Lelon

HUE Series

Features

- 145°C, 2,000 hours assured
- · Low ESR and High ripple current
- RoHS compliant
- · AEC-Q200 compliant

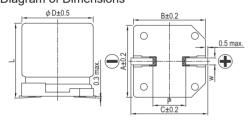


Marking color: Dark Green

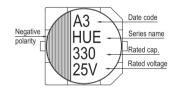
Specifications

Specifications												
Items	Performance											
Category Temperature Range	-55°C ~ +145°C											
Capacitance Tolerance	±20% (at 120 Hz, 20											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											
				Ra	Rated Voltage		25	35	50	63		
Low Temperature Characteristics (at 100k Hz)			Impedance Z (-25			C) / Z (+20°C)	1.5	1.5	1.5	1.5		
Characteristics (at 100k Hz)				ratio	Z (-55°C	C) / Z (+20°C)	2.0	2.0	2.0	2.0		
Endurance			Test Time			145°C			135°C			
						2,000 Hrs 4,000			4,000 H	Irs		
			Capacitance Change			Within ±30% of initial value						
				Tanδ		Less	than 200					
				ESR		Less	than 200					
			Le	eakage Curr	ent	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: 2,000 hours at 145°C / 4,000 hours at 135°C.											
Shelf Life Test	* After storage for 1,000 hours at 145 ± 2°C with no voltage applied and then being stabilized at 20°C, capacitors shall meet the											
	limits specified in Endurance. (With voltage treatment)											
Resistance to Soldering Heat (Please refer to page 15 for reflowsoldering conditions)			Cap	pacitance Ch	ange	V	Vithin ±10					
			Ταηδ				Within					
			ESR				Within					
			Leakage Current			Within specified value						
Ripple Current and Frequency Multipliers		Frequency	/ (Hz) 120 ≤ f < 1k			1k ≦ f <	< 10k	10k ≦	≦ f < 100k	100	0k ≤ f < 500k	
	Multipli		` '	0.1		0.3			0.6		1.0	
		· ·						1				J

Diagram of Dimensions



Lead :	ι	Unit: mm				
ϕ D	L	Α	В	С	W	P ± 0.2
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



Standard Ratings

Dimension: ϕ D×L(mm) Ripple Current: mA/rms at 100k Hz

Marking

Tuppio durini. Illy villo at 100KTI2									
Rated Voltage	Surge Voltage	Capacitance	Size	Tanδ	LC	ESR	Rated R. C. (mA	/rms at 100k Hz,)	
(V)	(V)	(µF)	ϕ D×L(mm)	(120 Hz, 20°C)	(µA)	(mΩ/at 100kHz, 20°C max.)	135°C	145°C	
25V (1E)	28.8	220	8 × 10	0.14	55.0	27	1,600	700	
		330	10 × 10	0.14	82.5	20	2,000	900	
35V (1V)	40.3	150	8 × 10	0.12	52.5	27	1,600	700	
	40.5	270	10 × 10	0.12	94.5	20	2,000	900	
50V (1H) 57.5	57.5	68	8 × 10	0.10	34.0	30	1,250	600	
	57.5	100	10 × 10	0.10	50.0	28	1,600	800	
		33	8 × 10		20.8	40	1,100	600	
63V (1J) 72	72.5	72.5 56		0.08	35.3	30	1,400	800	
		82	10 × 10		51.7	30	1,400	800	

Part Numbering System

HUE Series 220 μ F ±20% 25V Carrier Tape 8 ϕ ×10L General Purpose

 HUE
 221
 M
 1E
 TR
 0810

 Series Name
 Capacitance
 Capacitance Tolerance
 Rated Voltage
 Package Type
 Terminal Type
 Case Size
 Application

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