

EG Series

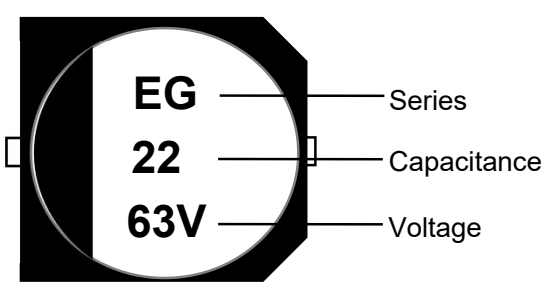
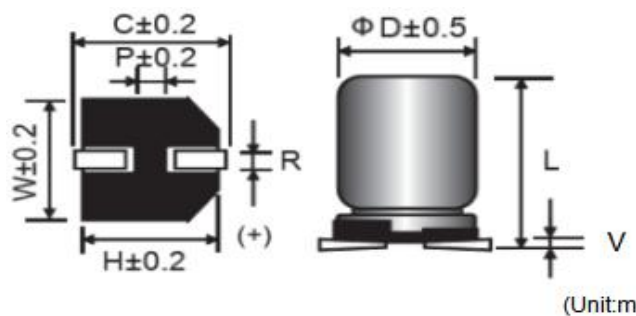
Feature

- ◆ AEC-Q200 qualified
- ◆ Guaranteed duration: 1000~3000 hours at 125°C
- ◆ SMT process
- ◆ Long life
- ◆ RoHS compliant

Items	Characteristics									
Temperature Range	-55°C ~ +125°C					-40°C ~ +125°C				
Rated Voltage Range	10V ~ 63V					80V ~ 160V				
Capacitance Range	10 ~ 470 μF					2.2 ~ 33 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)	10	16	25	35	50	63	80	100	160
	tg δ	0.32	0.24	0.21	0.18	0.18	0.15	0.15	0.12	0.20
Endurance	Under the condition of 125°C, after being subjected to the rated operating voltage for 3000 hours and subsequently returned to 20°C, the capacitors shall meet the following requirements: ΦD = 6.3x5.4 for 1000 hours; ΦD = 6.3x7.7 for 2000 hours.									
	Capacitance Change	within ±30% of the initial value								
	Dissipation Factor	≤ 300% of initial rated value								
High Temperature Storage	After being stored under no-voltage conditions at 125°C for 1000 hours and subsequently returned to 20°C, the capacitors shall meet the aforementioned endurance requirements.									
	U _R (V)	10	16	25	35	50	63	80	100	160
	Z(-25°C)/Z(20°C)	3	2	2	2	2	2	2	2	-
Low Temperature	Z(-40°C)/Z(20°C)	-	-	-	-	-	-	3	3	-
	Z(-55°C)/Z(20°C)	6	4	4	3	3	3	-	-	-
Resistance to soldering heat	The capacitor shall be maintained on a hot plate at 250°C for 30 seconds. After removal and recovery at room temperature, it shall meet the requirements listed on the right.					Capacitance Change		within ±10% of the initial value		
						Dissipation Factor (tg δ)		≤ initial rated value		
						Leakage Current		≤ initial rated value		

Coefficient of Frequency for Rated Ripple Current

Frequency (Hz) (Hz)	50	60	120	1K	≥ 10K
Coefficient	0.64	0.64	1.00	1.36	1.50

Mark	Appearance & Dimension
 <p>EG — Series 22 — Capacitance 63V — Voltage</p>	 <p>(Unit:mm)</p>

Dimension	ΦD	L	W	H	C	R	P	Vmax
6.3x5.4	6.3	5.4±0.3	6.6	6.6	7.2	0.5~0.8	2.1	0.3
6.3x7.7	6.3	7.7±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

EG Characteristics Table

Rated Voltage (V.DC)	Capacitance (±20%) (μF)	Dimension (mm)		Electrical Characteristics		Minimum Packaging Quantity (PCS)
		ΦD	L	Rated Ripple Current (120Hz/125°C) (mA r.m.s)	tan δ (120Hz/20°C)	
10	100	6.3	7.7	58	0.32	1000
	220	6.3	7.7	58	0.32	1000
	330	8	10	90	0.32	500
	330	10	10	112	0.32	500
	470	10	10	130	0.32	500
16	47	6.3	5.4	40	0.24	1000
	100	6.3	7.7	73	0.24	1000
	220	8	10	131	0.24	500
	220	10	10	164	0.24	500
	330	10	10	164	0.24	500
25	33	6.3	5.4	46	0.21	1000
	47	6.3	7.7	73	0.21	1000
	100	6.3	7.7	73	0.21	1000
	100	8	10	131	0.21	500
	220	8	10	131	0.21	500
	220	10	10	164	0.21	500
	330	10	10	164	0.21	500
35	10	6.3	5.4	46	0.18	1000
	22	6.3	5.4	46	0.18	1000
	33	6.3	7.7	73	0.18	1000
	47	6.3	7.7	73	0.18	1000
	100	8	10	131	0.18	500
	100	10	10	164	0.18	500
	220	10	10	164	0.18	500
50	10	6.3	7.7	34	0.18	1000
	22	6.3	7.7	55	0.18	1000
	33	8	10	106	0.18	500
	47	8	10	106	0.18	500
	47	10	10	164	0.18	500
	100	10	10	164	0.18	500
63	10	6.3	7.7	40	0.15	1000
	22	8	10	66	0.15	500
	33	8	10	66	0.15	500
	33	10	10	113	0.15	500
	47	8	10	66	0.15	500
	47	10	10	113	0.15	500
80	10	8	10	46	0.15	500
	22	8	10	46	0.15	500
	22	10	10	76	0.15	500
	33	8	10	46	0.15	500
	33	10	10	76	0.15	500
100	10	8	10	46	0.12	500
	22	8	10	46	0.12	500
	22	10	10	76	0.12	500
	33	10	10	76	0.12	500
160	2.2	8	10	22	0.20	500
	3.3	8	10	22	0.20	500
	4.7	10	10	70	0.20	500