

RLL Series, Radial Aluminum Electrolytic Capacitors, 130C High temperature high ripple current long life

◎ Load life 5000-6000 hours at 130°C.

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

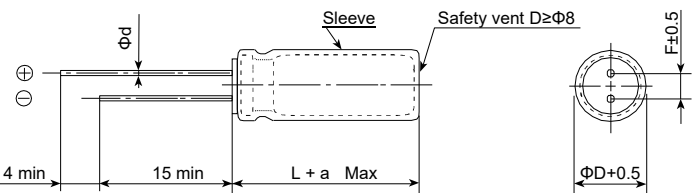
How to order

RLL	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
RLL RRL 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 000: 0.5VDC 016: 16VDC 035: 35VDC 200: 200VDC 450: 450VDC	Code 01250250: Size 12.5*25mm 0000110: Size 3*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~+130°C			A-25°C~+130°C			
Rated voltage range	160-400V			450V			
Nominal capacitance range	1.5μF~100μF						
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	0.2	0.2	0.2
Low temperature characteristics (Impedance ratio max. at 120Hz)	Rated voltage(V)	160	200	250	350	400	450
	Z-25°C/Z+20°C	3	3	3	5	5	6
Load Life	After applying rated voltage for 5000h ϕ 12.5 >6000h, at 130°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 ±30% of the initial measured value					
	tgδ	≤300% of the initial specified value					
	Leakage current	≤initial specified value					

Diagram of Dimensions(mm)

	φD	10	12.5	13	16
	F±0.5	5.0	5.0	5	7.5
	φd±0.05	0.6			0.8
	α	(L<20) 1.5 (L>20) 2.0			

Multiplier for Ripple Current vs. Frequency:

CAP(μF)\Hz	120	1K	10K	100K
1-5.6	0.2	0.4	0.80	1.00
6.8-100	0.4	0.75	0.90	1.00

Standard Ratings

Voltage (Code)		160V (160)		200V (200)		250V (250)		350V (350)		400V (2G)		450V (2W)	
Cap. (μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
1.5	155											10 x 16	50
1.8	185									10 x 16	50	10 x 16	52
2.2	225							10 x 16	50	10 x 16	52	10 x 16	54
2.8	285									10 x 16	56	10 x 16	56
3.3	335							10 x 16	58	10 x 16	62	10 x 16	62
4.7	475					10 x 16	56	10 x 20	70	10 x 20	72	10 x 20	72
5.6	565					10 x 16	60	12.5 x 20	85	12.5 x 20	78	12.5 x 20	78
6.8	685					10 x 16	65	12.5 x 20	120	12.5 x 20	120	12.5 x 20	84
8.2	825	10 x 16	65	10 x 16	70	10 x 16	70	12.5 x 20	135	12.5 x 20	145	12.5 x 20	156
10	106	10 x 16	140	10 x 16	140	10 x 16	155	12.5 x 20	155	12.5 x 20	155	12.5 x 20	179
15	156	10 x 16	235	10 x 20	235	12.5 x 20	250	12.5 x 25	168	12.5 x 25	180	12.5 x 25	235
22	226	10 x 20	280	12.5 x 20	280	12.5 x 20	335	16 x 25	175				
33	336	12.5 x 20	290	12.5 x 20	335	12.5 x 25	335						
47	476	12.5 x 25	365	12.5 x 25	365	16 x 25	360						
68	686	16 x 25	380	16 x 25	380								
100	107	16 x 25	565										
180	187			16 x 25	1160								
220	227			16 x 30	1320								
				18 x 25	1370								

Maximum Allowable Ripple Current (mArms) at 130°C 100kHz

Case Size ΦD x L (mm)