

Conductive Polymer Hybrid Capacitors

HBO

HBO Series

Features

- 125°C, 4,000 hours assured
- · Low ESR and High ripple current
- · RoHS compliant
- · AEC-Q200 compliant

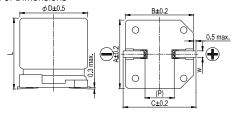


Marking color: Dark Green

Items

Specifications										
Items	Performance									
Category Temperature Range	-55°C ∼ +125°C									
Capacitance Tolerance	± 20%							(at 12	0 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									
	Impedance ratio shall not exceed the values given in the table below									
Low Temperature			Ra		oltage	25	35			
Characteristics (at 100k Hz)		Impedance Z			·25°C) / Z (+20°C)	1.5	1.5			
		ratio Z			·55°C) / Z (+20°C)	2.0	2.0			
Endurance Shelf Life Test	ripple current for 4,0 * After storage for 1,0	Tanō Less				Itage applied and then being stabilized at 20°C, ca				
Resistance to Soldering Heat (Please refer to page 15 for reflowsoldering conditions)		Capacitance Change Tanδ ESR Leakage Current			Within : With With With					
Ripple Current and Frequency Multipliers	Frequenc Multip	, , ,	120 ≦ f < 0.1	1k	1k ≤ f < 10k 0.3	10k i	≤ f < 100k 0.6	100k	≦ f < 500k 1.0]

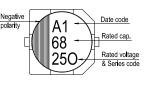
Diagram of Dimensions

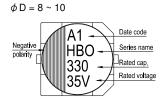


Lead Spacing and Diameter Unit: n								
ϕ D	L	Α	В	С	W	Р		
6.3	5.8 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0		
6.3	7.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0		
8	10.0 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1		
10	10.0 ± 0.5	10.3	10.3	11.0	0.7 ~ 1.3	4.7		
The diagram is marking " () " for reference dimension								

Marking







All product specifications in the catalog are subject to change without notice. (Cat. 2025E3)



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

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

Rated Voltage (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, 125°C)	
25V (1E)	28.8	68	6.3 × 5.8		17.0	50	1,300	
		82	6.3 × 5.8	0.14	20.5	50	1,300	
		150	6.3 × 7.7		37.5	30	1,800	
		270	8 × 10		67.5	27	2,000	
		470	10 × 10		117	20	2,800	
35V (1V)	40.3	56	6.3 × 5.8	0.12	19.6	60	1,200	
		100	6.3 × 7.7		35.0	35	1,700	
		180	8 × 10		63.0	27	2,000	
		330	10 × 10		115	20	2,800	

Part Numbering System

Carrier Regional Tracking **HBO** Series 270µF ± 20% 25V $8\phi \times 10L$ Tape Purpose **HBO** <u>TR</u> <u>0810</u> M <u>s</u> Rated Package Case Size Series Name Capacitance Tolerance Type

Note: For more details, please refer to "Part Numbering System" on page 87.