

LZA Series

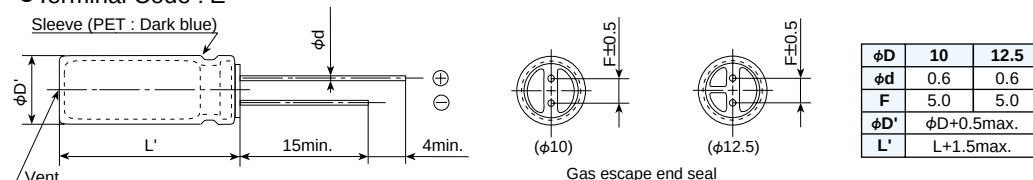
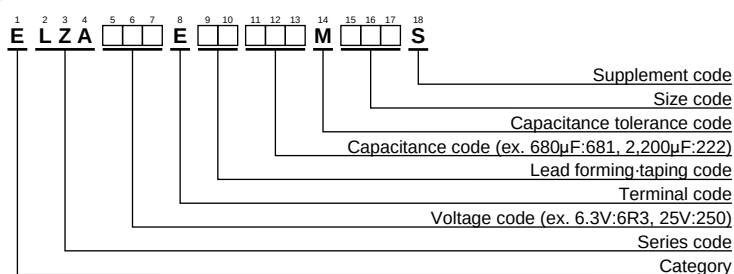
- Adoption of innovative electrolyte and new technologies
- Very low impedance at high frequency
- Endurance with ripple current: 4,000 to 5,000 hours at 105°C
- Solvent resistant type
- RoHS Compliant

**◆SPECIFICATIONS**

Items	Characteristics					
Category						
Temperature Range	−55 to +105℃					
Rated Voltage Range	6.3 to 35V _{dc}					
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)					
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃ after 2 minutes)					
Dissipation Factor (tanδ)	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V
	tanδ (Max.)	0.22	0.19	0.16	0.14	0.12
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20℃, 120Hz)					
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 5,000 hours (4,000 hours for φ10) at 105℃.					
	Capacitance change	≤±20% of the initial value				
	D.F. (tanδ)	≤200% of the initial specified value				
	Leakage current	≤The initial specified value				
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.					
	Capacitance change	≤±20% of the initial value				
	D.F. (tanδ)	≤200% of the initial specified value				
	Leakage current	≤The initial specified value				

◆DIMENSIONS [mm]

●Terminal Code : E

**◆PART NUMBERING SYSTEM**

Specifications in this bulletin are subject to change without notice.

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Z _{max} /20°C, 100kHz)	Rated ripple current (mArms/105°C, 100kHz)	Part No.
6.3	1,500	10×12.5	0.059	1,000	ELZA6R3E□□152MJC5S
	1,800	10×16	0.044	1,270	ELZA6R3E□□182MJ16S
	2,700	10×20	0.032	1,620	ELZA6R3E□□272MJ20S
	3,300	10×25	0.026	1,960	ELZA6R3E□□332MJ25S
	4,700	12.5×20	0.027	1,960	ELZA6R3E□□472MK20S
	6,800	12.5×25	0.021	2,410	ELZA6R3E□□682MK25S
10	1,000	10×12.5	0.059	1,000	ELZA100E□□102MJC5S
	1,500	10×16	0.044	1,270	ELZA100E□□152MJ16S
	2,200	10×20	0.032	1,620	ELZA100E□□222MJ20S
	2,700	10×25	0.026	1,960	ELZA100E□□272MJ25S
	3,300	12.5×20	0.027	1,960	ELZA100E□□332MK20S
	4,700	12.5×25	0.021	2,410	ELZA100E□□472MK25S
16	820	10×12.5	0.059	1,000	ELZA160E□□821MJC5S
	1,000	10×16	0.044	1,270	ELZA160E□□102MJ16S
	1,500	10×20	0.032	1,620	ELZA160E□□152MJ20S
	1,800	10×25	0.026	1,960	ELZA160E□□182MJ25S
	2,200	12.5×20	0.027	1,960	ELZA160E□□222MK20S
	3,300	12.5×25	0.021	2,410	ELZA160E□□332MK25S
25	470	10×12.5	0.059	1,000	ELZA250E□□471MJC5S
	680	10×16	0.044	1,270	ELZA250E□□681MJ16S
	1,000	10×20	0.032	1,620	ELZA250E□□102MJ20S
	1,200	10×25	0.026	1,960	ELZA250E□□122MJ25S
	1,500	12.5×20	0.027	1,960	ELZA250E□□152MK20S
	2,200	12.5×25	0.021	2,410	ELZA250E□□222MK25S
35	330	10×12.5	0.059	1,000	ELZA350E□□331MJC5S
	470	10×16	0.044	1,270	ELZA350E□□471MJ16S
	680	10×20	0.032	1,620	ELZA350E□□681MJ20S
	820	10×25	0.026	1,960	ELZA350E□□821MJ25S
	1,000	12.5×20	0.027	1,960	ELZA350E□□102MK20S
	1,500	12.5×25	0.021	2,410	ELZA350E□□152MK25S

□□ : Enter the appropriate lead forming or taping code.

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance (μF)	Frequency (Hz)			
	120	1k	10k	100k
330 to 470	0.50	0.85	0.94	1.00
680 to 1,800	0.60	0.87	0.95	1.00
2,200 to 3,300	0.75	0.90	0.95	1.00
4,700 to 6,800	0.85	0.95	0.98	1.00

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.