EH Series

Feature

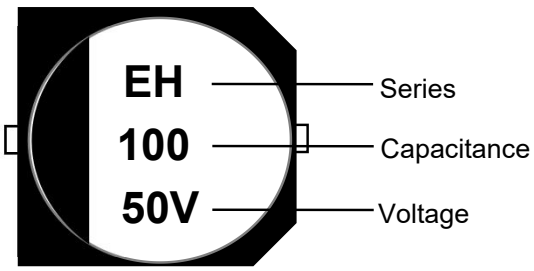
- AEC-Q200 compliant.
- Guaranteed duration: 2000 hours at 135℃.
- Suitable for SMT Process.
- High Temperature.
- RoHS compliant.

Items	Characteristics							
Temperature Range	-40℃ ~ +135℃							
Rated Voltage Range	10V ~ 63V							
Capacitance Range	33 ~ 3300 μF							
Capacitance Tolerance	±20%（20℃，120Hz）							
Leakage Current	I ≤ 0.03CV or 4μA, Take the larger of the two values (after applying the rated working voltage for 2 minutes) CR: nominal capacitance (μ F) UR: rated voltage (V).							
Dissipation Factor（tg δ）（20℃, 120Hz）	U_R(V)	10	16	25	35	50	63	
	tg δ	0.24	0.22	0.20	0.16	0.16	0.14	
Endurance	After applying the rated working voltage to the capacitor at 135℃ for 2000 hours, the capacitor shall meet all the requirements listed below after being recovered to 20℃.							
	Capacitance Change	within ±30% of the initial value						
	Dissipation Factor	≤ 300% of the initial ralted value						
	Leakage Current	≤ initial ralted value						
High temperature storage	After storing the capacitor at 135℃ without voltage application for 1000 hours, the capacitor shall meet the above endurance requirements after being recovered to 20℃.							
Low Temperature	U_R(V)	10	16	25	35	50	63	
	Z(-25℃)/Z(20℃)	4	3	2	2	2	2	
	Z(-40℃)/Z(20℃)	8	6	4	3	3	3	
Resistance to soldering heat	Place the capacitor on a hot plate at 250℃ and hold for 30 seconds. Then remove the capacitor from the hot plate and allow it to recover at room temperature. The capacitor shall meet the requirements listed on the right.				Capacitance Change		within ±10% of the initial value	
					Dissipation Factor（tg δ）		≤ initial ralted value	
					Leakage Current		≤ initial ralted value	

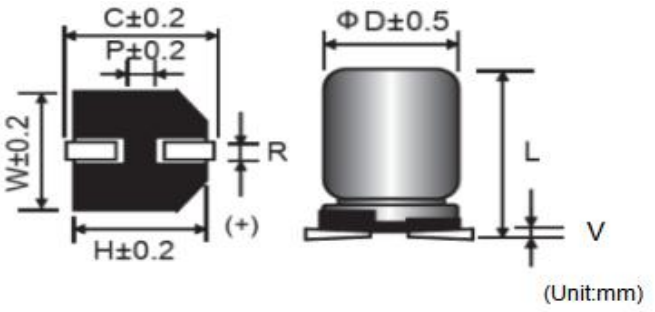
Coefficient of Frequency for Rated Ripple Current

Frequency（Hz）	100≦ F <1K	1K≦ F <10K	10K≦ F <100K	100K≦ F
1~33	0.55	0.83	0.93	1.00
>33	0.60	0.86	0.93	1.00

Mark



Appearance & Dimension



Dimensions	ΦD	L	W	H	C	R	P	Vmax
8x10	8	10.0±0.5	8.3	8.3	9.0	0.7~1.1	3.2	0.3
10x10	10	10.0±0.5	10.3	10.3	11.0	0.7~1.3	4.5	0.3
12.5x13.5	12.5	13.5±0.5	13.0	13.0	13.7	1.1~1.4	4.5	0.4
16x16.5	16	16.5±0.5	17.0	17.0	18.0	1.4~1.8	6.4	0.4
16x21.5	16	21.5±0.5	17.0	17.0	18.0	1.4~1.8	6.4	0.4
18x16.5	18	16.5±1.0	19.0	19.0	20.0	1.4~1.8	6.4	0.4
18x21.5	18	21.5±1.0	19.0	19.0	20.0	1.4~1.8	6.4	0.4

EH Characteristics Table

Rated Voltage (V.DC)	Capacitance (±20%) (μF)	Dimensions(mm)		Electrical Characteristics		Minimum Packaging Quantity (PCS)
		ΦD	L	Rated Ripple Current (100KHz/135℃) (mA r.m.s)	tan δ (120Hz/20℃)	
10	220	8	10	220	0.24	500
	330	8	10	220	0.24	500
	330	10	10	300	0.24	500
	470	10	10	300	0.24	500
	1000	12.5	13.5	750	0.24	250
	1500	12.5	13.5	750	0.24	250
	2200	16	16.5	1000	0.24	200
	2700	16	16.5	1000	0.24	200
16	100	8	10	220	0.22	500
	220	8	10	220	0.22	500
	330	10	10	300	0.22	500
	470	10	10	300	0.22	500
	680	12.5	13.5	750	0.22	250
	1500	16	16.5	1000	0.22	200
25	100	8	10	220	0.20	500
	220	10	10	300	0.20	500
	330	10	10	300	0.20	500
	470	12.5	13.5	750	0.20	250
	1000	16	16.5	1000	0.20	200
	1500	16	16.5	1000	0.20	200
	2200	18	16.5	1400	0.20	150
	2700	18	21.5	1900	0.20	100
	3300	18	21.5	2200	0.20	100
35	100	8	10	200	0.16	500
	220	10	10	300	0.16	500
	330	12.5	13.5	750	0.16	250
	680	16	16.5	1000	0.16	200
	1000	16	16.5	1000	0.16	200
	1500	16	21.5	1900	0.16	125
	2200	16	21.5	2200	0.16	125
50	47	8	10	160	0.16	500
	100	10	10	240	0.16	500
	220	12.5	13.5	550	0.16	250
	470	16	16.5	850	0.16	200
	680	18	16.5	1200	0.16	150
	1000	16	21.5	1600	0.16	125
63	33	8	10	100	0.14	500
	47	10	10	120	0.14	500
	100	10	10	270	0.14	500
	470	16	16.5	820	0.14	200