

125°C Use, Long Life Capacitors

GREEN
CAP

Vibration
Resistance

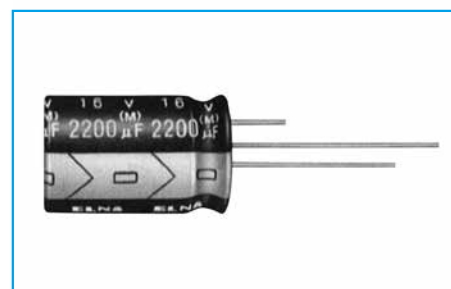
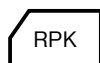
Low
ESR

125°C
5000hours

Anti-
cleaning
solvent

- Guarantees 5000 hours at 125°C.
- 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)

For vibration



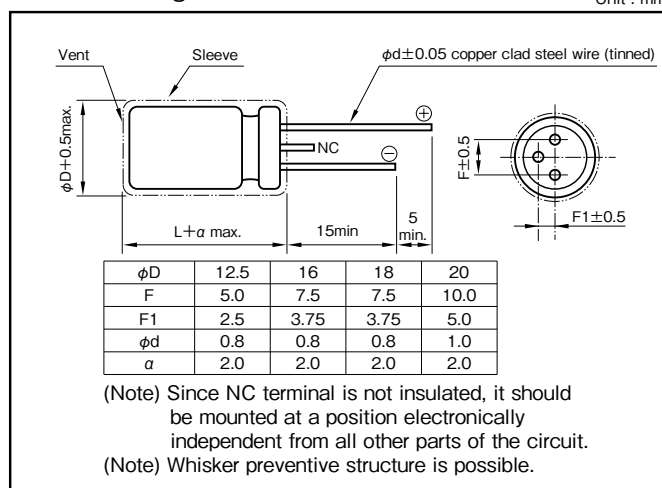
Marking color : White print on a black sleeve

Specifications

Item	Performance									
Category temperature range (°C)	-40 to +125									
Tolerance at rated capacitance (%)	±20 (20°C,120Hz)									
Leakage current (μA)	Less than 0.01CV or 4 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	100
	tanδ (max.)		0.20	0.16	0.14	0.12	0.10	0.10	0.08	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	100
	Impedance ratio (max.)	Z-40°C/Z+20°C	4	3	3	3	3	3	3	3
Endurance (125°C) (Applied ripple current)	Test time		5000 hours							
	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									
Applicable standards	JIS C5101-1, -4 1998 (IEC 60384-1 1992, -4 1985)									

Outline Drawing

Unit : mm



Coefficient of Frequency for Rated Ripple Current

Rated capacitance (µF) \ Frequency (Hz)	50 · 60	120	1k	10k · 100k
220 to 330	0.55	0.65	0.85	1
390 to 1000	0.70	0.75	0.90	1
1200 to 8200	0.80	0.85	0.95	1

Part numbering system (example : 16V2200µF)

RPK	—	16	V	222	M	J6	D#	—	
Series code		Rated voltage symbol		Rated capacitance symbol	Capacitance tolerance symbol	Casing symbol			Taping(Forming) symbol

If it is whisker preventive structure, should change "D#" into "G".

Standard Ratings

Rated voltage (V) Rated capacitance (μF)	Item	10				16				25				35			
		Case	Casing symbol	ESR (Ω max.)	Rated ripple current (mAmps)	Case	Casing symbol	ESR (Ω max.)	Rated ripple current (mAmps)	Case	Casing symbol	ESR (Ω max.)	Rated ripple current (mAmps)	Case	Casing symbol	ESR (Ω max.)	Rated ripple current (mAmps)
		φ D × L (mm)				φ D × L (mm)				φ D × L (mm)				φ D × L (mm)			
470	—	—	—	—	—	—	—	—	—	—	—	—	12.5×20	I5	0.040	1820	
1000	12.5×15	I4	0.059	1380	12.5×20	I5	0.040	1820	12.5×20	I5	0.040	1820	12.5×25	I6	0.032	2400	
					16×16	J4	0.044	1930	12.5×25	I6	0.032	2400	16×25	J6	0.024	3100	
					16×16	J4	0.044	1930	16×16	J4	0.044	1930	18×20	K5	0.029	2490	
1200	—	—	—	—	—	—	—	—	12.5×20	I5	0.040	1820	12.5×30	I7	0.029	2560	
1500	—	—	—	—	—	—	—	—	—	—	—	—	16×20	J5	0.032	2280	
													12.5×35	I8	0.023	2970	
													16×31.5	J7	0.020	3160	
1800	—	—	—	—	—	—	—	—	—	—	—	—	18×25	K6	0.022	3200	
													12.5×25	I6	0.032	2400	
													16×20	J5	0.032	2280	
2200	12.5×25	I6	0.032	2400	12.5×25	I6	0.032	2400	12.5×30	I7	0.029	2560	16×31.5	J7	0.020	3160	
	16×20	J5	0.032	2280	16×25	J6	0.024	3100	16×25	J6	0.024	3100	16×35.5	J8	0.019	3590	
	18×16	K4	0.041	2170	18×20	K5	0.029	2490	18×20	K5	0.029	2490	18×25	K6	0.022	3200	
2700	—	—	—	—	—	—	—	—	12.5×35	I8	0.023	2970	16×35.5	J8	0.019	3590	
									16×25	J6	0.024	3100	18×31.5	K7	0.018	3410	
									18×20	K5	0.029	2490	20×25	L6	0.022	3500	
3300	16×25	J6	0.024	3100	16×31.5	J7	0.020	3160	12.5×40	I9	0.020	3600	16×40	J9	0.017	4300	
	18×20	K5	0.029	2490	18×25	K6	0.022	3200	16×31.5	J7	0.020	3160	18×35.5	K8	0.017	4200	
	—	—	—	—	—	—	—	—	16×35.5	J8	0.019	3590	20×30	L7	0.019	4000	
3900	—	—	—	—	—	—	—	—	18×25	K6	0.022	3200	—	—	—	—	
									16×35.5	J8	0.019	3590	18×40	K9	0.016	4600	
									18×35.5	K8	0.017	4200	20×25	L6	0.022	3500	
4700	16×31.5	J7	0.020	3160	16×35.5	J8	0.019	3590	18×35.5	K8	0.017	4200	20×35.5	L8	0.016	4700	
	18×25	K6	0.022	3200	18×31.5	K7	0.018	3410	20×25	L6	0.022	3500	—	—	—	—	
	—	—	—	—	—	—	—	—	16×40	J9	0.017	4300	—	—	—	—	
5600	—	—	—	—	—	—	—	—	18×35.5	K8	0.017	4200	20×40	L9	0.015	5100	
									20×30	L7	0.019	4000					
									18×40	K9	0.016	4600					
6800	—	—	—	—	—	—	—	—	20×35.5	L8	0.016	4700	—	—	—	—	
8200	—	—	—	—	—	—	—	—	20×40	L9	0.015	5100	—	—	—	—	

Rated voltage (V) Rated capacitance (μF)	Item	50				63				80				100			
		Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current	Case	Casing symbol	ESR	Rated ripple current
		φ D × L (mm)		(Ω max.)	(mArms)	φ D × L (mm)		(Ω max.)	(mArms)	φ D × L (mm)		(Ω max.)	(mArms)	φ D × L (mm)		(Ω max.)	(mArms)
220	—	—	—	—	—	—	—	—	—	—	—	—	16×20	J5	0.11	1580	
330	—	—	—	—	—	—	—	—	16×20	J5	0.11	1790	16×25	J6	0.079	1690	
470	12.5×20	I5	0.057	1500	16×20	J5	0.085	1790	16×25	J6	0.079	2030	16×35.5	J8	0.052	2500	
560	—	—	—	—	—	—	—	—	18×25	K6	0.064	2280	16×40	J9	0.045	2700	
820	12.5×30	I7	0.038	2150	16×31.5	J7	0.053	2330	18×35.5	K8	0.044	2890	18×40	K9	0.039	2880	
1000	16×25	J6	0.031	2620	16×35.5	J8	0.044	2580	18×40	K9	0.039	3210	—	—	—	—	
1800	18×31.5	K7	0.025	3140	18×40	K9	0.032	3210	—	—	—	—	—	—	—	—	
2200	18×35.5	K8	0.022	3510	—	—	—	—	—	—	—	—	—	—	—	—	

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