

HBO Series

Features

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

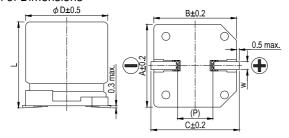


Marking color: Dark Green

Specifications

opeomeations .									
Items			Performance	9					
Category Temperature Range	-55°C ~ +125°C								
Capacitance Tolerance	± 20% (at 12								
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								
		Ra	ated Voltage	25	35				
Low Temperature Characteristics (at 100k Hz)		Impedance	Z (-25°C) / Z (+20°C)	1.5	1.5				
Characteristics (at 100k Hz)		ratio	Z (-55°C) / Z (+20°C)	2.0	2.0				
Endurance Shelf Life Test	ripple current for 4,0 * After storage for 1,00	Test Time Capacitance Change Within ± 30% of initial value Tanō Less than 200% of specified value ESR Less than 200% of specified value Leakage Current Within specified value tions shall be satisfied when the capacitors are restored to 20°C after the rated volt 200 hours at 125°C. 00 hours at 125°C with no voltage applied and then being stabilized at 20°C, condurance. (With voltage treatment)				<u> </u>			
Resistance to Soldering Heat (Please refer to page 15 for reflowsoldering conditions)		Capacitance Change Within ± 10% of initial value Tanō Within specified value ESR Within specified value Leakage Current Within specified value			ue ue				
Ripple Current and Frequency Multipliers	Frequenc Multipl	, , ,	$ \begin{array}{c c} 1k & 1k \le f < 10k \\ \hline 0.3 \end{array} $		f < 100k	100k ≤ f < 500k 1.0			

Diagram of Dimensions

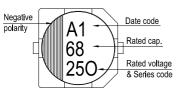


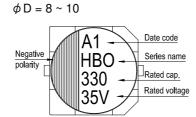
Lead Spacing and Diameter							
ϕ D	L	Α	В	С	W	Р	
6.3	5.8 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0	
6.3	7.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0	
8	10.0 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1	
10	10.0 ± 0.5	10.3	10.3	11.0	0.7 ~ 1.3	4.7	

The diagram is marking " () " for reference dimension.

Marking









Standard Ratings

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

Application

Case Size

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	0.14	17.0	50	1,300
		82	6.3 × 5.8		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		19.6	60	1,200
		100			35.0	35	1,700
		180	8 × 10	0.12	63.0	27	2,000
		330	10 × 10		115	20	2,800

Type

Part Numbering System

Series Name

Carrier General 25V **HBO** Series 270µF ± 20% 8 *φ* ×10L Tape Purpose **HBO 271** M <u>1E</u> <u>TR</u> <u>0810</u> Capacitance Tolerance Terminal

Package

Type

Rated

Voltage

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

Capacitance