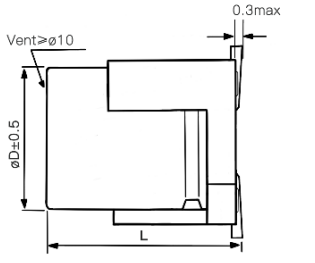
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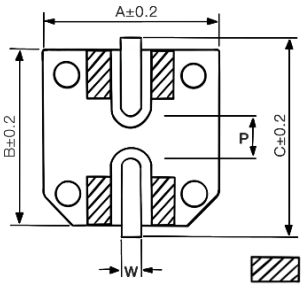




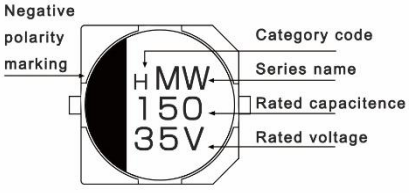
Dimensions						Unit: mm
φD	L	A	B	C	W	P±0.2
8	10±0.5	8.3	8.3	9.1	0.7~1.3	3.1
10	10.5±0.5	10.3	10.3	11.1	0.7~1.3	4.4

Vibration resistant structure:





Marking:



All product specifications in the catalog are subject to change without notice. Ask factory for the current technical specifications before purchase. (CAT.2026C1)

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)
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℃)

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

Part Number System:

Hybrid E-cap	HMW series	25V	150μF	±20 %	8φx10L	
H	**MW**	**1E**	**151**	**M**	**0810**	
Category	Series name	Rated voltage	Capacitance	Tolerance	Case Size	Supplement

④ Note: For more details, please refer to "Part Number System - Conductive Polymer Hybrid Capacitors"

HPV Series

Features

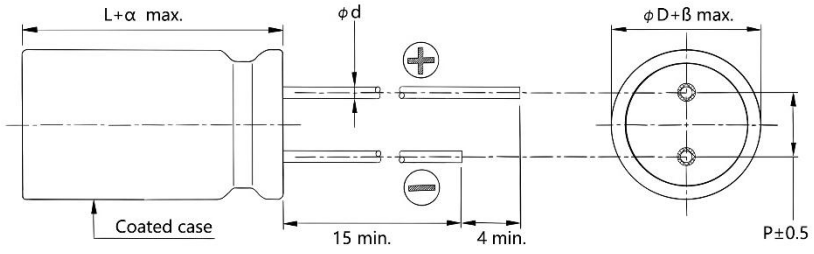
- φ8 ~ φ10, 105℃, 10000 hours assured
- Low ESR and high ripple current
- RoHS compliant, REACH & SVHC compliant



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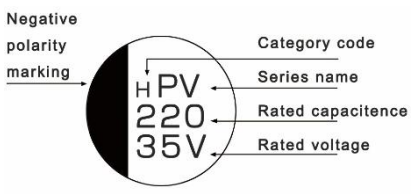
Specifications					
Category temp. range	−55℃ to +105℃				
Capacitance tolerance	±20% (120 Hz / +20 ℃)				
Leakage current	I ≦ 0.01 CV or 3 μA whichever is greater (after 2 minutes)				
Tan δ	Please see the attached characteristics list				
Characteristics at low temperature	Z (-25 ℃) / Z (+20 ℃)≤2.0	Max. Impedance ratio at 100 kHz			
	Z (-55 ℃) / Z (+20 ℃)≤2.5				
Endurance	After applying rated working voltage and rated ripple current for 10000 hours at +105 ℃ ± 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 +105 ℃ ± 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			
Ripple Current and Frequency Multipliers	Frequency	120≤ f < 1k	1k≤ f < 10k	10k≤ f < 100k	100k≤ f < 500k
	Multiplier	0.1	0.3	0.6	1.0

Dimensions:



Dimensions			Unit: mm
φD	8	10	10
L	9	10	12
P	3.5	5.0	5.0
φd	0.6		
α	1.0	1.5	
β	0.5		

Marking:



All product specifications in the catalog are subject to change without notice. Ask factory for the current technical specifications before purchase. (CAT.2026C1)

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification			Part Number④
		øD (mm)	L (mm)	Rated ripple current① (mA rms)	ESR② (mΩ)	tan δ③	
16	270	8	9	2300	27	0.16	HPV1C271M0809□□
	330	8	9	2300	27	0.16	HPV1C331M0809□□
	470	10	10	2500	20	0.16	HPV1C471M1010□□
	560	10	12	2500	20	0.16	HPV1C561M1012□□
25	150	8	9	2300	27	0.14	HPV1E151M0809□□
	220	8	9	2300	27	0.14	HPV1E221M0809□□
	330	10	10	2500	20	0.14	HPV1E331M1010□□
	470	10	12	2900	16	0.14	HPV1E471M1012□□
35	100	8	9	2300	27	0.12	HPV1V101M0809□□
	150	8	9	2300	27	0.12	HPV1V151M0809□□
	220	10	10	2500	20	0.12	HPV1V221M1010□□
	270	10	10	2500	20	0.12	HPV1V271M1010□□
	330	10	12	2900	16	0.12	HPV1V331M1012□□
50	33	8	9	1800	30	0.10	HPV1H330M0809□□
	47	8	9	1800	30	0.10	HPV1H470M0809□□
	68	8	9	1800	30	0.10	HPV1H680M0809□□
	100	10	10	2000	28	0.10	HPV1H101M1010□□
	120	10	12	2300	25	0.10	HPV1H121M1012□□
63	22	8	9	1700	40	0.08	HPV1J220M0809□□
	33	8	9	1700	40	0.08	HPV1J330M0809□□
	47	8	9	1700	40	0.08	HPV1J470M0809□□
	56	10	10	1800	30	0.08	HPV1J560M1010□□
	68	10	10	1800	30	0.08	HPV1J680M1010□□
	82	10	10	1800	30	0.08	HPV1J820M1010□□
	100	10	12	2000	27	0.08	HPV1J101M1012□□
80	22	8	9	1550	45	0.08	HPV1K220M0809□□
	33	10	10	1700	36	0.08	HPV1K330M1010□□
	47	10	10	1700	36	0.08	HPV1K470M1010□□

① Rated ripple current (100kHz / +105℃)　② ESR (100kHz / +20℃)　③ tan δ (120Hz / +20℃)

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

Part Number System:

Hybrid E-cap	HPV series	25V	330μF	±20 %	10φx10L		
H	**PV**	**1E**	**331**	**M**	**1010**	□□	
Category	Series name	Rated voltage	Capacitance	Tolerance	Case Size	Package	Supplement

④ Note: For more details, please refer to "Part Number System - Conductive Polymer Hybrid Capacitors"

HPR Series

Features

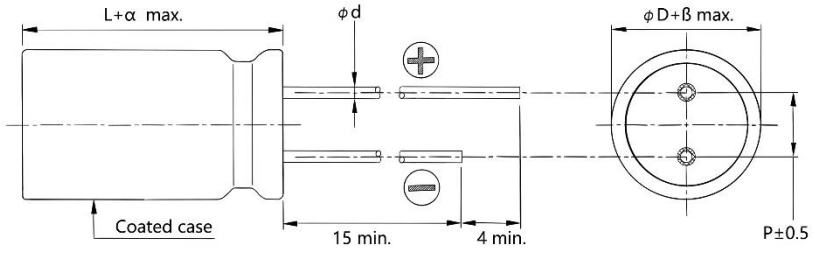
- φ8 ~ φ10, 125℃, 4000 hours assured
- Low ESR and high ripple current
- RoHS compliant, REACH & SVHC compliant



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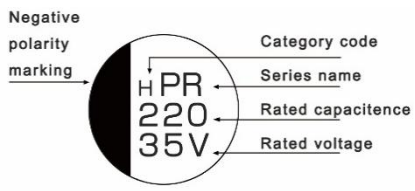
Specifications					
Category temp. range	−55℃ to +125℃				
Capacitance tolerance	±20% (120 Hz / +20 ℃)				
Leakage current	I ≦ 0.01 CV or 3 μA whichever is greater (after 2 minutes)				
Tan δ	Please see the attached characteristics list				
Characteristics at low temperature	Z (-25 ℃) / Z (+20 ℃)≤2.0	Max. Impedance ratio at 100 kHz			
	Z (-55 ℃) / Z (+20 ℃)≤2.5				
Endurance	After applying rated working voltage and rated ripple current for 4000 hours at +125 ℃ ± 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 +125 ℃ ± 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			
Ripple Current and Frequency Multipliers	Frequency	120≤ f < 1k	1k≤ f < 10k	10k≤ f < 100k	100k≤ f < 500k
	Multiplier	0.1	0.3	0.6	1.0

Dimensions:



Dimensions			Unit: mm
φD	8	10	10
L	9	10	12
P	3.5	5.0	5.0
φd	0.6		
α	1.0	1.5	
β	0.5		

Marking:



All product specifications in the catalog are subject to change without notice. Ask factory for the current technical specifications before purchase. (CAT.2026C1)

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification			Part Number④
		øD (mm)	L (mm)	Rated ripple current① (mA rms)	ESR② (mΩ)	tan δ③	
16	270	8	9	1600	27	0.16	HPR1C271M0809□□
	470	10	10	2000	20	0.16	HPR1C471M1010□□
25	220	8	9	1600	27	0.14	HPR1E221M0809□□
	330	8	9	1600	27	0.14	HPR1E331M0809□□
		10	10	2000	20	0.14	HPR1E331M1010□□
	470	10	10	2000	20	0.14	HPR1E471M1010□□
	680	10	12	2800	15	0.14	HPR1E681M1012□□
35	100	8	9	1600	27	0.12	HPR1V101M0809□□
	150	8	9	1600	27	0.12	HPR1V151M0809□□
	220	10	10	2000	20	0.12	HPR1V221M1010□□
	330	10	10	2000	20	0.12	HPR1V331M1010□□
	470	10	12	2800	16	0.12	HPR1V471M1012□□
50	47	8	9	1250	30	0.10	HPR1H470M0809□□
	68	8	9	1250	30	0.10	HPR1H680M0809□□
	100	10	10	1600	28	0.10	HPR1H101M1010□□
	150	10	10	1600	28	0.10	HPR1H151M1010□□
	220	10	12	1800	23	0.10	HPR1H221M1012□□
63	33	8	9	1100	40	0.08	HPR1J330M0809□□
	47	8	9	1100	40	0.08	HPR1J470M0809□□
	68	10	10	1400	30	0.08	HPR1J680M1010□□
	100	10	10	1400	30	0.08	HPR1J101M1010□□
	120	10	12	1600	26	0.08	HPR1J121M1012□□
80	22	8	9	1050	45	0.08	HPR1K220M0809□□
	33	10	10	1350	36	0.08	HPR1K330M1010□□
	47	10	10	1350	36	0.08	HPR1K470M1010□□
	56	10	12	1550	32	0.08	HPR1K560M1012□□

① Rated ripple current (100kHz / +125℃) ② ESR (100kHz / +20℃) ③ tan δ (120Hz / +20℃)

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

Part Number System:

Hybrid E-cap	HPV series	25V	330μF	±20 %	10φx10L		
H	**PV**	**1E**	**331**	**M**	**1010**	□□	
Category	Series name	Rated voltage	Capacitance	Tolerance	Case Size	Package	Supplement

④ Note: For more details, please refer to "Part Number System - Conductive Polymer Hybrid Capacitors"

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The products in the catalog are standard designs.
Customized specifications may be available upon request.
Please contact with us.

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