

RRL Series, Radial Aluminum Electrolytic Capacitors, 105C Standard General Products

◎ 105°C, standard size.

◎ Used in color display, switch, power supply, communication sets etc

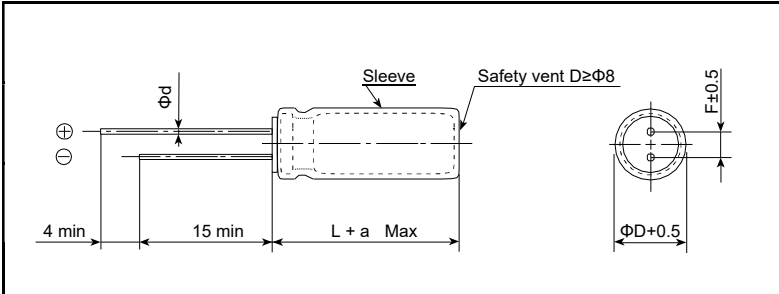
How to order

RRL	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		
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	6.3V~100V DC					160V~450V DC						
Nominal capacitance tolerance	0.1μF~22000μF											
Capacitance tolerance	±20% (120Hz·20°C)											
leakage current(20°C)	WV ≤ 100V I ≤ 0.01CV or 3 μA after 2 minute (whichever is greater)											
	WV > 160V I ≤ 0.03CV + 10μA after 3 minute											
	I: Leakage current C: Nominal capacitance V: Rated voltage											
Dissipation factor (120Hz·20°C)	Rated voltage(V)	6.3	10	16	25	35	50	63	100	160~250	400~450	
	tgδ(MAX)	0.26	0.22	0.18	0.16	0.14	0.12	0.10	0.08	0.20	0.24	
	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	160~250	400	450
		6.3	10	16	25	35	50	63	100			
	Z-25°C/Z+20°C	5	4	3	2	2	2	2	2	4	6	15
Z-40°C/Z+20°C	10	8	6	4	3	3	3	3				
Endurance	After applying rated for 2000 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										
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		0.6		0.8			
	α	(L<20) 1.5 (L≥20) 2.0							

Multiplier for Ripple Current vs. Frequency:

WV(V)	CAP(uF)\Hz	50(60)	120	1K	≥10K
≤100	CAP<100	0.75	1.00	1.57	2.00
	100≤CAP<1000	0.80	1.00	1.34	1.50
	CAP≥1000	0.85	1.00	1.00	1.15
≥160	CAP<1000	0.85	1.00	1.40	1.50

Multiplier for Ripple Current vs. Temperature:

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

Standard Ratings

WV(Code)		6.3V(006)		10V(010)		16V(016)		25V(025)		35V(035)		50V(050)		63V(063)	
C(uf)	Code	φD×L	R.C.	φD×L	R.C.	φD×L	R.C.	φD×L	R.C.	φD×L	R.C.	φD×L	R.C.	φD×L	R.C.
0.1	104											5×11	1.3	5×11	1.3
0.22	224											5×11	2.9	5×11	2.9
0.33	334											5×11	4	5×11	4.5
0.47	474											5×11	7	5×11	7
1	105											5×11	13	5×11	13
2.2	225											5×11	20	5×11	20
3.3	335											5×11	26	5×11	28
4.7	475							5×11	26	5×11	28	5×11	32	5×11	32
10	106					5×11	35	5×11	38	5×11	41	5×11	48	5×11	48
22	226	5×11	45	5×11	48	5×11	54	5×11	58	5×11	61	5×11	72	5×11	82
33	336	5×11	54	5×11	60	5×11	64	5×11	69	5×11	75	5×11	90	6.3×11	100
47	476	5×11	65	5×11	70	5×11	100	5×11	100	5×11	110	6.3×11	115	6.3×11	140
								5×9	75						
68	686	5×11	75	5×11	80	5×11	105	6.3×11	120	6.3×11	140	6.3×11	155	8×12	185
100	107													8×11.5	230
		5×11	95	5×11	105	5×11	110	6.3×11	145	6.3×11	175	8×12	200	8×12	230
220	227	5×11	160	5×11	175	6.3×11	215	8×12	235	8×12	300	10×12	245	10×16	270
												10×16	255		
330	337	6.3×11	195					8×11.5	324						
		6.3×12	345	6.3×11	210	6.3×11	265	8×12	335	10×12	520	10×16	360	10×20	400
470	477							8×16	420						
		6.3×11	230	6.3×11	290	8×12	370	10×12	440	10×16	540	10×20	470	13×21	550
680	687	8×12	360	8×12	420	10×12	480	10×16	520	10×20	650	13×21	660	13×25	720
1000	108					10×12.5	550					13×21	690		
		8×12	430	10×12	520	10×16	590	10×20	710	13×21	900	13×25	770	16×25	880
1500	158	10×12	620	10×16	770	10×20	820	13×21	920	13×25	1150	16×25	1000	16×35	1185
2200	228	10×16	770	10×20	860	13×21	1000	13×25	1200	16×25	1290	16×35	1300	18×36	1350
3300	338	10×20	960	13×21	1100	13×25	1200	16×25	1460	16×32	1650	18×36	1480	22×37	1650
4700	478	13×21	1150	13×25	1350	16×25	1600	16×32	1670	18×36	1900	22×40	1750		
6800	688	13×25	1450	16×25	1670	16×32	1870	18×36	2050	22×40	2150				
10000	109	16×25	1680	16×30	1900	18×36	2060	22×40	2150						
15000	159	16×36	2075	16×36	2180	22×40	2420								
22000	229	18×40	2300	22×40	2640										

Permit ripple current : (mA rms, 105°C, 120HZ)

Case size: φD×L (mm)

Standard Ratings

WV(Code)		100V(100)		160V(160)		200V(200)		250V(250)		350V(350)		400V(400)		450V(450)	
C(uf)	Code	φD×L	R.C.	φD×L	R.C.	φD×L	R.C.	φD×L	R.C.	φD×L	R.C.	φD×L	R.C.	φD×L	R.C.
0.47	474	5×11	7.5	5×11	11	5×11	12	5×11	12	6.3×11	13	6.3×11	14	6.3×11	14
1	105	5×11	15	6.3×11	17	6.3×11	17	6.3×11	16	6.3×11	16	6.3×11	20	8×12	20
2.2	225	5×11	21	6.3×11	25	6.3×11	25	6.3×11	20	8×12	31	8×12	36	8×12	35
3.3	335	5×11	30	6.3×11	32	6.3×11	35	6.3×11	38	8×12	38	8×12	47	10×12	40
4.7	475	5×11	35	6.3×11	42	8×12	50	8×12	46	8×12	52	8×12	65	10×16	62
6.8	685	6.3×11	42	8×12	56	8×12	55	8×12	52	10×12	52	10×12	68	10×16	66
10	106											10×12.5	100		
		6.3×11	56	8×12	62	8×12	63	10×12	70	10×16	79	10×16	85	10×20	72
22	226	6.3×11	96	10×16	75	10×16	78	10×16	88	13×21	92	13×21	110	13×25	98
33	336	8×12	155	10×20	105	10×20	130	10×20	140	13×25	160	13×25	190	16×25	180
47	476	10×12	170	10×20	170	13×21	190	13×21	190	16×25	200	16×25	300	16×32	210
68	686	10×16	240	13×21	210	13×25	240	13×25	240	16×25	225	16×32	320	18×32	292
100	107	10×20	280	13×25	280	16×25	300	16×25	355	18×32	320	18×32	350	18×35	300
150	157	13×21	295	16×25	330	16×32	345	16×32	395	18×36	390	19×37	400	19×37	332
180	187											18×40	800		
220	227	13×21	520	16×32	470	18×32	480	18×36	410	19×37	420				
330	337	13×25	690	18×32	580	18×36	520	19×37	500						
470	477	16×25	860	18×36	705	18×40	650								
		16×32	890												
680	687	16×36	920	18×40	860										
1000	108	18×40	1300												

Permit ripple current : (mArms, 105°C, 120HZ)

Case size: φD×L (mm)