



# RLZ Series, Radial Aluminum Electrolytic Capacitors, Middle and high voltage, longer life, high ripple current

◎ Load life 10000-12000 hours at 105°C.

◎ Used in electronic ballast, switch, power supply, industrial measuring instruments, automotive, etc.

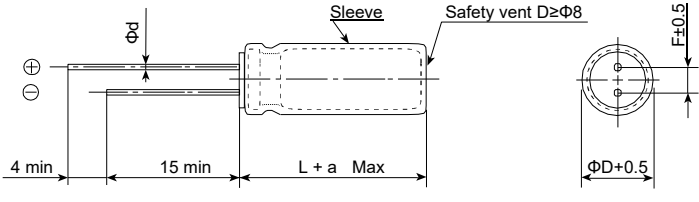
## How to order

<u>RLZ</u>	<u>338</u>	<u>M</u>	<u>016</u>	<u>01250250</u>	<u>050</u>	<u>B</u>	<u>000</u>	<u>-</u>
↓	↓	↓	↓	↓	↓	↓	↓	↓
Type	Capacitance code	Tolerance	Rated Voltage	Size Code	Pitch	Package	Lead Length	Additional characters maybe added for special requirements
<b>RLZ</b>	pF Code: 1st two digits represent significant	K: -10%~+10%	Code 016: 16VDC For DC Voltage	Code 01250250: Size 12.5*25mm	Axial: 000	B: BULK	Standard: 000	
<b>RFZ</b>	figures	L: -15%~+15%	006: 6.3VDC	00500110: Size 5*11mm	2.0: 020	T: AMMO TAPED	Cut Lead Length:	
<b>RGR</b>	3rd digit represents	M: -20%~+20%	016: 16VDC	00630110: Size 6.3*11mm	2.5: 025		3.0mm: 030	
<b>RGL</b>	multiplier	P: 0%~+100%	035: 35VDC	01250250: Size 12.5*25mm	3.5: 035		3.5mm: 035	
<b>RB2</b>	(number of zeros to follow)	Q: -10%~+30%	200: 200VDC	01600250: Size 16*25mm	5.0: 050		4.0mm: 040	
<b>RM2</b>	107 = 100uF 108 = 1000uF 338 = 3300uF	R: 0%~+20%	450: 450VDC		7.5: 075		4.5mm: 045 5.0mm: 050	
		T: -10%~+50%						
		U: -10%~+75%						
		V: -10%~+20%						
		H: -5%~+20%						
		Y: 0%~+30%						

## Specifications

Item	Characteristics							
Operating temperature range	-40°C~+105°C				-25°C~+105°C			
Rated voltage range	160-400V				450-500V			
Nominal capacitance range	1μF~220μF							
Capacitance tolerance	±20% (120Hz·20°C)							
leakage current(20°C)	I≤0.02CV +25μA(whichever is greater) after 2minute							
	I: Leakage current C: Nominal capacitance V: Rated voltage							
Dissipation factor (120Hz·20°C)	Rated voltage(V)	160	200	250	350	400	450	500
	tgδ(MAX)	0.15	0.15	0.15	0.20	0.20	0.20	0.20
Surge Voltage	WV	160	200	250	350	400	450	500
	SV	200	250	300	400	450	500	550
Low temperature characteristics (Impedance ratio max. at 120Hz)	Z—25°C/Z+20°C	3	3	3	5	5	6	12
Load Life	After applying rated voltage for 10000 -12000hours at 105°C then resumed 16 hours:							
	Capacitance change	Within ±20% of the initial measured value						
	tgδ	≤200% of the initial specified value						
	Leakage current	≤initial specified value						
Shelf Life	After storage for 1000 hours at 105°C then resumed 16 hours:							
	Capacitance change	Within ±20% of the initial measured value						
	tgδ	≤200% of the initial specified value						
	Leakage current	≤initial specified value						

**Diagram of Dimensions(mm)**

	$\phi D$	8	10	13	16	18
	$F \pm 0.5$	3.5	5.0	5.0	7.5	7.5
	$\phi d \pm 0.05$	0.5	0.6	0.6	0.8	0.8
	$\alpha$	1.0	1.5	1.5	2.0	2.0

**Multiplier for Ripple Current vs. Frequency:**

CAP( $\mu F$ )/Hz	120	1K	10K	$\geq 10K$
1-5.6	0.2	0.4	0.8	1.00
6.8-180	0.4	0.75	0.9	1.00
$\geq 220$	0.5	0.85	0.94	1.00

**Multiplier for Ripple Current vs. Temperature:**

Temperature $^{\circ}C$	$\sim 55$	70	85	105
Factor	2.23	2.00	1.75	1.00

**Standard Ratings**

Voltage (Code)		160V (160)		200V (200)		250V (250)		350V (250)	
Cap. ( $\mu F$ )	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
6.8	685							10 x 16	220
10	106	10 x 16	250	10 x 16	250	10 x 20	300	10 x 20	280
22	226	10 x 20	500	10 x 20	500	12.5 x 20	600	12.5 x 25	350
33	336	10 x 20	565	12.5 x 20	600	12.5 x 20	630	16 x 20	600
47	476	12.5 x 20	725	12.5 x 20	780	12.5 x 25	720	16 x 25	700
						16 x 20	750	18 x 20	750
68	686	12.5 x 25	950	12.5 x 25	950	16 x 25	1000	16 x 30	1100
		16 x 20	970	16 x 20	970	18 x 20	920	18 x 25	875
100	107	16 x 25	1280	16 x 25	1280	16 x 30	1400		
		18 x 20	1180	18 x 20	1180	18 x 25	1345		
150	157	16 x 30	1360	16 x 30	1360	18 x 30	1500		
		18 x 25	1360	18 x 25	1360				
220	227	16 x 25	1400						
		16 x 30	1400	18 x 30	1700				
		18 x 25	1400						

 Maximum Allowable Ripple Current (mA<sub>rms</sub>) at 105 $^{\circ}C$  100kHz

 Case Size  $\phi D \times L$  (mm)

**Standard Ratings**

Voltage (Code)		400V (400)		450V (450)		500V (500)			
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current		
1	105	8 x 12	38						
1.5	155	8 x 12	72						
		10 x 12.5	80						
1.8	185	8 x 12	76						
		10 x 12.5	96						
2.2	225	8 x 12	76						
		10 x 12.5	112						
3.3	335	10 x 12.5	120						
4.7	475	10 x 16	176	10 x 20	120				
5.6	565	10 x 16	200	10 x 20	135				
6.8	685	10 x 16	220	10 x 20	150				
10	106	10 x 20	280	12.5 x 20	320	12.5 x 20	240		
15	156			16 x 25	560	12.5 x 25	300		
				18 x 20	560	16 x 20	300		
22	226	12.5 x 25	430	16 x 25	560	16 x 25	430		
		16 x 20	600	18 x 20	560	18 x 20	430		
33	336	16 x 25	640	16 x 30	700	16 x 30	540		
		18 x 20	640	18 x 25	700	18 x 25	540		
47	476	16 x 30	840	18 x 30	900	18 x 30	640		
		18 x 25	840						
68	686	18 x 30	1000			18 x 35	750		
82	826					18 x 45	800		
180	187			18 x 46	1090				

 Maximum Allowable Ripple Current (mA<sub>rms</sub>) at 105°C 100kHz

Case Size ΦD x L (mm)