

Electrolytic series/

ECR type, ESI type

- Made of electrolytes and aluminum foils
- Long operation life and reliability
- Low dissipation factor and impedance
- Standard series for general purpose for pc board plug in
- Endurance with ripple current: 2,000hrs/ 3000hrs at 85/ 105°C for optional.



Application: ECR, Snap-In and RMSS are widely used in electronic ballast, power supply, UPS and inverter. Capacitance tolerance is available to customer requested. 低阻抗型電解電容器，低損失、低阻抗、長壽命、高穩定性，適用於高品質電子電源以及電源濾波、電源供應器、電子鎮流器、電子節能燈等用途。

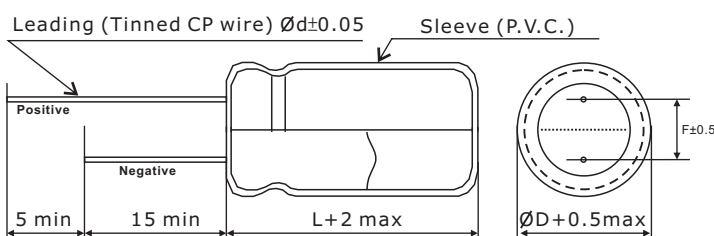
Specifications

Capacitance range	100 ~ 15000μF/ 25V ~ 100V												
Voltage range	2.2 ~ 2200μF/ 160V ~ 450V												
Capacitance tolerance	+20-20% (M) for standard/ ±10% (K) for customized.												
Temperature range	-40 ~ +85℃/ -40 ~ +105℃ optional												
Leakage current	I≤0.01CV or 3μA Whichever is greater (at 20℃, after 2 mins.) I= Leakage current(μA), C= Rated capacitance(μF), V= Rated voltage(V)												
Dissipation factor (Tanδ%)	When the capaciance exceeds 1000μF, 0.02 shall be added every 1000uF increase at 20℃, 120Hz												
	ECR	Rated V	25	35	50	63	100	160	200	250	350	400	450
		Tanδ%	0.15	0.12	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.25	0.25
	ESI	Rated V	63		100		160		200		350		450
Tanδ%		0.20		0.15		0.15		0.15		0.15		0.15	
Low temperature characteristics	Impedance ration max. at 20℃, 120Hz												
	ECR	Rated V	25	35	50	63	100	160	200	250	350	400	450
		-25℃/25℃	2	2	2	2	2	8	8	8	12	12	12
		-40℃/25℃	4	4	3	3	3	8	8	8	12	12	12
	ESI	Rated V	63		100		160		200		350		450
-25℃/25℃		2		2		4		4		4		8	
-40℃/25℃		6		5		4		8		16		20	
Load life	The following specification shall be satisfied when the capacitors are restored to 20℃ after the rated voltage with the rated ripple current is applied for 2000 hrs at 105℃ Capacitance change ≤ ±20% of the initial measured value DF (Tanδ%) ≤ ±200% of the initial specified value Leakage current ≤ The initial specified value												
Shelf life	The following specification shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1000 hrs at 105℃ without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 mins., at least 24 hrs and not more than 48hrs before the measurement Capacitance change ≤ ±20% of the initial measured value DF (Tanδ%) ≤ ±200% of the initial specified value Leakage current ≤ The initial specified value												
Ripple current & Frequency multipliers	Freq. Cap.		60(50)Hz		120Hz		500Hz		1KHz		10KHz up		
			Under 100μF		0.45		0.55		0.75		0.9		1.0
	100 to 1000μF		0.65		0.75		0.9		0.98		1.1		
	1000μF up		0.75		0.8		0.95		1.00		1.1		
Ripple current & Temperature multipliers	Temperature (℃)				85				105				
	Multiplier				1.7				1.00				

Drawing

ECR

D	10	13	16	18	22	25
F	5	5	7.5	7.5	10	12.5
d	0.6	0.6	0.8	0.8	0.8	1.0



ESI

