

EA series

- Standard radial lead type.
- Rated voltage : 2.5~25V.
- Endurance : 2,000hours at 105°C
- Applications : motherboards, servers, VGA, etc.
- RoHS Compliance.
- Halogen Free compliant



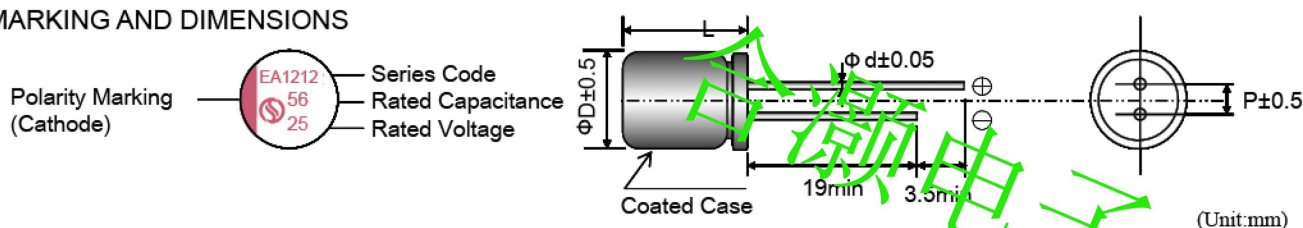
SPECIFICATIONS

Items	Conditions	Characteristics
Category Temperature Range	—	-55 to +105°C
Rated Voltage Range	—	2.5 ~ 25V
Capacitance Tolerance	at 20°C, 120 Hz	±20% (M)
Surge Voltage	at 105°C	Rated voltage ×1.15V
Leakage Current	at 20°C after 2 minutes	$I \leq 0.2CV$ or 300(μA) Whichever is greater measured,after 2minutes application of rated working voltage at +20°C. Please see the attached characteristics list
Dissipation Factor (tan δ)	at 20°C, 120 Hz	Please see the attached characteristics list
Characteristics of Impedance at low, high temperature	at -55°C,100kHz	$Z(-55^{\circ}\text{C}) / Z(+20^{\circ}\text{C}) \leq 1.25$
	at -25°C,100kHz	$Z(-25^{\circ}\text{C})/Z(+20^{\circ}\text{C}) \leq 1.15$
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 105°C.	Appearance NO significant damage.
		Capacitance change $\leq \pm 20\%$ of the initial value.
		DF (tan δ) $\leq 150\%$ of the initial specified value.
		ESR $\leq 150\%$ of the initial specified value.
		Leakage current $\leq$ The initial specified value.
Damp Heag (Steady State)	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to store 60°C, 90 to 95% RH for 1,000 hours, without DC applied.	Appearance NO significant damage.
		Capacitance change $\leq \pm 20\%$ of the initial value.
		DF (tan δ) $\leq 150\%$ of the initial specified value.
		ESR $\leq 150\%$ of the initial specified value.
		Leakage current $\leq$ The initial specified value.
Surge Voltage	The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltages specified at 105°C for 30 seconds through a protective resistor (R = 1 kΩ) and discharge for 5 minutes 30 seconds.	Appearance NO significant damage.
		Capacitance change $\leq \pm 20\%$ of the initial value.
		DF (tan δ) $\leq 150\%$ of the initial specified value.
		ESR $\leq 150\%$ of the initial specified value.
		Leakage current $\leq$ The initial specified value.

※ Note : If any doubt arises, measure the leakage current after following voltage treatment.

Voltage treatment : DC rated voltage are applied to the capacitors for 120 minutes at 105°C.

MARKING AND DIMENSIONS



Size	5x6	5x8	6.3x6	6.3x8	6.3x11	8x8	8x12	10x12、14
ϕD	5	5	6.3	6.3	6.3	8	8	10
L	L+1.0 max	L+1.0 max	L+1.0 max	L+1.5 max	L+1.0 max	L+1.0 max	L+1.0 max	L+1.0 max
ϕd	0.45	0.5	0.45	0.5	0.5	0.6	0.6	0.6
P	2	2	2.5	2.5	2.5	3.5	3.5	5.0

EA SERIES STANDARD CHARACTERISTICS LIST

Rated Voltage (S.V.)	Cap (μF)	Size DxL	Leakage current (μA) max. ※2	ESR (mΩ) max. 100k to 300kHz / 20°C	Rated Ripple Current (mA rms) 100kHz / 105°C	D.F. (tanδ) max. 120Hz / 20°C
2.5 (2.9)	390	6.3×6	300	35	2,100	0.12
	560	6.3×8	300	12	3,500	0.12
	560	8×8	300	12	4,320	0.12
	820	6.3×8	410	12	5,200	0.12
	1,200	8×8	600	12	5,200	0.12
	1,500	8×12	750	10	5,200	0.12
	2,700	10×12	1,350	10	5,230	0.12
4 (4.6)	270	6.3×6	300	35	2,000	0.12
	560	6.3×8	448	15	3,500	0.12
	680	6.3×8	544	15	3,500	0.12
	820	8×8	656	13	5,100	0.12
	1,000	8×12	800	12	5,100	0.12
	2,200	10×12	1,760	12	5,560	0.12
6.3 (7.2)	82	5×6	300	40	1,700	0.12
	100	6.3×6	300	35	1,900	0.12
	220	6.3×6	300	35	1,900	0.12
	470	6.3×8	592	15	3,630	0.12
	560	6.3×8	706	15	3,630	0.12
	560	8×8	706	15	4,210	0.12
	680	8×8	857	15	4,710	0.12
	1,000	8×12	1,260	14	5,100	0.12
	1,500	10×10	1,890	15	5,400	0.12
	2,200	10×12	2,772	15	5,400	0.12
10 (11.5)	47	5×8	300	25	2,200	0.12
	220	5×8	440	25	2,200	0.12
	330	6.3×8	660	25	3,560	0.12
	680	8×8	1,360	25	3,700	0.12
	820	8×12	1,640	12	4,500	0.12
	1,500	10×12	3,000	12	5,440	0.12
16 (18.4)	47	6.3×6	300	25	1,620	0.12
	82	6.3×6	300	25	1,890	0.12
	100	6.3×6	320	25	1,890	0.12
	270	6.3×8	864	15	2,680	0.12
	470	8×8	1,504	15	2,820	0.12
	560	8×12	1,792	20	3,640	0.12
	680	10×12	2,176	16	4,270	0.12
	820	10×12	2,624	16	4,270	0.12
	1,000	10×12	3,200	16	4,270	0.12

※ 1. Capacitance tolerance : ±20% (M)

※ 2. After 2 minutes

EA SERIES STANDARD CHARACTERISTICS LIST

Rated Voltage (S.V.)	Cap (μF)	Size DxL	Leakage current (μA) max. ※2	ESR (mΩ) max. 100k to 300kHz / 20°C	Rated Ripple Current (mA rms) 100kHz / 105°C	D.F. (tanδ) max. 120Hz / 20°C
20 (23.0)	22	6.3×6	300	60	1,450	0.12
	82	6.3×6	328	60	1,450	0.12
	220	6.3×8	880	40	1,620	0.12
	330	8×8	1,320	40	2,400	0.12
	470	8×12	1,880	24	3,320	0.12
	820	10×12	3,280	20	3,800	0.12
25 (28.8)	6.8	6.3×6	300	80	1,200	0.12
	47	6.3×6	300	40	2,000	0.12
	100	6.3×8	500	30	2,150	0.12
	180	8×8	900	30	2,580	0.12
	220	8×12	1,100	25	3,200	0.12
	330	10×10	1,650	28	3,800	0.12
	470	10×12	2,350	25	4,100	0.12
	560	10×14	2,800	20	4,500	0.12
	680	8×16	3,400	20	4,600	0.12
	820	10×14	4,100	20	5,000	0.12

※ 1. Capacitance tolerance : ±20% (M)

※ 2. After 2 minutes

FREQUENCY COEFFICIENT FOR RIPPLE CURRENT

Frequency	120Hz ≤ f < 1kHz	1kHz ≤ f < 10kHz	10kHz ≤ f < 100kHz	100kHz ≤ f < 500kHz
Coefficient	0.05	0.3	0.7	1

EA

合源电子