

HBZ Series

Features

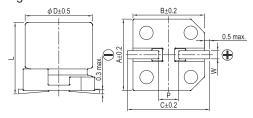
- 125°C, 4,000 hours assured
- · Low ESR and High ripple current
- · RoHS compliance

Specifications

Marking color: Dark Green

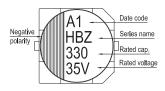
Items	Performance						
Category Temperature Range	-55°C ~ +125°C						
Capacitance Tolerance	±20% (at 120 Hz, 20						
Leakage Current (at 20°C)	I = 0.01CV or 3 (μ A) whichever is greater (after 2 minutes) Where, C = rated capacitance in μ F, V = rated DC working voltage in V						
Tanδ (at 120 Hz, 20°C)	See Standard Ratings						
		Test Time Capacitance Change	4, Within ±30				
Endurance		Tanδ	Less than 200				
		ESR	Less than 200				
		Leakage Current Within specified value					
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 4,000 hours at 125°C.						
			the capacitors are resto	red to 20°C after the ra	ated voltage applied with rated		
Shelf Life Test	ripple current for 4,0 * After storage for 1,00	00 hours at 125°C.	no voltage applied and t		ated voltage applied with rated t 20°C,capacitors shall meet the		
Resistance to Soldering Heat (Please refer to page 26 for	ripple current for 4,0 * After storage for 1,00	00 hours at 125°C. 00 hours at 125 \pm 2°C with r	no voltage applied and t ment) Within ±10 Within s Within s		<u> </u>		
Shelf Life Test Resistance to Soldering Heat (Please refer to page 26 for reflowsoldering conditions) Ripple Current and Frequency Multipliers	ripple current for 4,0 * After storage for 1,00	00 hours at 125°C. 00 hours at 125 ± 2°C with not adurance. (With voltage treatment of the second	no voltage applied and t ment) Within ±10 Within s Within s	hen being stabilized at % of initial value pecified value pecified value	<u> </u>		

Diagram of Dimensions



Lead	Lead Spacing and Diameter Unit: mn						
ϕD	L	Α	В	С	W	P ± 0.2	
10	12.5 ± 0.5	10.3	10.3	11.0	0.7 ~ 1.3	4.7	
10	16.5 ± 0.5	10.3	10.3	11.0	0.7 ~ 1.3	4.7	





Dimension: ϕ D×L(mm)

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

	Rated Volt.	Surge Voltage	Capacitance	Size	Tanδ	LC	ESR	Rated R. C.
ı	(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)
2	25V (1E)	28.8	470	10 × 12.5	0.14	117	14	3,500
	250 (1L)	20.0	560	10 × 16.5	0.14	140	11	4,000
	35V (1V)	40.3	330	10 × 12.5	0.12	115	14	3,500
	357 (17)	40.3	470	10 × 16.5	0.12	164	11	4,000
	50V (1H)	57.5	150	10 × 12.5	0.10	75	17	3,200
	307 (111)	37.5	220	10 × 16.5	0.10	110	13	3,700
6	63V (1J)	72.5	100	10 × 12.5	0.08	63	19	3,000
	037 (13)		150	10 × 16.5	0.08	94.5	15	3,500

Part Numbering System

HBZ Series $470\mu\text{F}$ $\pm 20\%$ 25V Carrier Tape $10\,\phi \times 12.5\text{L}$ Pb-free and PET coating case HBZ 471 M 1E TR - 1013

HBZ <u>1E</u> <u>TR</u> M Capacitance Rated Package Terminal Lead Wire and Series Name Capacitance Case size Voltage Coating Type Tolerance Type Type

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