

RRZ Series, Radial Aluminum Electrolytic Capacitors, Long life, high ripple

◎ Load life 3000hours at 105°C.

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

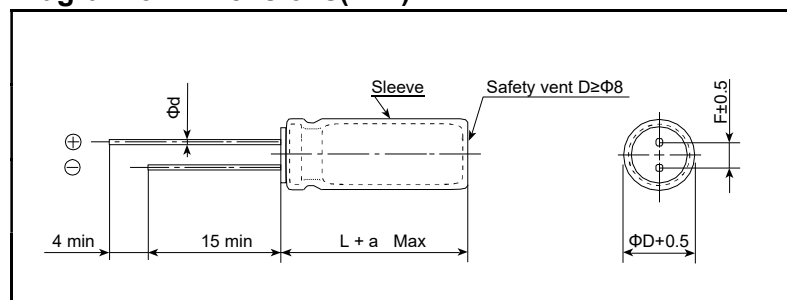
How to order

RRZ	338	M	016	01250250	050	B	000	-
Type	Capacitance code	Tolerance	Rated Voltage	Size Code	Pitch	Package	Lead Length	Additional characters maybe added for special requirements
RRZ 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

Items	Characteristics								
Operating temperature range	-40~+105°C				-25~+105°C				
Rated voltage range	160V~400V DC				450V DC				
Nominal capacitance tolerance	1μF~220μF								
Capacitance tolerance	±20% (120Hz:20°C)								
leakage current(20°C)	$I \leq 0.02CV + 25\mu A$ after 2 minute								
	I: Leakage current C: Nominal capacitance V: Rated voltage								
Surge Voltage	WV	160	200	250	350	400	450		
	SV	200	250	300	400	450	500		
Dissipation factor (120Hz:20°C)	Rated voltage(V)	160	200	250	350	400	450		
	tgδ	0.15	0.15	0.15	0.20	0.20	0.20		
	When capacitance is more than 1000μF, tgδ will add 0.02 per 1000μF addition.								
Low temperature characteristics (Impedance ratio max. at 120Hz)	Rated voltage(v)	6.3	10	16	25	35	50	63	100
		160	200	250	350	400	450		
	Z-25°C/Z+20°C	3	3	3	5	5	6		
Endurance	After applying rated for 3000 hours								
	Capacitance change	Within ±25% 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	5	6.3	8	10	13	16	18	22
	F±0.5	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10
	φd±0.05	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8
	α	1.0		1.5		2.0			
		Safety vent D≥φ8							

Multiplier for Ripple Current vs. Frequency:

CAP(μF)\Hz	120	1K	10K	100K
1-5.6	0.2	0.40	0.8	1.00
6.8-180	0.40	0.75	0.9	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
4.7	475					8 x 12	160	10 x 12.5	150
5.6	565							10 x 12.5	180
6.8	685			8 x 12	204	10 x 12.5	250	10 x 16	280
10	106	10 x 16	320	10 x 16	320	10 x 16	320	10 x 20	350
22	226	10 x 20	500	10 x 20	500	10 x 20	500	12.5 x 20	650
33	336	10 x 20	650	10 x 20	650	12.5 x 20	800	16 x 20	900
47	476	10 x 20	750	12.5 x 20	980	12.5 x 20	980	16 x 20	1080
68	686	12.5 x 20	1180	12.5 x 25	1300	16 x 20	1300	18 x 25	1470
				16 x 20	1300				
82	826			16 x 20	1380	16 x 20	1380	18 x 25	1530
100	107	12.5 x 25	1420	16 x 20	1420	16 x 25	1530		
		16 x 20	1420						
150	157	16 x 25	1890	16 x 25	1890	18 x 25	1940		
220	227	18 x 25	2370	18 x 30	2648				

Voltage (Code)		400V (400)		450V (450)					
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current				
1	105	8 x 12	60						
1.5	155	8 x 12	90						
		10 x 12.5	100						
1.8	185	8 x 12	95						
		10 x 12.5	120						
2.2	225	8 x 12	95	8 x 12	105				
		10 x 12.5	140						
3.3	335	10 x 12.5	150						
4.7	475	10 x 16	220	10 x 20	220				
5.6	565	10 x 16	250	10 x 20	250				
6.8	685	10 x 16	280	10 x 20	280				
10	106	10 x 20	350	12.5 x 20	450				
15	156	12.5 x 20	550	12.5 x 25	600				
22	226	12.5 x 20	760	16 x 20	730				
33	336	16 x 20	900	16 x 25	980				
47	476	16 x 25	1180	18 x 25	1200				
		18 x 20	1180						
68	686	18 x 25	1470						

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

Case Size ΦD x L (mm)