

EF Series

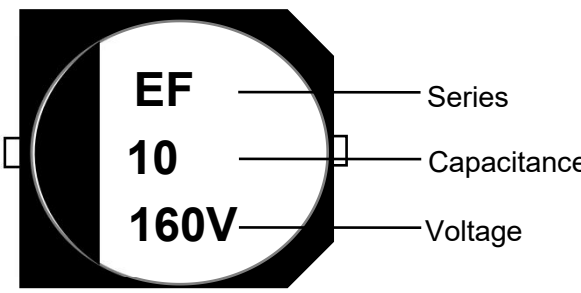
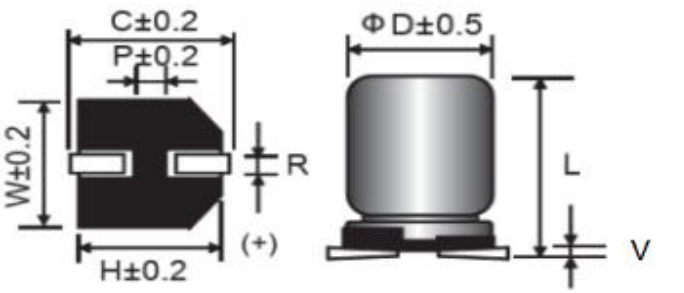
Feature

- ◆ AEC-Q200 compliant.
- ◆ Guaranteed duration: 2000 hours at 105°C.
- ◆ Medium-high voltage.
- ◆ Suitable for lighting equipment and chargers.
- ◆ RoHS compliant.

Items	Characteristics		
Temperature Range	-40°C ~ +105°C		
Rated Voltage Range	160V ~ 400V		
Capacitance Range	22 ~ 82 μF		
Capacitance Tolerance	±20% (20°C, 120Hz)		
Leakage Current	I ≤ 0.04CV + 100 μA, 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)	160~250	400
	tg δ	0.20	0.25
Endurance	After storing the capacitor at 105°C without voltage application for 2000 hours, the capacitor shall meet the above endurance requirements after being recovered to 20°C.		
	Capacitance Change	within ±20% of the initial value	
	Dissipation Factor	≤ 200% 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)	160~250	400
	Z(-25°C)/Z(20°C)	3	6
	Z(-40°C)/Z(20°C)	6	10
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)
		Leakage Current	≤ initial ralted value

Coefficient of Frequency for Rated Ripple Current

Frequency (Hz)	50	120	300	1K	≥ 10K
2.2~82	0.70	1.00	1.17	1.36	1.50

Mark	Appearance & Dimension
 <p>EF — Series 10 — Capacitance 160V — Voltage</p>	 <p>(Unit:mm)</p>

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	1.0~1.3	4.5	0.3
12.5x13.5	12.5	13.5±1.0	13.0	13.0	13.7	1.1~1.4	4.5	0.4
16x16.5	16	16.0±1.0	17.0	17.0	18.0	1.4~1.8	6.4	0.4

EF Characteristics Table

Rated Voltage (V.DC)	Capacitance ($\pm 20\%$) (μF)	Dimensions(mm)		Electrical Characteristics		Minimum Packaging Quantity (PCS)
		ΦD	L	Rated Ripple Current (120Hz/105°C) (mA r.m.s)	$\tan \delta$ (120Hz/20°C)	
160	10	8	10.5	57	0.20	500
	22	12.5	13.5	112	0.20	250
	33	12.5	13.5	137	0.20	250
	47	16	16.5	180	0.20	200
	68	16	16.5	215	0.20	200
	82	16	16.5	235	0.20	200
200	10	10	10.5	64	0.20	500
	22	12.5	13.5	112	0.20	250
	33	12.5	13.5	137	0.20	250
	47	16	16.5	180	0.20	200
	68	16	16.5	215	0.20	200
250	3.3	8	10.5	31	0.20	500
	4.7	8	10.5	37	0.20	500
	6.8	8	10.5	44	0.20	500
	10	10	10.5	64	0.20	500
	22	12.5	13.5	112	0.20	250
	33	16	16.5	150	0.20	200
	47	16	16.5	180	0.20	200
400	2.2	8	10.5	25	0.25	500
	3.3	10	10.5	36	0.25	500
	4.7	10	10.5	38	0.25	500
	6.8	12.5	13.5	47	0.25	250
	10	12.5	13.5	57	0.25	250
	22	16	16.5	115	0.25	200