

EJ Series

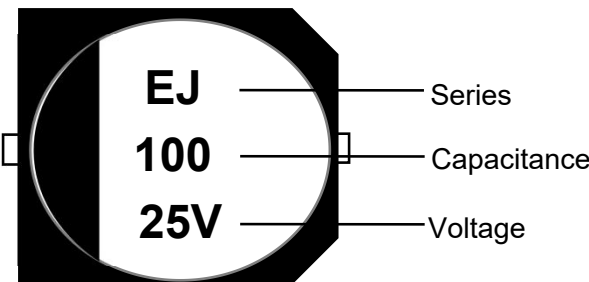
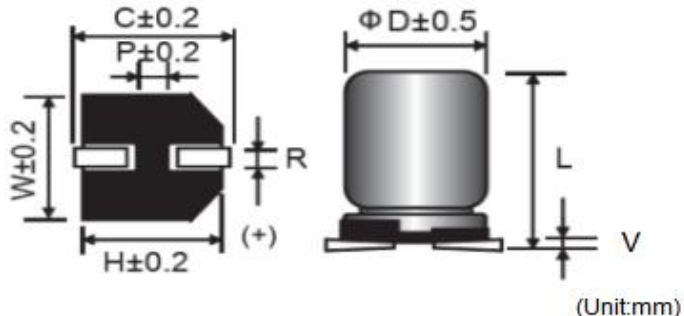
Feature

- ◆ AEC-Q200 compliant.
- ◆ Guaranteed duration: 7000~10000 hours at 105°C.
- ◆ Low impedance, long life.
- ◆ Suitable for SMT Process.
- ◆ RoHS compliant.

Items	Characteristics								
Temperature Range	-25°C ~ +105°C								
Rated Voltage Range	6.3V ~ 50V								
Capacitance Range	10 ~ 1000 μF								
Capacitance Tolerance	±20% (20°C, 120Hz)								
Leakage Current	I ≤ 0.01CV or 3μA, 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°C, 120Hz)	U _R (V)	6.3	10	16	25	35	50		
	tg δ	0.32	0.28	0.26	0.16	0.14	0.14		
Endurance	At 105°C, capacitors shall be subjected to the rated working voltage for the following durations: ΦD ≤ 6.3: 7000 hours; ΦD ≥ 8: 10000 hours. After recovery to 20°C, the capacitors shall meet the following requirements.								
	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 105°C without voltage application for 1000 hours, the capacitor shall meet the above endurance requirements after being recovered to 20°C.								
Low Temperature	U _R (V)	6.3	10	16	25	35	50		
	Z(-25°C)/Z(20°C)	4	3	2	2	2	2		
Resistance to soldering heat	Place the capacitor on a hot plate at 250°C 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
C ≤ 22	0.50	0.80	0.90	1.00
22 < C ≤ 150	0.65	0.85	0.92	1.00
150 < C	0.70	0.85	0.95	1.00

Mark	Appearance & Dimension
 <p>Series Capacitance Voltage</p>	 <p>(Unit:mm)</p>

Dimensions	ΦD	L	W	H	C	R	P	Vmax
5x7	5	7.0±0.3	5.3	5.3	5.9	0.5~0.8	1.4	0.3
6.3x7	6.3	7.0±0.3	6.6	6.6	7.2	0.5~0.8	2.1	0.3
6.3x8.4	6.3	8.4±0.3	6.6	6.6	7.2	0.5~0.8	2.1	0.3
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

EJ Characteristics Table

Rated Voltage (V.DC)	Capacitance ($\pm 20\%$) (μF)	Dimensions(mm)		Electrical Characteristics			Minimum Packaging Quantity (PCS)
		ΦD	L	Rated Ripple Current (100KHz/105°C) (mA r.m.s)	$\tan \delta$ (120Hz/20°C)	Impedance (100KHz) (20°C) (Ω)	
6.3	47	5	7	95	0.32	2.200	1000
	100	6.3	7	140	0.32	1.100	1000
	220	6.3	8.4	230	0.32	1.000	800
	330	6.3	8.4	230	0.32	1.000	800
	470	8	10	600	0.32	0.220	500
	1000	10	10	850	0.32	0.160	500
10	33	5	7	95	0.28	2.200	1000
	150	6.3	7	140	0.28	1.100	1000
16	10	5	7	95	0.26	2.200	1000
	33	6.3	7	140	0.26	1.100	1000
	47	6.3	7	140	0.26	1.100	1000
	100	6.3	8.4	230	0.26	1.000	800
	150	6.3	8.4	230	0.26	1.000	800
	220	8	10	600	0.26	0.220	500
	330	10	10	850	0.26	0.160	500
25	10	5	7	95	0.16	2.200	1000
	22	6.3	7	140	0.16	1.100	1000
	33	6.3	7	140	0.16	1.100	1000
	47	6.3	8.4	230	0.16	1.000	800
	100	8	10	600	0.16	0.220	500
	150	8	10	600	0.16	0.220	500
	220	10	10	850	0.16	0.160	500
35	10	5	7	95	0.14	2.200	1000
	22	6.3	8.4	230	0.14	1.000	800
	33	6.3	8.4	230	0.14	1.000	800
	47	8	10	600	0.14	0.220	500
	150	10	10	850	0.14	0.160	500
	220	10	10	850	0.14	0.160	500
50	10	6.3	8.4	100	0.14	1.800	800
	22	8	10	350	0.14	0.530	500
	33	8	10	350	0.14	0.530	500
	47	10	10	670	0.14	0.350	500