

HBV Series

Features

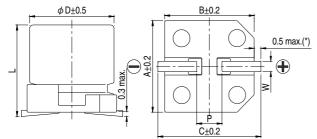
- 105°C, 10,000 hours assured
- · Low ESR and High ripple current
- RoHS compliance



Marking color: Dark Green

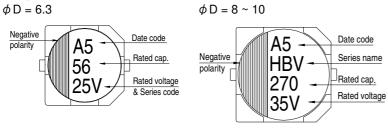
Items	Performance									
Category Temperature Range	-55°C ~ +105°C									
Capacitance Tolerance		(at 120 Hz, 20°C)								
Leakage Current (at 20°C)	I = 0.01CV or 3 (μ A) whichever is greater (after 2 minutes) Where, C = rated capacitance in μ F, V = rated DC working voltage in V									
Tanδ (at 120 Hz, 20°C)	See Standard Ratings	See Standard Ratings								
		Test Time 10,000 Hrs Capacitance Change Within ±30% of initial value								
		Tanδ	Less than 200% of specified value							
Endurance		ESR	Less than 200							
		Leakage Current	Within s							
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 10,000 hours at 105°C.									
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)									
			Within +10							
B		Capacitance Change	VVILIIII ±10							
Resistance to Soldering Heat		Capacitance Change Tanδ		pecified value						
Resistance to Soldering Heat (Please refer to page 26 for reflowsoldering conditions)		Tanō ESR	Within s	pecified value pecified value						
(Please refer to page 26 for		Tanō	Within s Within s							
(Please refer to page 26 for		Tanō ESR	Within s Within s Within s	pecified value						
(Please refer to page 26 for	Frequenc	Tanō ESR Leakage Current	Within s Within s	pecified value	 100k ≤ f<500k					

Diagram of Dimensions



Lead Sp	pacing and Dia	ι	Jnit: mm				
φD	L	А	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	
(*): For 6.3ϕ is 0.4 max.							

Marking





Rated Volt.	Surge Voltage	Capacitance	Size	Tanō	LC	ESR	mA/rms at 100k Hz, 105 Rated R. C.	
(V)	(V)	(µF)	$\phi D \times L(mm)$	(120 Hz, 20°C)	(µA)	(mΩ/at 100kHz, 20°C max.)	(mA/rms at 100k Hz, 105°C)	
16V (1C) 18		82	6.3 × 5.8	0.16	13.1	50	1,300	
	18.4	150	6.3 × 7.7		24	30	2,000	
		270	8 × 10		43.2	27	2,300	
		470	10 × 10		75.2	20	2,500	
	-	47	6.3 × 5.8	-	11.8	50	1,300	
		56	6.3 × 5.8		14	50	1,300	
		68	6.3 × 7.7		17	30	2,000	
25V (1E)	28.8	100	6.3 × 7.7	0.14	25	30	2,000	
()		150	8 × 10	-	37.5	27	2,300	
		220	8 × 10	-	55	27	2,300	
		330	10 × 10		82.5	20	2,500	
			10 × 12.5		82.5	16	2,900	
		27	-	0.12	9.5			
		33	6.3 × 5.8		11.6	60	1,300	
		47			16.5			
35V (1V)	40.3	68	6.3 × 7.7		23.8	35	2,000	
001 (11)	10.0	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		11	80	1,100	
		33	6.3 × 7.7		16.5	40	1,600	
50V(1H)	57.5	47	8 × 10	0.10	23.5	30	1,800	
		68	8 × 10		34	30	1,800	
		100	10 × 10		50	28	2,000	
	72.5	10	6.3 × 5.8	0.08	6.3	120	1,000	
		22	6.3 × 7.7		13.9	80	1,500	
		27			17		1,700	
63V(1J)		33	8 × 10		20.8	40		
		47			29.6			
		56			35.3		1,800	
		68	10 × 10		42.8	30		
		82			51.7			
	92.0	22	8 × 10	0.08	17.6	45	1,550	
80V(1K)		33	10 × 10		26.4	36	1,700	
		47	10 × 10	1	37.6	36	1,700	

HBV Series	220µF	±20%	25V	Carrier Tape		8¢×10L	Pb-free and PET coating case
<u>HBV</u>	<u>221</u>	M	<u>1E</u>	<u>TR</u>	-	<u>0810</u>	
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Package Type	Terminal Type	Case size	Lead Wire and Coating Type

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

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