

RPH Series, Radial Aluminum Electrolytic Capacitors, 125C Guaranteed Low ESR at high frequency

- ◎ Low ESR at high frequency range.
- ◎ Mainly used in automotive, LED drive power, power supply, communication products, etc.

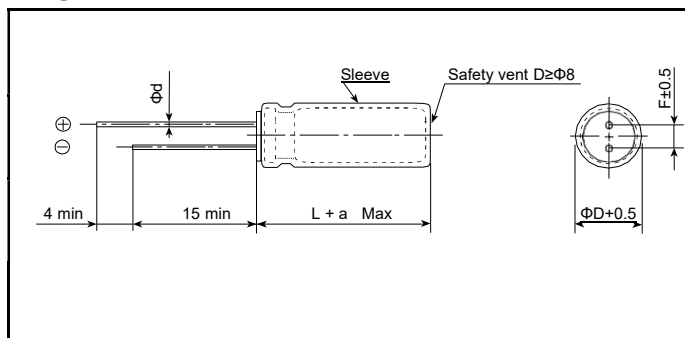
How to order

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

Specifications

Items	Characteristics	
Operating temperature range	-55~+125°C	
Rated voltage range	2.5V~35V DC	
Capacitance tolerance	±20% (120Hz·20°C)	
Leakage current(+20°C, max)	I≤0.2CV (μA after 2 minutes)	
Dissipation factor (tanδ, at 20°C, 120Hz·)	Not exceed the value specified	
ESR (100KHz)	Not exceed the value specified	
Endurance 125°C, 2000h, at rated voltage	Capacitance change	Within ±20% of the value before test
	Leakage current	Not exceed the value specified
	ESR	Not exceed 150% of the value specified
	Dissipation factor	Not exceed 150% of the value specified
Moisture Resistance Stored at 60°C, RH90~95%, 1000h	Capacitance change	Within ±20% of the value before test
	Leakage current	Not exceed the value specified
	ESR	Not exceed 150% of the value specified
	Dissipation factor	Not exceed 150% of the value specified

Diagram of Dimensions(mm)

	φD	5	6.3	8	10
	F±0.5	2.0	2.5	3.5	5.0
	φd±0.05	0.45	0.5/0.6	0.6	0.6
	α	1	1	1.5	1.5

Frequency Coefficient for Ripple Current

Frequency	120Hz≤freq.<1KHz	1KHz≤freq.<10KHz	10KHz≤freq.<100KHz	100KHz≤freq.<300KHz
Coefficient	0.05	0.3	0.7	1

Standard Ratings

Voltage (Code)		2.5V (002)			4V (004)			6.3V (006)		
Cap. (μF)	Code	Case Size	ESR (mΩ)	Ripple Current	Case Size	ESR (mΩ)	Ripple Current	Case Size	ESR (mΩ)	Ripple Current
47	476									
100	107									
180	187									
220	227									
270	277									
560	567							8 x 8	12	5700
820	827	6.3 x 8	12	5600						
1200	128	8 x 11.5	10	6100	10 x 12.5	10	6100			

Voltage (Code)		16V (016)			25V (025)			35V (035)		
Cap. (μF)	Code	Case Size	ESR (mΩ)	Ripple Current	Case Size	ESR (mΩ)	Ripple Current	Case Size	ESR (mΩ)	Ripple Current
47	476							8 x 8	90	1200
100	107	6.3 x 11	24	2820						
180	187				8 x 11.5	35	2750			
220	227	8 x 8	13	4300	8 x 11.5	40	2000	10 x 12.5	55	2450
270	277				8 x 11.5	40	2000			
330	337							8 x 16	20	4100
560	567									
820	827									
1200	128									

Maximum Allowable Ripple Current: (mArms, 125°C, 100KHZ)

Case size: φD×L (mm)