

Miniature Aluminum Electrolytic Capacitors RKB series

Code in front of series have been extracted from product code, which describes the segment of products, such as type and features.

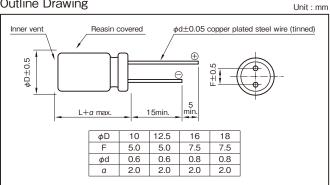
- Guaranteed 3000 hours at 135°C. (ϕ 10, 63 to 80V : 2000 hours)
- · High temperature guaranteed and low ESR series for automotive.
- Environmental : GREEN CAP™ , RoHS compliance.



Specifications

Item	Performance										
Category temperature range (°C)	-40 to +135										
Tolerance at rated capacitance (%)	±20 (20°C,120Hz										
Leakage current (μA) (max.)	0.01CV or 3 whichever is larger (after 2 minutes) C : Rated capacitance (μF), V : Rated voltage (V) (20°C										
Tangent of loss angle (tanδ)	Rated voltage (V) tano (max.) 0.02 is added to every 1000µF increase over 100	10 0.20	16 0.16	25 0.14	35 0.12	50 0.10	63 0.10	80 0.08 (20°C,120Hz)			
Characteristics at high and low temperature	Rated voltage (V) Impedance ratio (max.) Z-40°C/Z+20°C	Rated voltage (V) 10 16 25 35 50 63 80									
Endurance (135°C) (Applied ripple current)	Test time Leakage current Percentage of capacitance change Tangent of the loss angle	hours)									
Shelf life (135°C)	Test time: 1000hours; other items are	same as the e	ndurance. Vo	oltage applicat	ion treatment	: According to	JIS C5101-4	4.1			
Applicable standards		JIS C5101	- 1, - 4 (IEC	60384 - 1, -	4)						

Outline Drawing



Coefficient of Frequency for Rated Ripple Current

Rated Frequency (Hz) capacitance (µF)	50 · 60	120	1k	10k · 100k
220 to 330	0.55	0.65	0.85	1
470 to 1000	0.70	0.75	0.90	1
1200 to 6800	0.80	0.85	0.95	1

Product code system : 10V1000μF (*For automotive: powertrain, safety)										
RA*	RKB Series	102	Cap tol.	1L Voltage	F20 Size	300 Lead-forming	Additional code			

- · For details, refer to the various "Product Code System" pages.
- · Lead-forming and packing code on this page are for lead long and standard packing products.

For standard packing, please refer to the "PACKING" page.



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Standard Ratings

Rated voltage (V) 10 (1L)					6 (1E)		25 (1T)				35 (1G)					
Rated Item capacitance	Case	Size	ESR	Rated ripple current	Case	Size	ESR	Rated ripple current	Case	Size	ESR	Rated ripple current	Case	Size	ESR	Rated ripple current
(μF)	$\phi D \times L (mm)$	code	(Ω max.)	(mArms)	$\phi D \times L (mm)$	code	(Ω max.)	(mArms)	$\phi D \times L (mm)$	code	(Ω max.)	(mArms)	$\phi D \times L (mm)$	code	(Ω max.)	(mArms)
220	_			_	10×12.5	F12	0.098	725	10×12.5	F12	0.098	725	10×12.5	F12	0.098	725
													10×16	F16	0.075	951
330	10×12.5	F12	0.098	725	10×12.5	F12	0.098	725	10×12.5	F12	0.098	725	10×16	F16	0.075	951
	10112.0		0.000	,,,,	10112.0		0.000	,,,,	10×16	F16	0.075	951	10×20	F20	0.057	1130
470	10×12.5	F12	0.098	725	10×16	F16	0.075	075 951	10×16	F16	0.075	951	10×20	F20	0.057	1130
470	10.712.0	1 12	0.000	720	10/10	1 10	0.070	301	10×20	F20	0.057	1130	12.5×20	G20	0.040	1550
1000	10×20	F20	0.057	1130	10×20	F20	0.057	1130	12.5×20	G20	0.040	1550	12.5×25	G25	0.032	1880
1000	12.5×15	G15	0.059	1130	12.5×20	G20	0.040	1550	12.5×25	G25	0.032	1880	12.5^25	G25	0.032	
1200						_		— 1.	12.5×20	G20	0.040	1550	12.5×30	G30	0.029	2160
1200				_			_		12.5×20	uzu	0.040		16×20	J20	0.032	2020
1500	_ -	_	_	_		_	_	_			- -	_	12.5×35	G35	0.023	2580
1500					_				_				16×31.5	J31	0.020	3040
1800		_				_			12.5×25	G25	0.032	1880	12.5×40	G40	0.020	2920
1800	_		_	_	_		_	_	16×20	J20	0.032	2020	16×25	J25	0.024	2550
2200	12.5×25	G25	0.032	1880	12.5×25	G25	0.032	1880	12.5×30	G30	0.029	2160	16×31.5	J31	0.020	3040
2200	16×20	J20	0.032	2020	16×25	J25	0.024	2550	16×25	J25	0.024	2550	16×35.5	J35	0.019	3280
2700									12.5×35	G35	0.023	2580	16×35.5	J35	0.019	3280
2700	_	_	_	_	_	_	_	_	16×25	J25	0.024	2550	18×31.5	K31	0.018	3410
3300	16×25	J25	0.024	2550	16×31.5	J31	0.020	3040	12.5×40	G40	0.020	2920	16×40	J40	0.017	3630
3300	18×20	K20	0.029	2320	18×25	K25	0.022	2880	16×31.5	J31	0.020	3040	18×35.5	K35	0.017	3710
4700	16×31.5	J31	0.020	3040	16×35.5 J35 0.019	3280	16×35.5	J35	0.019	3280		K40	0.016	4000		
4700	18×25	K25	0.022	2880	18×31.5	K31	0.018	3410	18×31.5	K31	0.018	3410	18×40	K40	0.016	4000
5600	_	_	_	_	_	-	_	_	16×40	J40	0.017	3630	_	_	_	_
6800	_	_	_	_	_	_	_	_	18×40	K40	0.016	4000	_	_	_	_

Rated voltage (V)	55 (.5)					63 (4E)					80 (1R)				
Rated Item capacitance	!	Size	ESR	Rated ripple current	Case	Size	ESR	Rated ripple current	Case	Size	ESR	Rated ripple current			
(μF)	$\phi D \times L (mm)$	code	(Ω max.)	(mArms)	$\phi D \times L (mm)$	code	(Ω max.)	(mArms)	$\phi D \times L (mm)$	code	(Ω max.)	(mArms)			
220	10×20	F20	0.081	930	_	-	_	_	_	-	_	-			
330	-	-	_	-	-	-	_	_	16×20	J20	0.19	1100			
470	12.5×20	G20	0.057	1170	16×20	J20	0.19	1100	16×25	J25	0.11	1370			
560	-	-	_	-	_	-	_	_	18×25	K25	0.094	1450			
820	12.5×30	G30	0.038	1680	16×31.5	J31	0.080	1790	18×35.5	K35	0.062	2100			
1000	16×25	J25	0.031	1710	16×35.5	J35	0.066	2010	18×40	K40	0.051	2350			
1800	18×35.5	K31	0.025	2670	18×40	K40	0.051	2350	_	-	-	_			
2200	18×35.5	K35	0.022	2900	-	-	_	_	-	-	_	_			

(Note) Rated ripple current : 135°C , 100kHz ; ESR : 20°C , 100kHz