Lelon

HBO Series

Features

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

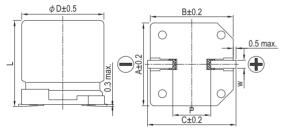


Marking color: Dark Green

Specifications

Specifications										
Items	Performance									
Category Temperature Range	-55°C ~ +125°C									
Capacitance Tolerance	±20% (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 μF, 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		Rated			Voltage	35				
	Impedano			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 4,000 hours at 125°C.				4,000 Hrs Within ±30% of initial value Less than 200% of specified value Less than 200% of specified value Within specified value the capacitors are restored to 20°C after the rated voltance no voltage applied and then being stabilized at 20°C, calculated to the capacitors are restored to 20°C after the rated voltance of the capacitors.				0 11	
Resistance to Soldering Heat (Please refer to page 15 for reflowsoldering conditions)	Capacitance Ch Tanō ESR Leakage Curr			е	Within : Withi Withi Withi					
Ripple Current and Frequency Multipliers	Frequency (Hz Multiplier		120 ≦ f < 1k 0.1		1k ≤ f < 10k 0.3	10k ≤ f < 100k 100k 0.6		100k :	≦ f < 500k 1.0]

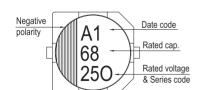
Diagram of Dimensions

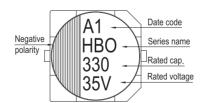


Lead Sp	pacing and Dia	ameter			l	Jnit: mm
ϕ D	L	Α	В	С	W	P ± 0.2
6.3	5.8 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0
6.3	7.7 ± 0.3	6.6	6.6	7.2	0.5 ~ 0.8	2.0
8	10.0 ± 0.5	8.3	8.3	9.0	0.7 ~ 1.1	3.1
10	10.0 ± 0.5	10.3	10.3	11.0	0.7 ~ 1.3	4.7

Marking

 $\phi \, D = 6.3$





 $\phi D = 8 \sim 10$

Lelon

Standard Ratings

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

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

	<u> </u>							
Rated Voltage	Surge Voltage	Capacitance	Size	Tanδ	LC	ESR	Rated R. C.	
(V)	(V)	(μF)	ϕ D×L(mm)	(120 Hz, 20°C)	(µA)	(mΩ/at 100kHz, 20°C max.)	(mA/rms at 100k Hz, 125°C)	
25V (1E)		68	6.3 × 5.8		17.0	50	1,300	
		82	6.3 × 5.8	0.14	20.5	50	1,300	
	28.8	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 General **HBO** Series 270µF ±20% 25V 8 *φ* ×10L Tape Purpose <u>1E</u> **HBO 271** M <u>TR</u> **0810** Capacitance Rated Package Terminal Series Name Capacitance Case Size Application Tolerance Voltage Type Type

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