Lelon

HBV Series

Features

- 105°C, 10,000 hours assured
- Low ESR and High ripple current
- · RoHS compliance

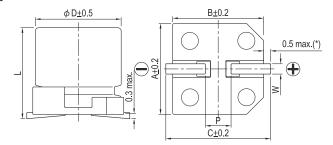


Marking color: Dark Green

Specifications

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Items	Performance							
Category Temperature Range	-55°C ~ +105°C							
Capacitance Tolerance			±20% (at 120 Hz, 20					
Leakage Current (at 20°C)		= 0.01CV or 3 (μA) whichever is greater (after 2 minutes) /here, C = rated capacitance in μF, V = rated DC working voltage in V						
Tanδ (at 120 Hz, 20°C)	See Standard Ra	tings						
Endurance	* The above speripple current for	Le		Change Within ±30% of initial value Less than 200% of specified value Less than 200% of specified value Within specified value tisfied when the capacitors are restored to 20°C after the rated voltage				
Shelf Life Test	* After storage for 1,000 hours at 105 ± 2°C with no voltage applied and then being stabilized at 20°C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)							
Resistance to Soldering Heat (Please refer to page 26 for reflowsoldering conditions)			Capacitance Change Within ±10% of initial value Tanδ Within specified value ESR Within specified value Leakage Current Within specified value					
Ripple Current and Frequency Multipliers		uency (Hz) lultiplier	120 ≤ f < 1k 0.1	1k ≤ f < 10k 0.3	10k ≤ f < 100k 0.6	100k ≤ f < 500k 1.0		

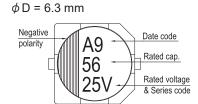
Diagram of Dimensions

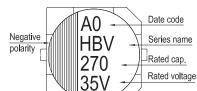


ead Sp	acing and Dia	ameter			L	Jnit: mm
ϕ D	L	Α	В	С	W	P ± 0.2
6.3	5.8 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0
6.3	7.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0
8	10.0 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1
10	10.0 ± 0.5	10.3	10.3	11.0	0.7 ~ 1.3	4.7
10	12.5 ± 0.5	10.3	10.3	11.0	0.7 ~ 1.3	4.7
	φD 6.3 6.3 8	$ \begin{array}{c cccc} \phi D & L \\ \hline 6.3 & 5.8 \pm 0.3 \\ \hline 6.3 & 7.7 \pm 0.3 \\ \hline 8 & 10.0 \pm 0.5 \\ \hline 10 & 10.0 \pm 0.5 \\ \end{array} $	6.3 5.8 ± 0.3 6.6 6.3 7.7 ± 0.3 6.6 8 10.0 ± 0.5 8.3 10 10.0 ± 0.5 10.3	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	φD L A B C 6.3 5.8 ± 0.3 6.6 6.6 7.2 6.3 7.7 ± 0.3 6.6 6.6 7.2 8 10.0 ± 0.5 8.3 8.3 9.0 10 10.0 ± 0.5 10.3 10.3 11.0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

(*): For 6.3ϕ is 0.4 max.

Marking





 ϕ D = 8 ~ 10 mm



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

Ripple Current: mA/rms at 100k Hz, 105°C Standard Ratings

Stanuaru K	auriys					Mpple Guiteit.	IIIAVIIIIS at 100k Hz, 105 C		
Rated Volt. (V)	Surge Voltage (V)	Capacitance (µF)	Size ϕ D×L(mm)	Tanδ (120 Hz, 20°C)	L C (µA)	E S R (mΩ/at 100kHz, 20°C max.)	Rated R. C. (mA/rms at 100k Hz, 105°C)		
16V (1C) 18.4	82	6.3 × 5.8		13.1	50	1,300			
	150	6.3 × 7.7	0.16	24	30	2,000			
	270	8 × 10	0.16	43.2	27	2,300			
		470	10 × 10		75.2	20	2,500		
25V (1E) 28.8		47	6.3 × 5.8	0.14	11.8	50	1,300		
		56	6.3 × 5.8		14	50	1,300		
		68	6.3 × 7.7		17	30	2,000		
	20.0	100	6.3 × 7.7		25	30	2,000		
	28.8	150	8 × 10		37.5	27	2,300		
		220	8 × 10		55	27	2,300		
		200	10 × 10		82.5	20	2,500		
		330	10 × 12.5		82.5	16	2,900		
				27			9.5		
		33	6.3 × 5.8		11.6	60	1,300		
35V (1V) 40.3		47			16.5				
	40.2	68	6.3 × 7.7	0.12	23.8	35	2,000		
	40.3	100	8 × 10		35	27	2,300		
		150	8 × 10		52.5	27	2,300		
		220	10 × 10		77	20	2,500		
		270	10 × 10		94.5	20	2,500		
		22	6.3 × 5.8	0.10	11	80	1,100		
		33	6.3 × 7.7		16.5	40	1,600		
50V(1H) 5	57.5	47	8 × 10		23.5	30	1,800		
		68	8 × 10		34	30	1,800		
		100	10 × 10		50	28	2,000		
		10	6.3 × 5.8	0.00	6.3	120	1,000		
63V(1J)		22	6.3 × 7.7		13.9	80	1,500		
		27			17		1,700		
	72.5	33	8 × 10		20.8	40			
		47		0.08	29.6				
		56		_	35.3		1,800		
		68	10 × 10		42.8	30			
		82			51.7				
	92.0	22	8 × 10		17.6	45	1,550		
80V(1K)		33	10 × 10	0.08	26.4	36	1,700		
		47	10 × 10		37.6	36	1,700		

Part Numbering System

Carrier Pb-free and PET **HBV** Series 220µF 25V ±20% $8\phi \times 10L$ Tape coating case 1E Rated <u>221</u> **HBV** M TR 0810

Package Lead Wire and Capacitance Terminal Capacitance Voltage Tolerance Туре Type Coating Type

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