

RJP Series, Snap-In terminal Long Life

◎ Load life of 3000hours at 105℃

◎ Best for switch, power supply and inverter

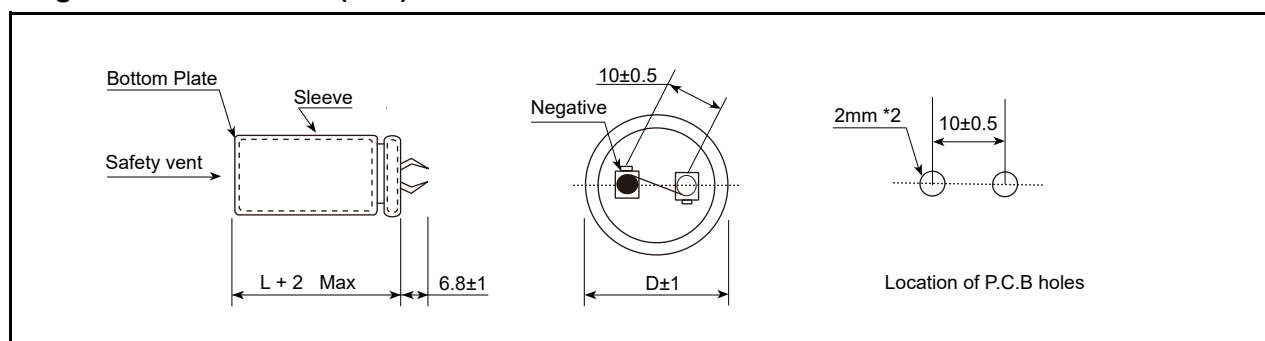
How to order

<u>RJP</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
RJP 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	M: -20%~+20%	Code 016: 16VDC For DC Voltage 006: 6.3VDC 016: 16VDC 035: 35VDC 200: 200VDC 450: 450VDC	Code 01250250: Size 12.5*25mm 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℃					-25~+105℃		
Rated voltage range	16V~100V DC					160V~450V DC		
Nominal capacitance toletance	68μF~47000μF							
Capacitance toletance	±20% (120Hz·20℃)							
leakage current(20℃)	I≤3 $\sqrt{CV}$ after 5minute I: Leakage current C: Nominal capacitance V: Rated voltage							
Dissipation factor (120Hz·20℃)	Ur(V)	16	25	35	50	63-100	160-250	350-450
	tgδ	0.5	0.4	0.35	0.3	0.2	0.15	0.2
Low temperature characteristics (Impedance ratio max. at 120Hz)	Rated voltage(v)	10-100			160-250		350-450	
	Z—25℃/Z+20℃	4			4		8	
	Z—40℃/Z+20℃	15						
Endurance	After applying rated for 3000 hours at 105℃ 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℃ then resumed 16 hours:							
	Capacitance change		Within ±15% of the initial measured value					
	tgδ		≤150% of the initial specified value					
	Leakage current		≤initial specified value					

Diagram of Dimensions(mm)



Multiplier for Ripple Current vs. Frequency:

CAP(μF)/Hz	50(60)	120	1K	10-50K
10-100V	0.90	1.00	1.15	1.25
160-250V	0.80	1.00	1.25	1.47
315-450V	0.80	1.00	1.30	1.47

Multiplier for Ripple Current vs. Temperature:

Temperature℃	45	60	85	95	105
Factor	2.1	1.9	1.4	1.25	1

Standard Ratings

Voltage (Code)		16V								25V							
Size CAP(μF)		22		25		30		35		22		25		30		35	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
4700	478									22*25	1.55						
6800	688	22*25	1.75							22*30	1.91	25*25	1.91				
8200	828									22*35	2.7	25*30	2.7	30*25	2.7		
10000	109	22*30	2.1	25*25	2.05					22*40	3	25*35	3	30*30	3.05		
12000	129	22*35	2.9	25*30	2.9					22*45	2.69	25*40	3.2	30*30	3.2		
15000	159	22*40	3.2	25*35	3.2	30*25	3.2					25*45	3.6	30*35	3.6	35*25	2.8
18000	189	22*45	3.5	25*40	3.5	30*30	3.5	35*25	3.1			25*50	3.54	30*40	3.65	35*30	3.6
22000	229			25*45	3.8	30*35	3.65	35*25	3.8					30*45	4.3	35*35	3.7
27000	279			25*50	4.2	30*40	3.83	35*30	4.2							35*35	4.3
33000	339					30*45	4.3	35*35	4.7							35*45	4.8
39000	399					30*50	4.81	35*40	5.1								
47000	479							35*45	5.53								

Voltage (Code)		35V								50V							
Size CAP(μF)		22		25		30		35		22		25		30		35	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
2200	228									22*30	1.85						
3300	338	22*25	1.45							22*35	2	25*30	2				
3900	398	22*30	2							22*40	2.25	25*35	2.28	30*25	2.22		
4700	478	22*30	2.2	25*25	1.78					22*45	2.56	25*40	2.65	30*30	2.5	35*25	2.67
5600	568	22*35	2.4	25*30	2.4	30*25	2.12			22*50	2.8	25*40	2.8	30*35	2.67	35*30	2.95
6800	688	22*40	2.6	25*35	2.6	30*25	2.6					25*50	3.37	30*40	3.39	35*30	3.3
8200	828	22*50	2.9	25*40	2.9	30*30	2.9									35*35	3.85
10000	109			25*45	3.2	30*35	3.2	35*25	3.25							35*40	4.4
12000	129			25*50	3.5	30*40	3.5	35*30	3.5							35*45	4.5
15000	159					30*45	3.9	35*35	3.9								
18000	189							35*40	4.51								
22000	229							35*45	5.24								
33000	339							35*50	6.2								

Maximum Allowable Ripple Current (Arms) at 105℃ 120Hz

Case size: φD×L (mm)

Standard Ratings

Voltage (Code)		63V								80V							
Size CAP(μF)		22		25		30		35		22		25		30		35	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
820	827									22*25	0.11						
1200	128	22*25	1.4							22*30	1.5	25*25	1.39				
1500	158	22*25	1.65							22*35	1.61	25*30	1.62				
1800	188	22*30	1.7	25*25	1.7					22*40	1.83	25*30	1.9	30*25	1.81		
2200	228	22*35	2	25*30	2					22*45	2.09	25*35	2.1	30*30	2.1	35*25	2.17
2700	278	22*40	2.2	25*35	2.2							25*45	2.43	30*35	2.43	35*25	2.4
3300	338	22*50	2.32	25*40	2.27	30*35	2.55	35*25	2.41			25*50	2.76	30*40	2.78	35*30	2.6
3900	398			25*45	2.54	30*35	2.85	35*25	2.9					30*45	3.12	35*35	3.07
4700	478			25*50	3	30*40	3	35*30	3					30*50	3.56	35*40	3.5
5600	568					30*45	3.28	35*35	3.3							35*45	3.87
6800	688					30*50	3.86	35*40	3.84							35*50	4.19
8200	828							35*45	4.43								
10000	109							35*50	5.11								

Voltage (Code)		100V								160V							
Size CAP(μF)		22		25		30		35		22		25		30		35	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
330										22*25	1.2						
390										22*30	1.3						
470										22*30	1.55	25*25	1.55				
560	567	22*25	1.07							22*35	1.67	25*30	1.67				
680	687									22*40	1.82	25*35	1.85	30*25	1.82		
820	827	22*30	1.35	25*25	1.35					22*45	2.04	25*40	2.04	30*30	2.04	35*25	2.04
1000	108	22*35	1.54	25*30	1.56							25*45	2.4	30*35	2.39	35*30	2.45
1200	128	22*40	1.74	25*35	1.76	30*25	1.71					25*50	2.62	30*40	2.49	35*30	2.49
1500	158	22*45	1.99	25*40	2.03	30*30	2	35*25	1.98					30*45	2.84	35*35	2.84
1800	188			25*45	2.28	30*35	2.27	35*25	2.35					30*45	3.32	35*40	3
2200	228			25*50	2.57	30*40	2.59	35*30	2.6							35*45	3.5
2700	278					30*45	2.91	35*35	2.9								
3300	338					30*50	3.32	35*40	3.31								
3900	398							35*45	3.69								
4700	478							35*50	4.14								

Voltage (Code)		200V								250V							
Size CAP(μF)		22		25		30		35		22		25		30		35	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
180	187									22*25	0.88						
220	227	22*25	1							22*30	1	25*25	1.08				
270	277	22*30	1.13							22*25	1.18	25*30	1.18				
330	337	22*30	1.25	25*25	1.25					22*40	1.3	25*30	1.3	30*25	1.3		
390	397	22*35	1.31	25*30	1.35					22*45	1.45	25*35	1.45	30*30	1.45		
470	477	22*40	1.5	25*30	1.5	30*25	1.5			22*50	1.6	25*40	1.65	30*30	1.65	35*25	1.65
560	567	22*45	1.67	25*35	1.67	30*30	1.67					25*45	1.8	30*35	1.8	35*30	1.8
680	687	22*50	1.78	25*40	1.82	30*30	1.78					25*50	2	30*40	2	35*30	2
820	827			25*45	2.1	30*35	2.04	35*30	2.04					30*45	2.3	35*35	2.3
1000	108			25*50	2.42	30*40	2.3	35*35	2.3					30*50	2.6	35*40	2.6
1200	128					30*45	2.65	35*40	2.84							35*45	3
1500	158							35*45	3.08								
1800	188							35*50	3.48								
2200	228																

Standard Ratings

Voltage (Code)		350V								400V							
Size CAP(μF)		22		25		30		35		22		25		30		35	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
68	686	22*25	0.47							22*25	0.5						
82	826									22*25	0.64						
100	107	22*25	0.69							22*30	0.7						
120	127	22*30	0.75							22*35	0.75	25*25	0.75				
150	157	22*35	0.8	25*30	0.8	30*25	0.83			22*40	0.88	25*30	0.83	30*25	0.88		
180	187	22*40	0.92	25*30	0.92	30*25	0.9			22*45	0.98	25*35	0.98	30*30	0.98		
220	227	22*45	1.05	25*35	1.04	30*30	1.02	35*25	1.05	22*50	1.1	25*40	1.1	30*30	1.1		
270	277			25*40	1.18	30*30	1.17	35*25	1.17			25*50	1.22	30*35	1.22	35*30	1.22
330	337					30*35	1.34	35*30	1.22					30*45	1.44	35*30	1.44
390	397					30*40	1.5	35*35	1.47					30*45	1.6	35*35	1.6
470	477							35*35	1.69							35*40	1.9
560	567							35*40	1.9							35*45	2.12
680	687							35*45	2.2							35*50	2.55
820	827															35*60	2.91
1000	108																
1200	128																

Voltage (Code)		450V							
Size CAP(μF)		22		25		30		35	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
68	686	22*25	0.55						
82	826	22*30	0.64						
100	107	22*35	0.7	25*25	0.7				
120	127	22*40	0.8	25*30	0.8	30*25	0.8		
150	157	22*45	0.88	25*35	0.88	30*30	0.88		
180	187			25*40	1	30*30	1		
220	227			25*45	1.1	30*35	1.1	35*30	1.12
270	277					30*40	1.28	35*35	1.28
330	337					30*50	1.45	35*40	1.45
390	397							35*40	1.66
470	477							35*40	1.66
								35*45	1.78
								35*50	1.85
560	567							35*45	1.80
								35*50	2.15
680	687							35*60	2.3
820	827								

Maximum Allowable Ripple Current (Arms) at 105°C 120Hz Case size: φD×L (mm)