

ELNA**Miniature Aluminum Electrolytic Capacitors RPK series**

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

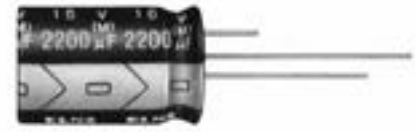
- Guaranteed 5000 hours at 125°C. (4000 hours: 63V to 80V - $\phi 16 \times 20L$)
- Best-suited to smoothing circuits and control circuits for industrial equipment power supplies of which long life and high reliability are required.
- NC terminal added items are lineup for vibration resistance.
(30G guaranteed : 20mmL or less)
- Environmental : GREEN CAP™ , RoHS compliance.

RPK

For vibration



RKD



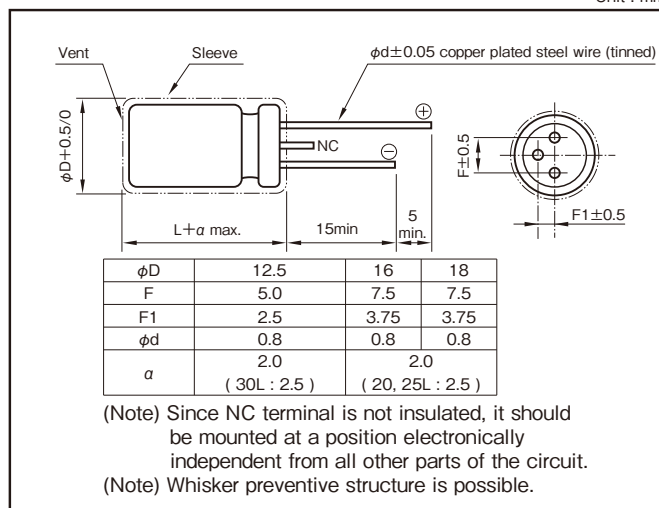
Marking color : White print on a black sleeve

Specifications

Item	Performance								
Category temperature range (°C)	-40 to +125								
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)		10	16	25	35	50	63	80
	tanδ (max.)		0.20	0.16	0.14	0.12	0.10	0.10	0.08
	0.02 is added to every 1000μF increase over 1000μF. (20°C,120Hz)								
Characteristics at high and low temperature	Rated voltage (V)		10	16	25	35	50	63	80
	Impedance ratio (max.)	Z-40°C/Z+20°C	4	3	3	3	3	3	3 (120Hz)
Endurance (125°C) (Applied ripple current)	Test time		5000 hours (4000 hours: 63V to 80V - ϕ16x20L)						
	Leakage current		The initial specified value or less						
	Percentage of capacitance change		Within ±30% of initial value						
	Tangent of the loss angle		300% or less of the initial specified value						
Shelf life (125°C)	Test time : 1000hours ; other items are same as the endurance. Voltage application treatment : According to JIS C5101-4 4.1								
Applicable standards	JIS C5101 - 1, - 4 (IEC 60384 - 1, - 4)								

Outline Drawing

Unit : mm

**Coefficient of Frequency for Rated Ripple Current**

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

Product code system : 16V2200µF (*For general product)

RS*	RPK	222	M	1E	J25	300	DT
Category code	Series code	capacitance code	Cap tol. code	Voltage code	Size code	Lead-forming and packing code	Additional code

- If it is whisker preventive structure, should change "T" into "G".
- 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) Rated capacitance (μF) Item	10 (1L)				16 (1E)				25 (1T)				35 (1G)			
	Case φ D × L (mm)	Size code	ESR (Ω max.)	Rated ripple current (mA rms)	Case φ D × L (mm)	Size code	ESR (Ω max.)	Rated ripple current (mA rms)	Case φ D × L (mm)	Size code	ESR (Ω max.)	Rated ripple current (mA rms)	Case φ D × L (mm)	Size code	ESR (Ω max.)	Rated ripple current (mA rms)
470	—	—	—	—	—	—	—	—	—	—	—	—	12.5×20	G20	0.040	1820
1000	12.5×15	G15	0.059	1380	12.5×20	G20	0.040	1820	12.5×20	G20	0.040	1820	12.5×25	G25	0.032	2400
					16×16	J16	0.044	1930	12.5×25	G25	0.032	2400	16×25	J25	0.024	3100
									16×16	J16	0.044	1930	18×20	K20	0.029	2490
1200	—	—	—	—	—	—	—	—	12.5×20	G20	0.040	1820	12.5×30	G30	0.029	2560
1500	—	—	—	—	—	—	—	—	—	—	—	—	16×20	J20	0.032	2280
													12.5×35	G35	0.023	2970
													16×31.5	J31	0.020	3160
1800	—	—	—	—	—	—	—	—	—	—	—	—	18×25	K25	0.022	3200
													12.5×25	G25	0.032	2400
													16×20	J20	0.032	2280
2200	12.5×25	G25	0.032	2400	12.5×25	G25	0.032	2400	12.5×30	G30	0.029	2560	16×25	J25	0.024	3100
2700	16×20	J20	0.032	2280	16×25	J25	0.024	3100	16×25	J25	0.024	3100	16×35.5	J35	0.019	3590
3300	18×16	K16	0.041	2170	18×20	K20	0.029	2490	18×20	K20	0.029	2490	18×25	K25	0.022	3200
3900	16×25	J25	0.024	3100	16×31.5	J31	0.020	3160	12.5×40	G40	0.020	3600	16×40	J40	0.017	4300
4700	18×20	K20	0.029	2490	18×25	K25	0.022	3200	16×31.5	J31	0.020	3160	18×35.5	K35	0.017	4200
5600	16×31.5	J31	0.020	3160	16×35.5	J35	0.019	3590	18×25	K25	0.022	3200	—	—	—	—
6800	18×25	K25	0.022	3200	18×31.5	K31	0.018	3410	18×35.5	K35	0.017	4200	—	—	—	—

Rated voltage (V) Rated capacitance (μF) Item	50 (1U)				63 (4E)				80 (1R)			
	Case φ D × L (mm)	Size code	ESR (Ω max.)	Rated ripple current (mA rms)	Case φ D × L (mm)	Size code	ESR (Ω max.)	Rated ripple current (mA rms)	Case φ D × L (mm)	Size code	ESR (Ω max.)	Rated ripple current (mA rms)
470	12.5×20	G20	0.070	1500	—	—	—	—	16×25	J25	0.116	1500
560	—	—	—	—	—	—	—	—	18×25	K25	0.100	1600
820	12.5×30	G30	0.038	2150	16×31.5	J31	0.080	1910	18×35.5	K35	0.062	2180
1000	16×25	J25	0.031	2620	16×35.5	J35	0.066	2110	18×40	K40	0.051	2470
1800	18×31.5	K31	0.025	3140	—	—	—	—	—	—	—	—
2200	18×35.5	K35	0.022	3510	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 125°C , 100kHz ; ESR : 20°C , 100kHz