

# RFZ Series, Radial Aluminum Electrolytic Capacitors, Longer Life Assurance, High RC

◎ Load life 8000-10000 hours at 105°C.

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

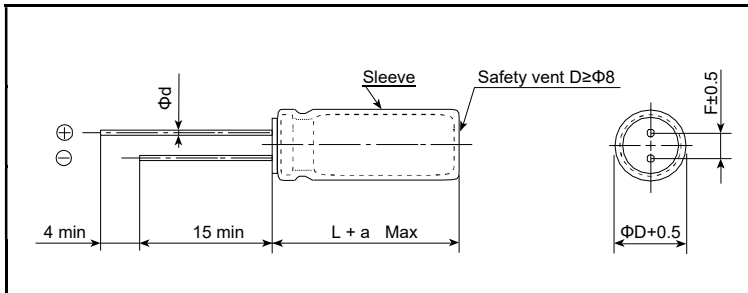
## How to order

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

## Specifications

Item	Characteristics						
Operating temperature range	-40°C~+105°C			-25°C~+105°C			
Rated voltage range	160-400V			450V			
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
	tgδ(MAX)	0.15	0.15	0.15	0.20	0.20	0.20
Surge Voltage	SV	200	250	300	400	450	500
Low temperature characteristics (Impedance ratio max. at 120Hz)	Z-25°C/Z+20°C	3	3	3	6	6	6
Load Life	After applying rated voltage for 8000 -10000hours 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)

	φD	8	10	13	16	18
	F±0.5	3.5	5.0	5.0	7.5	7.5
	φd±0.05	0.5	0.6	0.6	0.8	0.8
	α	1.0	1.5	1.5	2.0	2.0

## Multiplier for Ripple Current vs. Frequency:

CAP(μF)\Hz	120	1K	10K	≥10K
1-5.6	0.2	0.4	0.80	1.00
6.8-180	0.4	0.75	0.90	1.00
≥220	0.5	0.85	0.94	1.00

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

Temperature°C	~55	70	85	105
Factor	2.23	2.00	1.75	1.00

**Standard Ratings**

Voltage (Code)		160V (160)		200V (200)		250V (250)		350V (350)	
Cap. (µF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
6.8	685	8 x 12	160	8 x 12	160	8 x 12	150	10 x 16	220
10	106	10 x 16	250	10 x 16	250	10 x 20	280	10 x 20	280
22	226	10 x 20	500	10 x 20	500	12.5 x 20	600	12.5 x 20	350
33	336	10 x 20	500	12.5 x 20	600	12.5 x 20	600	16 x 20	500
47	476	12.5 x 20	660	12.5 x 20	660	12.5 x 25	720	16 x 25	660
						16 x 20		18 x 20	
68	686	12.5 x 25	760	12.5 x 25	760	16 x 25	920	16 x 30	850
		16 x 20		16 x 20		18 x 20		18 x 25	
100	107	13 x 21	1155						
		16 x 25	1120	16 x 25	1120	16 x 30	1200		
		18 x 20		18 x 20		18 x 25			
150	157	16 x 30	1360	16 x 30	1360	18 x 30	1500		
		18 x 25		18 x 25					
220	227	16 x 30	1400	18 x 30	1700				
		18 x 25							

Voltage (Code)		400V (400)		450V (450)					
Cap. (µF)	Code	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	445	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 16	330	10 x 20	330				
		10 x 20	280	12.5 x 20	320				
22	226	12.5 x 20	430		560				
		12.5 x 25		16 x 25					
		16 x 20		18 x 20					
33	336	16 x 25	640	16 x 30	700				
		18 x 20		18 x 25					
47	476	16 x 30	840		880				
		18 x 25		18 x 30					
68	686	18 x 30	1000						

Maximum Allowable Ripple Current (mArms) at 105°C 100kHz

Case Size ΦD x L (mm)