

### **HBW Series**

#### Features

- 125°C, 4,000 hours assured
- · Low ESR and High ripple current
- · RoHS Compliance

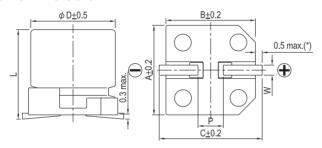


Marking color: Dark Green

#### Specifications

Items	Performance								
Category Temperature Range	-55°C ~ +125°C								
Capacitance Tolerance		±20% (at 120Hz, 20%							
Leakage Current (at 20°C)	'''	whichever is greater (after 2 minutes) pacitance in μF, V = rated DC working voltage in V							
Tanδ (at 120Hz, 20°C)	See Standard Rating	ıs							
Endurance	* The above specific	Le ations sha		e Within ±30% of initial value Less than 200% of specified value Less than 200% of specified value Within specified value when the capacitors are restored to 20°C after the rated volti		age applied with rated			
Shelf Life Test	* After storage for 1,0	000 hours		•	then being stabilized a	t 20°C,ca	pacitors shall meet the		
Resistance to Soldering Heat (Please refer to page 25 for reflowsoldering conditions)			Tanō ESR akage Current	Within :	0% of initial value specified value specified value specified value				
Ripple Current and Frequency Multipliers	Frequen Multi	, , ,	120 ≤ f < 1k 0.10	1k ≤ f < 10k 0.3	10k ≤ f < 100k 0.6	100k	≤ f < 500k 1.0		

#### Diagram of Dimensions

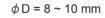


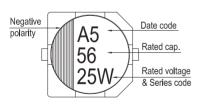
Lead Sp	pacing and Dia	ameter			l	Jnit: mm
$\phi$ D	L	Α	В	С	W	P ± 0.2
6.3	$5.8 \pm 0.3$	6.6	6.6	7.2	0.5 ~ 0.8	2.0
6.3	$7.7 \pm 0.3$	6.6	6.6	7.2	0.5 ~ 0.8	2.0
8	10.0 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1
8	12.0 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1
10	10.0 ± 0.5	10.3	10.3	11.0	0.7 ~ 1.3	4.7
10	12.5 ± 0.5	10.3	10.3	11.0	0.7 ~ 1.3	4.7

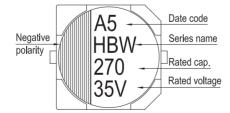
(\*): For  $6.3 \phi$  is 0.4 max.

#### Marking









# Lelon

# Conductive Polymer Hybrid Capacitors

Dimension:  $\phi D \times L(mm)$ 

Ripple Current: mA/rms at 100k Hz, 125°C

#### Standard Ratings

Rated Volt.	Surge Voltage	Capacitance	Size	Tanδ	LC	ESR	Rated R. C.
(V)	(V)	(µF)	$\phi$ D×L(mm)	(120Hz, 20°C)	(μA)	(mΩ/at 100kHz, 20°C max.)	(mA/rms at 100k Hz, 125°C)
16V (1C)	18.4	82	6.3 × 5.8	0.16	13.1	50	900
		150	$6.3 \times 7.7$	0.16	24	30	1,400
		270	8 × 10	0.16	43.2	27	1,600
		470	10 × 10	0.16	75.2	20	2,000
25V (1E)	28.8	56	6.3 × 5.8	0.14	14	50	900
		100	6.3 × 7.7	0.14	25	30	1,400
		220	8 × 10	0.14	55	27	1,600
		330	10 × 10	0.14	82.5	20	2,000
35V (1V)	40.3	27	6.3 × 5.8	0.12	9.5	60	900
		68	6.3 × 7.7	0.12	23.8	35	1,400
		150	8 × 10	0.12	52.5	27	1,600
		270	10 × 10	0.12	94.5	20	2,000
	57.5	22	6.3 × 5.8	0.10	11	80	750
50) ((411)		33	6.3 × 7.7	0.10	16.5	40	1,100
50V(1H)		68	8 × 10	0.10	34	30	1,250
		100	10 × 10	0.10	50	28	1,600
	72.5	10	6.3 × 5.8	0.08	6.3	120	700
63V(1J)		22	6.3 × 7.7	0.08	13.9	80	900
		27	8 × 12	0.08	17	40	1,100
		33	8 × 10	0.08	20.8	40	1,100
		56	10 × 10	0.08	35.3	30	1,400
		56	10 × 12.5	0.08	35.3	26	1,500

Part Numbering System

HBW Series 220 $\mu$ F ±20% 25V Carrier Tape 8  $\phi$  ×10L Pb-free and PET coating case

**HBW** 221 M <u>1E</u> <u>TR</u> 0810 Lead Wire and Capacitance Rated Package Terminal Capacitance Series Name Case size Tolerance Voltage Type Coating Type

Note: For more details, please refer to "Part Numbering System (SMD Type)" on page 15.

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MAL218697106E3 MAL218297103E3 MAL218397104E3 MAL218297604E3 MAL218697601E3 MAL218697554E3 MAL218697607E3

MAL218397702E3 MAL218297702E3 MAL218497901E3 MAL218497806E3 MAL218697001E3 MPP683J6130510LC

PCZ1V181MCL1GS PCZ1V221MCL1GS PCZ1E331MCL1GS 40HVH120M GYA1C151MCQ1GS GYA1C271MCQ1GS

GYA1C471MCQ1GS GYA1C820MCQ1GS BC6R3M471LC6.3\*8L-1A4T 8221LEM0809H2RR000 ULR277M1CF1ARR

8221LFM1013H2RR000 160ARUP471M06A1E10T 6R3AREP271M05X7E15P26 250ARHA102M10A6T SPZ1VM221F11000RAXXX SPZ1EM471E14O00RAXXX SPZ1JM470E09O00RAXXX SPZ1HM331G15O00RAXXX SPZ1AM122G12O00RAXXX

SPZ1AM152G12O00RAXXX SPZ1VM681G16O00RAXXX SPZ1HM220E07O00RAXXX